ACADEMIC FLEXIBILITY

TRIDENT ACADEMY OF TECHNOLOGY (TAT), BHUBANESWAR

CRITERIA – 1

1.2.1: Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

TRIDENT ACADEMY OF TECHNOLOGY (TAT),

BHUBANESWAR-751024

Sl No	ADDON Course offered During the Academic Year	Page No
1	2018-19	3-110
2	2019-20	111-184
3	2020-21	185-341
4	2021-22	342-566
5	2022-23	567-728

Date:04.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Technical Problem Solving with Computational Tools" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 03.09.2018, we are planning to start an add-on course on "Technical Problem Solving with Computational Tools" for B. Tech students from 14.09.2018. The objective of this course is to provide a knowledge, and practical skills needed to apply computational tools to solve various technical and engineering problems. The course will cover multiple software tools such as MATLAB, Python, and simulation tools commonly used in industry.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, CSE)

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Computer Science Engg.

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SYLLABUS

Technical Problem Solving with Computational Tools

Total Lecture Periods: 60 hrs.
Course Objectives:

This course aims to enhance students' technical problem-solving skills using various computational tools like MATLAB, Python, and simulation software. By the end of the course, students will be proficient in applying these tools for engineering analysis, simulations, and real-world problem solving.

MODULES

Module-I: Introduction to Computational Tools [12 periods]

- Overview of computational tools in engineering: MATLAB, Python, Simulink, and more
- Installation and setup of tools
- Basic programming concepts (variables, functions, loops, and conditionals)
- Introduction to MATLAB and Python syntax
- Problem-solving using simple scripts and functions

Module-II: Data Analysis and Visualization [15 periods]

- Working with datasets in MATLAB and Python
- Data preprocessing, cleaning, and transformation
- Visualization techniques: Plotting and customizing graphs (2D, 3D, interactive plots)
- Handling large datasets and performing statistical analysis
- Using libraries like Matplotlib, Pandas, and NumPy (in Python)

Module-III: Numerical Methods and Simulations [18 periods]

- Numerical integration and differentiation
- Solving linear and nonlinear equations using MATLAB and Python
- Monte Carlo simulations for probabilistic problem-solving
- Simulating physical systems and solving engineering problems
- Introduction to finite element analysis (FEA) and computational fluid dynamics (CFD) tools

Module-IV: Advanced Problem Solving and Simulations [15 periods]

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- Optimization techniques for engineering problems
- Signal and image processing using MATLAB
- Simulink for system modeling and simulation
- Advanced Python for engineering simulations (e.g., SciPy, SymPy)
- Case studies: Solving real-world engineering problems using computational tools
- Introduction to cloud-based simulations and big data analysis

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Use MATLAB, Python, and other computational tools for solving engineering problems.
- **CO2**: Analyze and visualize data effectively using appropriate tools and techniques.
- **CO3**: Apply numerical methods to solve engineering problems such as integration, differentiation, and optimization.
- **CO4**: Simulate physical systems using MATLAB, Simulink, and Python.
- **CO5**: Apply advanced computational techniques like machine learning and optimization to real-world problems.
- **CO6**: Work collaboratively on group projects and case studies using various computational tools.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and its assessments.

Suggested Learning Resources

- Books:
    1. "MATLAB for Engineers" by Holly Moore
    2. "Python for Engineers" by John V. Guttag
    3. "Applied Numerical Methods with MATLAB" by Steven C. Chapra
    4. "Numerical Methods for Engineers" by Steven C. Chapra and Raymond P. Canale

S B Parida

(HOD,CSE)

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SCHEDULE

Technical Problem Solving with Computational Tools

Sl No	Date	Time	Course Content
1	14/09/2018	3:00PM-6:00PM	Overview of computational tools in engineering: MATLAB, Python, Simulink, and mor
2	15/09/2018	3:00PM-6:00PM	Installation and setup of tools, Basic programming concepts (variables, functions, loops, conditionals)
3	17/09/2018	3:00PM-6:00PM	MATLAB and Python syntax, Problem-solving using simple scripts and functions.
4	18/09/2018	3:00PM-6:00PM	Working with datasets in MATLAB and Python, Data preprocessing, cleaning, and transformation
5	19/09/2018	3:00PM-6:00PM	Plotting and customizing graphs (2D, 3D, interactive plots) using MATLAB and Python
6	20/09/2018	3:00PM-6:00PM	Handling large datasets, Statistical analysis using Matplotlib, Pandas, and NumPy
7	21/09/2018	3:00PM-6:00PM	Numerical integration and differentiation in MATLAB and Python
8	22/09/2018	3:00PM-6:00PM	Solving linear and nonlinear equations, Monte Carlo simulations.
9	24/09/2018	3:00PM-6:00PM	Simulating physical systems and solving engineering problems using computational tools
10	25/09/2018	3:00PM-6:00PM	Introduction to finite element analysis (FEA)
11	26/09/2018	3:00PM-6:00PM	computational fluid dynamics (CFD) tools.
12	27/09/2018	3:00PM-6:00PM	Signal and image processing techniques using MATLAB
13	28/09/2018	3:00PM-6:00PM	Optimization methods for engineering problems using MATLAB
14	29/09/2018	3:00PM-6:00PM	Optimization methods for engineering problems using Python
15	01/10/2018	3:00PM-6:00PM	System modeling with Simulink
16	02/10/2018	3:00PM-6:00PM	System modeling with , SciPy
17	03/10/2018	3:00PM-6:00PM	System modeling with SymPy

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18	04/10/2018	3:00PM-6:00PM	Solving real-world engineering problems using MATLAB
19	05/10/2018	3:00PM-6:00PM	Solving real-world engineering problems using Simulink
20	06/10/2018	4:00PM-6:00PM	Solving real-world engineering problems using Python
21	08/10/2018	5:00PM-6:00PM	Assessment

S B Parida
(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:07.09.2018

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Technical Problem Solving with Computational Tools " starting from 14.09.2018. Interested students must register on or before 11.09.2018. The course details are as follows:

- Course Name: Technical Problem Solving with Computational Tools
- Instructor Name: S B PARIDA
- Registration Contact: 7894996832

Principal

07/09/18

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Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Bhubaneswar-751024

Date:12.09.2018

To,

The Principal

Trident Academy of Technology,

Patia, Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Technical Problem Solving with Computational Tools".

Respected Sir,

We are going to start a course on " Technical Problem Solving with Computational Tools " from 14.09.2018 and a total of 65 Students have enrolled for this course. This is for your kind information.

S B Parida
(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:08.10.2018

10/10

Technical

ASSESSMENT

Name Of the Student: Pratyush Nayak
Regd No: 1501289027

All Questions Compulsory

Q1: Which of the following is considered a primary input device?
A) Monitor B) Keyboard C) Speaker D) Printer

Q2: What is the full form of URL?
A) Universal Resource Locator B) Uniform Readable Link
C) Unified Reference Label D) Universal Routing Link

Q3: What is the purpose of an operating system?
A) Manage hardware and software resources B) Create databases
C) Design web applications D) Control internet speed

Q4: What is the function of RAM in a computer?
A) Store permanent data B) Execute instructions temporarily
C) Process graphics D) Control external devices

Q5: Which of the following is an example of a system software?
A) Microsoft Word B) Photoshop
C) Windows OS D) Chrome Browser

Q6: What does HTTP stand for?
A) Hyper Text Transfer Protocol B) High-Tech Transfer Process
C) Hyperlink Text Technology Platform D) Hyper Terminal Text Processing

Q7: What is the binary representation of the decimal number 5?
A) 101 B) 110 C) 100 D) 111

Q8: Which of the following is NOT a type of computer network?
A) LAN B) WAN C) MAN D) CPU

Q9: What is the purpose of a compiler?
A) Convert high-level code into machine code B) Edit text files
C) Manage databases D) Control external devices

Q10: What is the function of an IP address?
A) Identify a device on a network
B) Store files permanently
C) Increase computer speed
D) Protect against malware

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 09/18

Subject Code: **Branch:**

Subject: Technical Problems

Sl. No	REGD NO	NAME	26/09	27/09	28/09	29/09	01/10	02/10	03/10			
1	1501289027	SHIVAM KUMAR JHA	11	12	13	14	15	X	16			
2	1501289028	SHUBHAM KUMAR GUPTA	10	11	12	13	14	15	16			
3	1501289029	SURAJ MOHANTY	11	X	12	13	14	15	16			
4	1501289030	P SUNIL KUMAR REDDY	11	12	X	13	14	15	16			
5	1501289031	AMRITA ROY	11	12	X	13	14	15	16			
6	1501289032	SOURABH CHHABADA	11	12	13	14	X	15	16			
7	1501289033	NIBHA KUMARI	11	12	13	14	15	X	16			
8	1501289035	MOHAMMAD SHAHNAWAZ	11	12	X	13	14	15	16			
9	1501289036	MANISH KUMAR	11	12	13	14	X	15	16			
10	1501289037	MEET JOSHI	11	12	13	14	X	15	16			
11	1501289324	ABHISHEK BHOLA	11	X	12	13	14	15	16			
12	1501289325	ABHISHEK MOHAPATRA	11	12	X	13	14	15	16			
13	1501289328	ADITI MOHAPATRA	11	12	13	X	14	15	16			
14	1501289331	AJOY KUMAR MAHAKUD	11	12	13	14	X	15	16			
15	1501289332	AKANKSHA	11	12	13	X	14	15	16			
16	1501289027	SHIVAM KUMAR JHA	10	11	12	13	14	15	16			
17	1501289304	PRATYUSH NAYAK	11	12	X	13	14	15	16			
18	1501289305	RUDRA PRASAD MISHRA	11	12	13	X	14	15	16			
19	1501289306	SAMESH KUMAR RATH	11	12	13	14	15	X	16			
20	1501289307	SANAT KHUNTIA	11	12	13	X	14	15	16			
21	1501289308	SANJIB KUMAR TRIPATHY	11	12	13	14	X	15	16			
22	1501289309	SANTANU KUMAR PRADHAN	11	12	13	14	15	X	16			
23	1501289310	SATYABRATA PADHAN	11	X	12	13	14	15	16			
24	1501289311	SHASWAT SUCHARIT PATTANAYAK	11	12	13	14	X	15	16			
25	1501289312	SNEHASIS SWAIN	11	12	13	14	15	X	16			
26	1501289313	SONU NIGAM DAS	11	12	X	13	14	15	16			
27	1501289314	SOUMYA RANJAN SETHY	11	12	X	13	14	15	16			
28	1501289315	SURAJ KUMAR BEHERA	11	X	12	13	14	15	16			
29	1501289316	SURYAKANT SAHOO	11	12	13	X	14	15	16			
30	1501289317	SUSHREE SOUMYA	11	12	X	13	14	15	16			
35	1501289318	SWAGAT BISWAL	11	12	13	X	14	15	16			
36	1501289319	ABHISHEK SAHOO	11	X	12	13	14	15	16			
37	1501289320	GOUTTAM SAHU	11	12	13	X	14	15	16			

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38	1501289321	PRAKASH KUMAR SAHOO	11	12	13	14	X	15	16			
39	1501289322	REETIKA PRADHAN	11	12	X	13	14	15	16			
40	1501289323	SHRIPATI SAGAR PATTNAYAK	11	12	X	13	14	15	16			
41	1501289024	SHIJAN KUMAR MISHRA	11	12	13	X	14	15	16			
42	1501289025	MANAS KUMAR BAITHARU	11	X	12	13	14	15	16			
43	1501289255	AMANULLAH	10	11	12	13	14	15	16			
44	1501289256	ANUPAMA PANIGRAHI	11	12	X	13	14	15	16			
45	1501289257	ASHISH KUMAR CHOUBEY	11	12	13	14	X	15	16			
46	1501289258	BIBHU PRASAD PATI	11	12	13	14	X	15	16			
47	1501289259	BISHUDDHANANDA DAS	11	X	12	13	14	15	16			
48	1501289260	BM BISWAPRAKASH PARIDA	11	12	13	14	X	15	16			
49	1501289261	DEBASMITA BHATTACHARJEE	11	12	13	14	X	15	16			
50	1501289262	JASHMIN JASASWINI PATRA	11	12	13	14	15	X	16			
51	1501289263	JITENDRA KUMAR DIHUDI	11	X	12	13	14	15	16			
52	1501289265	MANISHA KUMARI	11	X	12	13	14	15	16			
53	1501289266	MANMATH PRADHAN	11	12	13	X	14	15	16			
54	1501289267	MD SHAMS TABREZ HASSAN	11	12	13	X	14	15	16			
55	1501289268	MOTILAL JOSHIRA	11	12	13	14	X	15	16			
56	1501289269	PRAGATI SETHY	11	X	12	13	14	15	16			
57	1501289270	PRAJNA SUSHREESMITA TRIPATHY	11	12	13	X	14	15	16			
58	1501289271	PRAKALPAJEET SAHOO	11	12	13	14	X	15	16			
59	1501289283	ABHIPSA DWIBEDY	11	12	13	X	14	15	16			
60	1501289284	ABHISHEK JENA	11	12	13	14	X	15	16			
61	1501289285	AMARESH NANDAN DAS	11	X	12	13	14	15	16			
62	1501289286	ANSUMAN MALLICK	11	12	13	X	14	15	16			
63	1501289287	CHITTARANJAN SETHI	11	12	13	14	X	15	16			
64	1501289288	SUJIT KUMAR MOHANTA	11	12	13	X	14	15	16			
65	1501289283	ABHIPSA DWIBEDY	11	12	13	14	X	15	16			

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 09/18

Subject Code: **Branch:**

Subject: Technical Problems

Sl. No	REGD NO	NAME	14/09	15/09	17/09	18/09	19/09	20/09	21/09	22/09	24/09	25/09
1	1501289027	SHIVAM KUMAR JHA	1	2	3	4	5	6	7	8	9	10
2	1501289028	SHUBHAM KUMAR GUPTA	1	2	3	X	4	5	6	7	8	9
3	1501289029	SURAJ MOHANTY	1	2	3	4	5	6	7	8	9	10
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8	1501289035	MOHAMMAD SHAHNAWAZ	1	2	3	4	5	6	7	8	9	10
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13	1501289328	ADITI MOHAPATRA	1	2	3	4	5	6	7	8	9	10
14	1501289331	AJOY KUMAR MAHAKUD	1	2	3	4	5	6	7	8	9	10
15	1501289332	AKANKSHA	1	2	3	4	5	6	7	8	9	10
16	1501289027	SHIVAM KUMAR JHA	1	X	2	3	4	5	6	7	8	9
17	1501289304	PRATYUSH NAYAK	1	2	3	4	5	6	7	8	9	10
18	1501289305	RUDRA PRASAD MISHRA	1	2	3	4	5	6	7	8	9	10
19	1501289306	SAMESH KUMAR RATH	1	2	3	4	5	6	7	8	9	10
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27	1501289314	SOUMYA RANJAN SETHY	1	2	3	4	5	6	7	8	9	10
28	1501289315	SURAJ KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
29	1501289316	SURYAKANT SAHOO	1	2	3	4	5	6	7	8	9	10
30	1501289317	SUSHREE SOUMYA	1	2	3	4	5	6	7	8	9	10
35	1501289318	SWAGAT BISWAL	1	2	3	4	5	6	7	8	9	10
36	1501289319	ABHISHEK SAHOO	1	2	3	4	5	6	7	8	9	10
37	1501289320	GOUTTAM SAHU	1	2	3	4	5	6	7	8	9	10

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38	1501289321	PRAKASH KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10
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47	1501289259	BISHUDDHANANDA DAS	1	2	3	4	5	6	7	8	9	10
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53	1501289266	MANMATH PRADHAN	1	2	3	4	5	6	7	8	9	10
54	1501289267	MD SHAMS TABREZ HASSAN	1	2	3	4	5	6	7	8	9	10
55	1501289268	MOTILAL JOSHIRA	1	2	3	4	5	6	7	8	9	10
56	1501289269	PRAGATI SETHY	1	2	3	4	5	6	7	8	9	10
57	1501289270	PRAJNA SUSHREESMITA TRIPATHY	1	2	3	4	5	6	7	8	9	10
58	1501289271	PRAKALPAJEET SAHOO	1	2	3	4	5	6	7	8	9	10
59	1501289283	ABHIPSA DWIBEDY	1	2	3	4	5	6	7	8	9	10
60	1501289284	ABHISHEK JENA	1	2	3	4	5	6	7	8	9	10
61	1501289285	AMARESH NANDAN DAS	1	2	3	4	5	6	7	8	9	10
62	1501289286	ANSUMAN MALLICK	1	2	3	4	5	6	7	8	9	10
63	1501289287	CHITTARANJAN SETHI	1	2	3	4	5	6	7	8	9	10
64	1501289288	SUJIT KUMAR MOHANTA	1	2	3	4	5	6	7	8	9	10
65	1501289283	ABHIPSA DWIBEDY	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 29.08.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Aptitude and Reasoning" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 28.08.2018, we are planning to start a course on "Aptitude and Reasoning" for the B. Tech students. The objective of the course is to enhance students' quantitative aptitude, logical reasoning, and analytical skills, which are crucial for competitive exams and placement opportunities. The course duration and schedule are attached for your approval.

We seek your kind permission to initiate this course from 06.09.2018 and look forward to your favorable response.

Thanking You,

(HOD, MBA)
HOD
MBA

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Aptitude and Reasoning

Total Lecture Periods: 23 hrs.
Course Objectives:

This course aims to build strong analytical and problem-solving skills by covering a wide range of topics in quantitative aptitude and logical reasoning. Students will learn to apply these skills in solving real-life problems, placement exams, and competitive exams such as GATE, GRE, and others.

MODULES

Module-I: Quantitative Aptitude Basics [7 periods]

- Number Systems, HCF and LCM, Fractions and Decimals
- Percentage, Profit and Loss, Simple and Compound Interest
- Time, Speed and Distance, Time and Work
- Ratio and Proportion, Averages, Alligation, Mixture Problems
- Simplification and Approximation

Module-II: Advanced Quantitative Aptitude [6 periods]

- Linear and Quadratic Equations
- Probability, Permutation and Combination
- Allegation, Mensuration
- Sequences and Series (Arithmetic Progression, Geometric Progression, etc.)
- Data Interpretation (Pie charts, Bar graphs, Tables, etc.)

Module-III: Logical Reasoning [5 periods]

- Analytical Reasoning, Directions and Distances
- Blood Relations, Coding-Decoding
- Series Completion, Odd One Out
- Syllogisms, Clocks and Calendars
- Puzzles, Seating Arrangement

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Module-IV: Verbal Reasoning [5 periods]

- Verbal Ability (Vocabulary, Antonyms, Synonyms)
- Reading Comprehension
- Sentence Correction and Completion
- Para Jumbles, Paragraph Completion
- Critical Reasoning, Statement and Assumptions

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Effectively solve quantitative aptitude problems using various techniques.
- **CO2**: Apply logical reasoning in problem-solving scenarios.
- **CO3**: Interpret data and solve complex reasoning puzzles.
- **CO4**: Develop strategies for tackling competitive exams (GATE, GRE, etc.).
- **CO5**: Enhance verbal reasoning and communication skills.
- **CO6**: Work collaboratively on group exercises and improve critical thinking.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required.
2. **Qualifying Marks**: Minimum passing marks in the course is 50%.
3. **Certificate**: A certificate will be awarded upon successful completion of the course and assessment.

Suggested Learning Resources

- **Books**:
    1. "Quantitative Aptitude for Competitive Exams" by R.S. Agarwal
    2. "A Modern Approach to Logical Reasoning" by R.S. Agarwal
    3. "Verbal and Non-Verbal Reasoning" by R.S. Agarwal

P k Nanda
(Course Instructor)

(HOD, MBA)
HOD
MBA

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

APTITUDE AND REASONING

Sl No	Date	Time	Course Content
1	06/09/2018	3:00PM-6:00PM	Number Systems, HCF and LCM, Fractions and Decimals, Percentage
2	07/09/2018	3:00PM-6:00PM	Profit and Loss, Simple and Compound Interest, Time, Speed and Distance, Time and Work
3	08/09/2018	3:00PM-6:00PM	Ratio and Proportion, Averages, Alligation, Mixture Problems, Simplification and Approximation
4	10/09/2018	3:00PM-6:00PM	Linear and Quadratic Equations, Probability, Permutation and Combination, Mensuration
5	11/09/2018	3:00PM-6:00PM	Sequences and Series (AP, GP), Data Interpretation (Pie Charts, Bar Graphs, Tables, etc.)
6	12/09/2018	3:00PM-6:00PM	Analytical Reasoning, Directions and Distances, Blood Relations, Coding-Decoding, Series Completion
7	13/09/2018	4:00PM-6:00PM	Verbal Ability (Vocabulary, Antonyms, Synonyms), Sentence Correction and Completion, Para Jumbles
8	14/09/2018	4:00PM-6:00PM	Paragraph Completion, Reading Comprehension, Critical Reasoning, Statement and Assumptions, Syllogisms
9	15/09/2018	5:00PM-6:00PM	Assessment

P k Nanda
(Course Instructor)

(HOD, MBA)
HOD
MBA

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:31.08.2018

This is to inform all B. Tech students that the department of MBA will start an add-on course on "Aptitude and Reasoning" starting from 6/09/2018. Interested students must register on or before 3/9/2018. The course details are as follows:

- Course Name: Aptitude and Reasoning
- Instructor Name: P K Nanda
- Registration Contact: 9861234765

31/8/2018

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 04.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Aptitude and Reasoning".

Respected Sir,

We are going to start the course on " Aptitude and Reasoning " from 06.09.2018 and a total of 65 Students have enrolled for this course. This is for your kind information.

P k Nanda
(Course Instructor)

(HOD, MBA)
HOD
MBA

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:15.09.2018

Aptitude and Reasoning
ASSESSMENT

10/10

Name Of the Student: Sushree Soumya
Regd No: 1501289317

All Questions Compulsory

Q1: If a train is moving at 60 km/h, how long will it take to travel 180 km?
A) 2 hours B) 3 hours C) 4 hours D) 5 hours

Q2: What is the next number in the series? 2, 4, 8, 16?
A) 24 B) 3 C) 32 D) 40

Q3: If A is the father of B, but B is not the son of A, then what is the relation of B to A?
A) Daughter B) Son C) Nephew D) Cousin

Q4: What is the missing number in the sequence? 5, 10, 20, ?, 80
A) 30 B) 40 C) 50 D) 60

Q5: Find the odd one out: Apple, Mango, Orange, Carrot
A) Apple B) Mango C) Orange D) Carrot

Q6: If ALL = 12, BAT = 22, then CAT =?
A) 24 B) 26 C) 28 D) 30

Q7: What is the angle between the hands of a clock at 3:00?
A) 30° B) 45°
C) 90° D) 60°

Q8: If 5x + 3 = 18, what is x?
A) 2 B) 3
C) 4 D) 5

Q9: If a man walks 5 km north, then 3 km east, then 2 km south, how far is he from his starting point?
A) 4 km B) 5 km
C) 6 km D) 7 km

Q10: What is the missing number in the series? 1, 4, 9, 16, ?, 36
A) 20 B) 25
C) 30 D) 40

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: PRADEEPTA KUMAR NANDA **Month/Year:** 08/2018

Subject Code: **Branch:**

Subject: Aptitude & Reasoning

Sl. No	REGD NO	NAME	06/09	07/09	08/09	10/09	11/09	12/09	13/09	14/09	15/09
1	1501289026	SUBHAM KUMAR	1	2	3	X	4	5	6	7	8
2	1501289289	ABHIJEET BARAL	1	2	3	4	X	5	6	7	8
3	1501289290	ALOK ABINASH	1	2	X	3	4	5	6	7	8
4	1501289291	ANSHUL RAJ	1	2	3	4	X	5	6	7	8
5	1501289292	APU ROUT	1	2	3	4	5	6	X	7	8
6	1501289293	ASHUTOSH SAHOO	1	2	3	X	4	5	6	7	8
7	1501289294	BIBHUDATTA RAJGURU	1	2	3	4	X	5	6	7	8
8	1501289295	BISWANATH MAHAL	1	2	3	X	4	5	6	7	8
9	1501289296	CHINMAYA KUMAR SAHOO	1	X	2	3	4	5	6	7	8
10	1501289297	CHITTARANJAN MOHAPATRA	1	2	3	X	4	5	6	7	8
11	1501289298	DEBADATTA MOHAPATRA	1	2	3	4	X	5	6	7	8
12	1501289299	KIRTI RANJAN SWAIN	1	2	3	X	4	5	6	7	8
13	1501289300	MH SAMEER SEKHAR PATRA	1	2	3	4	X	5	6	7	8
14	1501289301	MOHAN BARIK	1	2	3	X	4	5	6	7	8
15	1501289302	PARTHA SARATHI MOHANTY	1	2	3	4	X	5	6	7	8
16	1501289303	PRATYUSH KUMAR MOHANTY	1	2	X	3	4	5	6	7	8
17	1501289304	PRATYUSH NAYAK	1	2	3	4	X	5	6	7	8
18	1501289305	RUDRA PRASAD MISHRA	1	2	X	3	4	5	6	7	8
19	1501289306	SAMESH KUMAR RATH	1	2	3	4	X	5	6	7	8
20	1501289307	SANAT KHUNTIA	1	2	3	X	4	5	6	7	8
21	1501289308	SANJIB KUMAR TRIPATHY	1	2	3	4	X	5	6	7	8
22	1501289309	SANTANU KUMAR PRADHAN	1	2	3	4	5	6	7	X	8
23	1501289310	SATYABRATA PADHAN	1	2	3	4	X	5	6	7	8
24	1501289311	SHASWAT SUCHARIT PATTANAYAK	1	2	3	4	5	6	X	7	8
25	1501289312	SNEHASIS SWAIN	1	2	3	X	4	5	6	7	8
26	1501289313	SONU NIGAM DAS	1	2	X	3	4	5	6	7	8
27	1501289314	SOUMYA RANJAN SETHY	1	2	3	4	5	6	X	7	8
28	1501289315	SURAJ KUMAR BEHERA	1	2	3	X	4	5	6	7	8
29	1501289316	SURYAKANT SAHOO	1	2	3	4	X	5	6	7	8
30	1501289317	SUSHREE SOUMYA	1	2	X	3	4	5	6	7	8

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35	1501289318	SWAGAT BISWAL	1	2	X	3	4	5	6	7	8	
36	1501289319	ABHISHEK SAHOO	1	X	2	3	4	5	6	7	8	
37	1501289320	GOUTTAM SAHU	1	2	3	X	4	5	6	7	8	
38	1501289321	PRAKASH KUMAR SAHOO	1	2	3	4	5	X	6	7	8	
39	1501289322	REETIKA PRADHAN	1	2	3	X	4	5	6	7	X	
40	1501289323	SHRIPATI SAGAR PATTNAYAK	1	2	X	3	4	5	6	7	8	
41	1501289024	SHIJAN KUMAR MISHRA	1	2	3	4	5	6	X	7	8	
42	1501289025	MANAS KUMAR BAITHARU	1	2	3	X	4	5	6	7	8	
43	1501289255	AMANULLAH	1	2	3	4	5	6	X	7	8	
44	1501289256	ANUPAMA PANIGRAHI	1	2	3	X	4	5	6	7	8	
45	1501289257	ASHISH KUMAR CHOUBEY	1	2	3	4	X	5	6	7	8	
46	1501289258	BIBHU PRASAD PATI	1	2	3	4	5	6	7	X	8	
47	1501289259	BISHUDDHANANDA DAS	1	2	3	X	4	5	6	7	8	
48	1501289260	BM BISWAPRAKASH PARIDA	1	2	3	X	4	5	X	6	7	
49	1501289261	DEBASMITA BHATTACHARJEE	1	2	3	4	5	6	X	7	8	
50	1501289262	JASHMIN JASASWINI PATRA	1	2	3	4	5	6	X	7	8	
51	1501289263	JITENDRA KUMAR DIHUDI	1	2	3	X	4	5	6	7	8	
52	1501289265	MANISHA KUMARI	1	2	3	X	4	5	6	X	7	
53	1501289266	MANMATH PRADHAN	1	2	3	4	X	5	6	7	8	
54	1501289267	MD SHAMS TABREZ HASSAN	1	2	3	4	5	6	X	7	8	
55	1501289268	MOTILAL JOSHIRA	1	2	3	4	5	6	X	7	8	
56	1501289269	PRAGATI SETHY	1	X	2	3	4	5	6	7	8	
57	1501289270	PRAJNA SUSHREESMITA TRIPATHY	1	2	3	4	5	6	7	X	8	
58	1501289271	PRAKALPAJEET SAHOO	1	2	3	X	4	5	6	7	8	
59	1501289283	ABHIPSA DWIBEDY	1	2	3	4	X	5	6	7	8	
60	1501289284	ABHISHEK JENA	1	2	3	X	4	5	6	7	8	
61	1501289285	AMARESH NANDAN DAS	1	2	3	4	5	X	6	7	8	
62	1501289286	ANSUMAN MALLICK	1	2	3	X	4	5	6	7	8	
63	1501289287	CHITTARANJAN SETHI	1	2	X	3	4	5	6	7	8	
64	1501289288	SUJIT KUMAR MOHANTA	1	2	3	X	4	5	6	7	8	
65	1501289283	ABHIPSA DWIBEDY	1	2	3	4	X	5	6	7	8	

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:19.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Mastering Java Programming" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 18.09.2018, we are planning to start a course on "Mastering Java Programming " from 27.09.2018. The objective of this course is to provide a strong foundation in Java, one of the most widely used programming languages, and equip students with the necessary skills to develop real-world applications.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, CSE)

HOD
Computer Science Engg.

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SYLLABUS

Mastering Java Programming

Total Lecture Periods: 30 hrs.
Course Objectives:

This course is designed to provide students with a comprehensive understanding of the Java programming language, covering both basic and advanced concepts. Students will gain hands-on experience in Java development, preparing them for industry-level programming tasks and enhancing their problem-solving abilities. The course will also prepare students for coding interviews, competitive exams, and software development roles.

MODULES

Module-I: Introduction to Java Programming [10 periods]

- Overview of Java and its features
- Setting up the Java development environment (JDK, IDEs)
- Basic syntax, variables, data types, and operators
- Control structures (if-else, switch, loops)
- Functions and methods
- Object-Oriented Programming (OOP) basics: Classes, Objects, and Methods

Module-II: Advanced Java Concepts [7 periods]

- Object-Oriented Programming (OOP) Concepts: Inheritance, Polymorphism, Encapsulation, and Abstraction
- Exception Handling: Try-Catch, Finally, Throw, and Throws
- Java Collections Framework: List, Set, Map, Queue, etc.
- Generics and Iterators
- Multi-threading and Concurrency

Module-III: Java GUI and File I/O [6 periods]

- Introduction to Java Swing for GUI development
- Event handling and GUI components (Buttons, Text Fields, Panels, etc.)
- File I/O (Input/Output streams, File Reader, File Writer)
- Serialization in Java

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Module-IV: Database Connectivity and Advanced Topics [7 periods]

- Introduction to JDBC (Java Database Connectivity)
- Connecting Java applications with databases (MySQL/PostgreSQL)
- CRUD operations using JDBC
- Lambda expressions and Streams API in Java 8
- Introduction to Java Frameworks (Spring, Hibernate)

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Write Java programs using object-oriented principles.
- **CO2**: Understand and apply advanced Java concepts like multi-threading, exception handling, and database connectivity.
- **CO3**: Develop graphical user interfaces (GUIs) using Java Swing.
- **CO4**: Connect Java applications with relational databases using JDBC.
- **CO5**: Solve real-world programming problems using Java's advanced features (e.g., streams, lambdas, etc.).
- **CO6**: Work on projects involving Java and integrate external libraries and frameworks.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificate will be awarded to students who successfully complete the course and assessment.

Suggested Learning Resources

- **Books**:
    1. "Head First Java" by Kathy Sierra and Bert Bates
    2. "Effective Java" by Joshua Bloch
    3. "Java: The Complete Reference" by Herbert Schildt
    4. "Core Java Volume I – Fundamentals" by Cay S. Horstmann

Rahul Ranjan
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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SCHEDULE

Mastering Java Programming

Sl NO	Date	Time	Course Content
1	26/09/2018	3:00PM-6:00PM	Overview of Java and its features, Setting up the Java development environment (JDK, IDEs)
2	27/09/2018	3:00PM-6:00PM	Basic syntax, variables, data types, and operators, Control structures (if-else, switch, loops)
3	29/09/2018	3:00PM-6:00PM	Functions and methods, Classes, Objects, and Methods
4	01/10/2018	3:00PM-6:00PM	Inheritance, Polymorphism, Encapsulation, and Abstraction
5	03/10/2018	3:00PM-6:00PM	Try-Catch, Finally, Throw, and Throws, Java Collections Framework (List, Set, Map, Queue)
6	05/10/2018	3:00PM-6:00PM	Generics, Iterators, Multi-threading, and Concurrency
7	06/10/2018	3:00PM-6:00PM	Java Swing for GUI, Event handling, GUI components (Buttons, Text Fields, Panels, etc.)
8	07/10/2018	3:00PM-6:00PM	Input/Output streams, File Reader, File Writer, Serialization in Java
9	08/10/2018	3:00PM-6:00PM	Basics of JDBC, Connecting Java applications to databases (MySQL/PostgreSQL)
10	09/10/2018	4:00PM-6:00PM	CRUD operations using JDBC
11	10/10/2018	5:00PM-6:00PM	Assessment

Rahul Ranjan
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:23.09.2018

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Mastering Java Programming " starting from 27.09.2018. Interested students must register on or before 25.09.2018. The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Rahul Ranjan
- Registration Contact:9437920600

Principal

Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:26.09.2018

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering Java Programming".

Respected Sir,

We are going to start a course on " Mastering Java Programming " from 27.09.2018 and a total of 52 Students have enrolled for this course. This is for your kind information.

Rahul Ranjan
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:10.10.2018

Java
ASSESSMENT

10/10

Name Of the Student: Alok Kumar
Regd No: 1501289113

All Questions Compulsory

Q1: What is Java mainly used for?
A) Web and application development
B) Image editing
C) Word processing
D) Video streaming

Q2: Which of the following is NOT a primitive data type in Java?
A) int B) float C) string D) boolean

Q3: What is the purpose of the "final" keyword in Java?
A) To define constants
B) To make a variable private
C) To allow method overloading
D) To create new objects

Q4: What is the default value of a boolean variable in Java?
A) true B) false C) 0 D) null

Q5: What is the entry point of a Java program?
A) main() method
B) init() method
C) start() method
D) run() method

Q6: Which keyword is used to create a subclass in Java?
A) extends
B) inherits
C) implements
D) subclass

Q7: Which of the following is NOT a valid access modifier in Java?
A) private
B) protected
C) public
D) static

Q8: What is the purpose of the "super" keyword in Java?
A) To refer to the superclass
B) To declare a new variable
C) To create a new instance
D) To override methods

Q9: Which Java collection allows duplicate elements?
A) HashSet
B) TreeSet
C) ArrayList
D) LinkedHashSet

Q10: What is exception handling used for in Java?
A) Handling runtime errors
B) Improving performance
C) Declaring constants
D) Optimizing memory usage

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Rahul Ranjan **Month/Year:** 9/18

Subject Code: **Branch:**

Subject: Mastering in Java prog

Sl. No	REGD NO	NAME	26/09	27/09	29/09	01/10	03/10	05/10	06/10	07/10	08/10	09/10
1	1501289006	PRACHI NAYAK	1	2	3	4	5	6	7	X	8	9
2	1501289007	NADEEM AZIZ HUSSAIN	1	2	3	4	5	6	7	X	8	9
3	1501289008	UMA SHANKAR PRADHAN	1	2	3	4	X	5	6	7	8	9
4	1501289009	ADITYA KUMAR MOHANTY	1	X	2	3	4	5	6	7	8	9
5	1501289011	RESMA BEHERA	1	2	3	X	4	5	6	7	8	9
6	1501289013	SONALI MISHRA	1	2	3	4	5	6	7	X	8	9
7	1501289014	ABHISEK KUMAR SINGH	1	2	3	4	5	6	X	7	8	9
8	1501289015	APURVA KARN	1	2	3	4	5	6	X	7	8	9
9	1501289016	ANUJ KUMAR PRAJAPATI	1	2	3	X	4	5	6	7	8	9
10	1501289017	RASHINDER SINGH	1	2	3	4	5	6	X	7	8	9
11	1501289018	ABHISEK JENA	1	2	3	4	5	X	6	7	8	9
12	1501289020	CHINMAYEE MEKAP	1	2	3	4	5	6	X	7	8	9
13	1501289021	SANDHYARANI NAYAK	1	2	3	4	X	5	6	7	8	9
14	1501289022	AJAY KUMAR PRADHAN	1	2	3	4	5	6	X	7	8	9
15	1501289023	RAFIKUL HASSAN	1	2	3	4	5	6	7	8	X	9
16	1501289100	A SIBA PATRO	1	X	2	3	4	5	6	7	8	9
17	1501289101	ABDUL SAMAD	1	2	3	4	X	5	6	7	8	9
18	1501289103	ABHISHEK KUMAR	1	2	3	4	5	6	7	X	8	9
19	1501289104	ABHISHEK KUMAR	1	2	3	4	5	6	X	7	8	9
20	1501289105	ABHISHEK KUMAR	1	2	3	X	4	5	6	7	8	9
21	1501289106	ABHISHEK PALAI	1	2	3	4	5	X	6	7	8	9
22	1501289107	ABHISHEK ROUT	1	2	3	4	X	5	6	7	8	9
23	1501289108	ABINASH KUMAR JENA	1	2	3	4	5	6	X	7	8	9
24	1501289109	ADITI MAHATO	1	X	2	3	4	5	6	7	8	9
25	1501289110	AISHWARYA	1	2	3	4	5	6	7	8	9	X
26	1501289111	AISHWARYA NISHIPADMA NAYAK	1	2	3	X	4	5	6	7	8	9
27	1501289112	AJ LOREN	1	2	3	4	X	5	6	7	8	9
28	1501289113	ALOK KUMAR	1	2	3	4	5	X	6	7	8	9
29	1501289114	AMAN	1	2	3	4	5	6	X	7	8	9
30	1501289115	AMAN ANUPAM RAY	1	2	3	4	5	6	X	7	8	9
31	1501289116	AMAN KUMAR	1	2	3	4	5	X	6	7	8	9
32	1501289118	AMIT KUMAR	1	2	3	4	X	5	6	7	8	9
33	1501289119	AMRITA PRITAM HOTA	1	X	2	3	4	5	6	7	8	9
34	1501289120	ANKIT KUMAR	1	2	3	X	4	5	6	7	8	9

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Sl. No	REGD NO	NAME										
35	1501289006	PRACHI NAYAK	1	2	3	4	X	5	6	7	8	9
36	1501289007	NADEEM AZIZ HUSSAIN	1	2	3	4	X	5	6	7	8	9
37	1501289008	UMA SHANKAR PRADHAN	1	2	X	3	4	5	6	7	8	9
38	1501289009	ADITYA KUMAR MOHANTY	1	2	X	3	4	5	6	7	8	9
39	1501289011	RESMA BEHERA	1	2	3	4	X	5	6	7	8	9
40	1501289013	SONALI MISHRA	1	2	3	X	4	5	6	7	8	9
41	1501289014	ABHISEK KUMAR SINGH	1	2	3	4	X	5	6	7	8	9
42	1501289015	APURVA KARN	1	2	3	X	4	5	6	7	8	9
43	1501289016	ANUJ KUMAR PRAJAPATI	1	2	X	3	4	5	6	7	8	9
44	1501289017	RASHINDER SINGH	1	X	2	3	4	5	6	7	8	9
45	1501289018	ABHISEK JENA	1	2	3	X	4	5	6	7	8	9
46	1501289020	CHINMAYEE MEKAP	1	2	3	X	4	5	6	7	8	9
47	1501289021	SANDHYARANI NAYAK	1	2	3	4	5	X	6	7	8	9
48	1501289022	AJAY KUMAR PRADHAN	1	2	3	4	X	5	6	7	8	9
49	1501289023	RAFIKUL HASSAN	1	2	3	X	4	5	6	7	8	9
50	1501289100	A SIBA PATRO	1	X	2	3	4	5	6	7	8	9
51	1501289101	ABDUL SAMAD	1	2	3	X	4	5	6	7	8	9

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: RAHUL Ranjan **Month/Year:** 9/18

Subject Code: **Branch:**

Subject: Mastering in Java prog

Sl. No	REGD NO	NAME	10/10									
1	1501289006	PRACHI NAYAK	10									
2	1501289007	NADEEM AZIZ HUSSAIN	10									
3	1501289008	UMA SHANKAR PRADHAN	10									
4	1501289009	ADITYA KUMAR MOHANTY	10									
5	1501289011	RESMA BEHERA	10									
6	1501289013	SONALI MISHRA	10									
7	1501289014	ABHISEK KUMAR SINGH	10									
8	1501289015	APURVA KARN	10									
9	1501289016	ANUJ KUMAR PRAJAPATI	10									
10	1501289017	RASHINDER SINGH	10									
11	1501289018	ABHISEK JENA	10									
12	1501289020	CHINMAYEE MEKAP	10									
13	1501289021	SANDHYARANI NAYAK	10									
14	1501289022	AJAY KUMAR PRADHAN	10									
15	1501289023	RAFIKUL HASSAN	10									
16	1501289100	A SIBA PATRO	10									
17	1501289101	ABDUL SAMAD	10									
18	1501289103	ABHISHEK KUMAR	10									
19	1501289104	ABHISHEK KUMAR	10									
20	1501289105	ABHISHEK KUMAR	10									
21	1501289106	ABHISHEK PALAI	10									
22	1501289107	ABHISHEK ROUT	10									
23	1501289108	ABINASH KUMAR JENA	10									
24	1501289109	ADITI MAHATO	10									
25	1501289110	AISHWARYA	10									
26	1501289111	AISHWARYA NISHIPADMA NAYAK	10									
27	1501289112	AJ LOREN	10									
28	1501289113	ALOK KUMAR	10									
29	1501289114	AMAN	10									
30	1501289115	AMAN ANUPAM RAY	10									
31	1501289116	AMAN KUMAR	10									
32	1501289118	AMIT KUMAR	10									
33	1501289119	AMRITA PRITAM HOTA	10									
34	1501289120	ANKIT KUMAR	10									

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Sl. No	REGD NO	NAME										
35	1501289006	PRACHI NAYAK	16									
36	1501289007	NADEEM AZIZ HUSSAIN	10									
37	1501289008	UMA SHANKAR PRADHAN	10									
38	1501289009	ADITYA KUMAR MOHANTY	10									
39	1501289011	RESMA BEHERA	10									
40	1501289013	SONALI MISHRA	10									
41	1501289014	ABHISEK KUMAR SINGH	10									
42	1501289015	APURVA KARN	10									
43	1501289016	ANUJ KUMAR PRAJAPATI	10									
44	1501289017	RASHINDER SINGH	10									
45	1501289018	ABHISEK JENA	10									
46	1501289020	CHINMAYEE MEKAP	10									
47	1501289021	SANDHYARANI NAYAK	10									
48	1501289022	AJAY KUMAR PRADHAN	10									
49	1501289023	RAFIKUL HASSAN	10									
50	1501289100	A SIBA PATRO	10									
51	1501289101	ABDUL SAMAD	10									

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:23.08.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering MATLAB Programming through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 22.08.2018, we are planning to start a course "Mastering MATLAB Programming through Guided Problem Solving" from 07.09.2018. The objective of the course is to give fundamental knowledge of programming, numerical computing, and data visualization to our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering MATLAB Programming through Guided Problem Solving

Total Lecture Periods: 30hrs

Course Objectives:

This course aims to enhance students proficiency in MATLAB programming through guided problem-solving exercises. It provides the skills to perform numerical computations, data analysis, and graphical visualizations while solving real-world engineering and scientific problems.

MODULE-I: Introduction to MATLAB Programming [6 periods]

- **Topics:** Overview of MATLAB, environment setup, variables, data types, and basic operations.

MODULE-II: Data Analysis and Visualization [6 periods]

- **Topics:** Handling datasets, plotting 2D and 3D graphs, and using toolboxes for data processing.

MODULE-III: Numerical Computing [8 periods]

- **Topics:** Solving linear algebra problems, differential equations, optimization, and integration using MATLAB.

MODULE-IV: Applications and Case Studies [10 periods]

- **Topics:** Real-world applications of MATLAB in signal processing, control systems, and image processing.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand Matlab basics and apply them to problem-solving.
CO2: Perform data analysis and create effective visualizations.
CO3: Use Matlab to solve numerical problems in engineering and science.
CO4: Develop and debug Matlab scripts for complex computations.
CO5: Integrate Matlab applications with real-world scenarios.
CO6: Collaborate on group projects utilizing Matlab for simulations and analysis.

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Bhubaneswar-751024

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. "MATLAB for Engineers" by Holly Moore
2. "MATLAB: A Practical Introduction to Programming and Problem Solving" by Stormy Attaway

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering MATLAB Programming through Guided Problem Solving

Sl No	Date	Time	Course Content
1	07.09.2018	3:00 PM-6:00	Overview of Matlab and environment setup
2	08. 09.2018	3:00 PM-6:00 PM	Variables, data types, and basic operations
3	10. 09.2018	3:00 PM-6:00 PM	Handling datasets and data processing
4	11. 09.2018	3:00 PM-6:00 PM	Plotting 2D and 3D graphs in Matlab
5	12. 09.2018	3:00 PM-6:00 PM	Solving linear algebra problems and differential equations
6	13. 09.2018	3:00 PM-6:00 PM	Optimization using Matlab
7	14. 09.2018	3:00 PM-6:00 PM	Integration using Matlab
8	15. 09.2018	3:00 PM-6:00 PM	Real-world applications in Matlab
9	17. 09.2018	3:00 PM-6:00 PM	Matlab applications
10	18. 09.2018	4:00 PM-6:00 PM	Optimization and integration using Matlab
11	19. 09.2018	5:00 PM-6:00 PM	Assessment

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:24.08.2018

This is to inform all B. Tech students that the department of ETC will start an add-on course on " MATLAB Programming " starting from 07.09.2018. Interested students must register on or before 04.09.2018. The course details are as follows:

- Course name: Mastering MATLAB Programming through Guided Problem Solving
- Instructor name: Prasanta Mohanty
- Concerned person for Registration: Prasant Mohanty

Principal 24/8/18

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:05.09.2019

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering MATLAB Programming through Guided Problem Solving ".

Respected Sir,

We are going to start a course on " Mastering MATLAB Programming through Guided Problem Solving " from 07.09.2019 and a total of 30 Students have enrolled for this course. This is for your kind information.

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:23.09.2019

MATLAB PROGRAMMING
ASSESSMENT

Name Of the Student: Pranu
Regd No: 1501[illegible]

09/10

All Questions Compulsory

Q1: What does MATLAB stand for?
A) Machine Language Table B) Matrix Laboratory
C) Math Library D) Modular Algorithm Tool

Q2: Which symbol is used for element-wise multiplication in MATLAB?
A) * B) .* C) & D) /

Q3: Which function is used to create a 3D plot in MATLAB?
A) plot3() B) surf() C) bar3() D) All of the above

Q4: In MATLAB, what does the command clc do?
A) Closes MATLAB B) Clears the command window
C) Clears all variables D) Creates a new script

Q5: How do you create a matrix of zeros in MATLAB?
A) zeros(m, n) B) zeros([m, n])
C) zero(m, n) D) clear(m, n)

Q6: What is the default data type for numerical values in MATLAB?
A) integer B) double C) float D) char

Q7: What function is used to find the size of a matrix in MATLAB?
A) size() B) length() C) dim() D) matrix_size()

Q8: How can you generate random numbers in MATLAB?
A) random() B) rand() C) randgen() D) randi()

Q9: What does the MATLAB command subplot(2,2,1) do?
A) Creates a 2x2 figure grid and selects the first plot
B) Creates a figure with two subplots
C) Splits the figure into two halves
D) Joins two subplots into one

Q10: How do you save a MATLAB workspace?
A) save work space.mat B) store workspace
C) keep workspace D) workspace save

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prasant Ku. Mohanty

Month/Year: Aug-2021

Subject Code:

Branch:

Subject: Mastering MATLAB programming through guided problem solving

Sl. No	REGD NO	NAME	07/09	08/09	10/09	11/09	12/09	13/09	14/09	15/09	17/09	18/09
1	1501289180	PRANAV	1	2	3	4	5	6	7	X	8	9
2	1501289181	PRANAV K DAS	1	2	3	4	X	5	6	7	8	9
3	1501289182	PRASMITA MOHANTY	1	2	3	4	X	5	6	7	8	9
4	1501289183	PRIYANKA PRIYADARSANI JENA	1	2	X	3	4	5	6	7	8	9
5	1501289184	PRIYANKA PRIYADARSHINI PRADHAN	X	1	2	3	4	5	6	7	8	9
6	1501289185	PURUSOTTAM SAHOO	1	2	3	4	X	5	6	7	8	9
7	1501289186	RABINARAYAN SAHOO	1	2	3	4	5	6	X	7	8	9
8	1501289187	RAHUL RAJ	1	2	3	X	4	5	6	7	X	8
9	1501289188	RAJASWINI KUND	1	2	3	4	5	6	7	8	X	9
10	1501289189	RAKESH KUMAR DASH	1	2	3	4	X	5	6	7	8	9
11	1501289190	RAKESH KUMAR MOHAPATRA	1	2	3	4	5	X	6	7	8	9
12	1501289191	RAKSHIT CHOUDHARY	1	X	2	3	4	5	6	7	8	9
13	1501289192	RAMAN SHRESTHA	1	2	3	X	4	5	6	7	8	9
14	1501289193	RAMESHWAR NATH PANDEY	X	1	2	3	4	5	6	7	8	9
15	1501289194	RICHA	1	2	3	4	5	6	X	7	8	9
16	1501289195	RIMA ROY	1	2	3	4	5	6	7	X	8	9
17	1501289196	RISHABH AGRAWAL	1	2	3	4	5	6	X	7	8	9
18	1501289197	RISHAV KUMAR	1	X	2	3	4	5	6	7	8	9
19	1501289198	ROHIT SRIVASTAVA	1	2	3	4	X	5	6	7	8	9
20	1501289199	ROJALIN DWIVEDY	1	2	3	4	5	6	X	7	8	9
21	1501289200	SAIKRISHNA SWAIN	1	2	3	4	5	6	7	8	X	9
22	1501289201	SAMBHASIS JENA	X	1	2	3	4	5	6	7	8	9
23	1501289202	SAMBIT KUMAR PATI	1	2	3	X	4	5	6	7	8	9
24	1501289109	ADITI MAHATO	1	2	3	4	5	6	7	8	X	9
25	1501289110	AISHWARYA	1	2	3	4	5	X	6	7	8	9
26	1501289111	AISHWARYA NISHIPADMA NAYAK	X	1	2	3	4	5	6	7	8	9
27	1501289112	AJ LOREN	1	2	3	4	5	6	7	X	8	9
28	1501289113	ALOK KUMAR	1	2	3	4	5	6	7	8	X	9

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Trident Academy of Technology
Bhubaneswar-751024

29	1501289114	AMAN	1	2	3	4	5	6	X	7	8	9
30	1501289115	AMAN ANUPAM RAY	1	2	3	4	5	6	7	X	8	9

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prasant ku. mohanty

Month/Year: Aug -2018

Subject Code:

Branch:

Subject: mastering MATLAB programming through Guided problem solving

Sl. No	REGD NO	NAME	19/09									
1	1501289180	PRANAV	10									
2	1501289181	PRANAV K DAS	10									
3	1501289182	PRASMITA MOHANTY	10									
4	1501289183	PRIYANKA PRIYADARSANI JENA	10									
5	1501289184	PRIYANKA PRIYADARSHINI PRADHAN	10									
6	1501289185	PURUSOTTAM SAHOO	10									
7	1501289186	RABINARAYAN SAHOO	10									
8	1501289187	RAHUL RAJ	10									
9	1501289188	RAJASWINI KUND	10									
10	1501289189	RAKESH KUMAR DASH	10									
11	1501289190	RAKESH KUMAR MOHAPATRA	10									
12	1501289191	RAKSHIT CHOUDHARY	10									
13	1501289192	RAMAN SHRESTHA	10									
14	1501289193	RAMESHWAR NATH PANDEY	10									
15	1501289194	RICHA	10									
16	1501289195	RIMA ROY	10									
17	1501289196	RISHABH AGRAWAL	10									
18	1501289197	RISHAV KUMAR	10									
19	1501289198	ROHIT SRIVASTAVA	10									
20	1501289199	ROJALIN DWIVEDY	10									
21	1501289200	SAIKRISHNA SWAIN	10									
22	1501289201	SAMBHASIS JENA	10									
23	1501289202	SAMBIT KUMAR PATI	10									
24	1501289109	ADITI MAHATO	10									
25	1501289110	AISHWARYA	10									
26	1501289111	AISHWARYA NISHIPADMA NAYAK	10									
27	1501289112	AJ LOREN	10									
28	1501289113	ALOK KUMAR	10									

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Bhubaneswar-751024

29	1501289114	AMAN	10									
30	1501289115	AMAN ANUPAM RAY	10									

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 10.08.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering CATIA for Engineering Design" for B. Tech students

Respected Sir,

As per our departmental meeting held on 09.08.2018, we are planning to start a course titled "Mastering CATIA for Engineering Design" from 18.08.2018. The objective of this course is to provide students with foundational and advanced knowledge of CATIA, focusing on 3D modelling, assembly design, surface modelling, and real-world engineering applications. The course aims to equip our students with practical CAD skills that are essential for product design and engineering analysis.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, Mech)

HOD
Mechanical Engineering

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering CATIA for Engineering Design

Total Lecture Periods: 30 hrs

Course Objectives:

- This course is designed to enhance students' proficiency in CATIA software through hands-on, guided exercises. Students will gain a solid foundation in 3D modelling and learn how to apply CATIA tools for engineering design, product development, and simulation.

MODULES

Module-I: Introduction to CATIA and Basic Sketching [8 periods]

- Overview of CATIA and its capabilities
- Understanding the CATIA interface and workbenches
- Basic sketching tools and constraints
- Creating and modifying sketches
- Geometrical constraints and dimensioning

Module-II: Part Design and Solid Modeling [8 periods]

- Introduction to Part Design workbench
- Creating 3D models using extrusion and revolution techniques
- Boolean operations and feature-based modeling
- Fillets, chamfers, patterns, and shelling
- Design modifications and parametric modeling

Module-III: Assembly Design and Surface Modeling [6 periods]

- Introduction to Assembly workbench
- Assembling components and defining constraints
- Exploded views and bill of materials (BOM)
- Surface modeling basics and advanced surface design
- Freeform surface creation and editing

Module-IV: Drafting, Simulation, and Applications [8 periods]

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- Drafting and detailing in CATIA
- Creating engineering drawings with dimensions and annotations
- Introduction to Finite Element Analysis (FEA) in CATIA
- Motion simulation and kinematic analysis
- Industry case studies and project-based learning

Course Outcomes:

Upon successful completion of the course, students will be able to:

- CO1: Understand the core functionalities of CATIA and its applications in engineering design.
- CO2: Develop 2D sketches and convert them into 3D models using solid modeling techniques.
- CO3: Assemble multiple components with appropriate constraints.
- CO4: Utilize surface modeling techniques for complex product designs.
- CO5: Generate detailed engineering drawings and annotations.
- CO6: Apply CATIA tools for basic simulations and real-world engineering projects.

Evaluation Process:

1. **Attendance:** A minimum of 75% attendance is mandatory.
2. **Qualifying Marks:** A minimum of 50% marks is required to pass the course.
3. **Certification:** Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods:**
    - **Assignments:** Regular exercises on 3D modeling and drafting.
    - **Project:** A final project demonstrating the student's ability to design a real-world engineering product.
    - **Exams:** A practical test at the end of the course to assess design proficiency.

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Bhubaneswar-751024

Learning Resources:

Suggested Books:

1. "CATIA V5-6R2018 Basics" by Tutorial Books
2. "CATIA V5 Workbook" by Richard Cozzens
3. "CATIA V5 Design Fundamentals" by W. Brian Rowe
4. "Engineering Design with CATIA V5" by Planchard & Planchard

Sambit Mohanty

(Course Instructor)

(HOD, Mech)

HOD
Mechanical Engineering

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering CATIA for Engineering Design

Sl No	Date	Time	Course Content
1	18/08/2018	3:00 PM - 6:00 PM	Overview of CATIA and its capabilities, user interface
2	20/08/2018	3:00 PM - 6:00 PM	Basic sketching tools, constraints, and dimensioning
3	21/08/2018	3:00 PM - 6:00 PM	Creating 3D models using extrusion and revolution
4	22/08/2018	3:00 PM - 6:00 PM	Boolean operations, fillets, chamfers, and patterns
5	23/08/2018	3:00 PM - 6:00 PM	Assembly design and constraints
6	24/08/2018	3:00 PM - 6:00 PM	Surface modelling techniques
7	25/08/2018	3:00 PM - 6:00 PM	Drafting and detailing in CATIA
8	27/08/2018	3:00 PM - 6:00 PM	Introduction to simulation and FEA
9	28/08/2018	3:00 PM - 6:00 PM	Project discussions and hands-on assignments
10	29/08/2018	4:00 PM - 6:00 PM	3D models using extrusion and revolution
11	29/08/2018	5:00 PM - 6:00 PM	Assessment

Sambit Mohanty

(Course Instructor)

(HOD, Mech)

HOD
Mechanical Engineering

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-12/08/2018

This is to inform all the students of B.Tech that the department of Mechanical will start an add-on course on "Mastering CATIA for Engineering Design" starting from 18.08. 2018.All interested students are required to register on or before 16.08.2018.

Course Name: Mastering CATIA for Engineering Design
Instructor Name: Sambit Mohanty
Registration Contact: Sambit Mohanty

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Boards

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 17.08.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Number of Students Enrolled for the Addon Course ""Mastering CATIA for Engineering Design".

Respected Sir,

We are going to start an add-on course on "Mastering CATIA for Engineering Design" from 18.08.2018 and a total of 35 Students have enrolled for this course. This is for your kind information

Sambit Mohanty

(Course Instructor)

(HOD, Mech)

HOD
Mechanical Engineering

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:29.08.2018

CATIA
ASSESSMENT

10/10

Name Of the Student: Anu Rout
Regd No: 1501289292

All Questions Compulsory

Q1: What is CATIA primarily used for?
A) Graphic design B) 3D CAD modeling
C) Video editing D) Data analysis

Q2: What does CATIA stand for?
A) Computer-Aided Three-Dimensional Interactive Application
B) Computer-Aided Testing and Inspection Application
C) Computer-Aided Technology for Industrial Applications
D) Computerized Automated Tool for Interactive Assembly

Q3: Which module in CATIA is used for creating parametric 3D models?
A) Sketcher B) Part Design
C) Assembly Design D) Wireframe & Surface Design

Q4: Which of the following file formats is native to CATIA?
A) .dwg B) .stp C) .catpart D) .iges

Q5: Which command is used to create a new sketch in CATIA?
A) Sketch B) New C) Part Design D) Draft

Q6: How can you constrain a sketch in CATIA?
A) Using Geometrical and Dimensional constraints B) By drawing freehand
C) By using the Eraser tool D) By enabling Auto-Constraints

Q7: What is the function of the 'Pad' feature in CATIA?
A) Extrudes a 2D sketch into a 3D object B) Creates a 2D sketch
C) Merges two surfaces D) Adds material to an assembly

Q8: Which environment is used for sheet metal design in CATIA?
A) Part Design B) Drafting C) Assembly D) Sheet Metal Design

Q9: Which command is used to combine multiple parts into a single assembly?
A) Sketcher B) Assembly Design
C) Surface Modeling D) Boolean Operations

Q10: What does the 'Fillet' command do in CATIA?
A) Creates a rounded edge
B) Creates a sharp corner
C) Splits a solid
D) Merges surfaces

Amulit Mohanty

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sambit Mohanty

Month/Year: Aug, 2018

Subject Code:

Branch:

Subject: Mastering CATIA FOR Engineering Design

Sl. No	REGD NO	NAME	18/08	20/08	21/08	22/08	23/08	24/08	25/08	27/08	28/08	29/08
1	1501289026	SUBHAM KUMAR	1	2	3	4	5	6	7	8	x	9
2	1501289289	ABHIJEET BARAL	1	2	x	3	4	5	6	7	8	9
3	1501289290	ALOK ABINASH	x	1	2	3	4	5	x	6	7	8
4	1501289291	ANSHUL RAJ	1	2	3	x	4	5	6	7	8	9
5	1501289292	APU ROUT	1	2	3	4	x	5	6	7	8	9
6	1501289293	ASHUTOSH SAHOO	1	2	x	3	4	5	6	7	8	9
7	1501289294	BIBHUDATTA RAJGURU	1	2	3	4	5	x	6	7	8	9
8	1501289295	BISWANATH MAHAL	x	1	2	3	4	5	6	7	8	9
9	1501289296	CHINMAYA KUMAR SAHOO	1	x	2	3	4	5	6	7	8	9
10	1501289297	CHITTARANJAN MOHAPATRA	1	2	3	x	4	5	6	7	8	9
11	1501289298	DEBADATTA MOHAPATRA	1	2	3	4	x	5	6	7	8	9
12	1501289299	KIRTI RANJAN SWAIN	1	2	3	4	5	6	7	x	8	9
13	1501289300	MH SAMEER SEKHAR PATRA	1	x	2	3	4	x	5	6	7	8
14	1501289301	MOHAN BARIK	1	2	3	4	5	6	7	8	x	9
15	1501289302	PARTHA SARATHI MOHANTY	1	2	x	3	4	5	6	7	8	9
16	1501289303	PRATYUSH KUMAR MOHANTY	1	2	3	4	x	5	6	7	8	9

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17	1501289304	PRATYUSH NAYAK	1	2	3	4	X	5	6	7	8	9
18	1501289305	RUDRA PRASAD MISHRA	1	2	3	4	5	6	X	7	8	9
19	1501289306	SAMESH KUMAR RATH	X	1	2	3	4	5	6	7	X	8
20	1501289307	SANAT KHUNTIA	1	2	3	4	X	5	6	7	8	9
21	1501289026	SUBHAM KUMAR	1	2	3	4	5	X	6	7	8	9
22	1501289289	ABHIJEET BARAL	1	2	3	4	5	6	X	7	8	9
23	1501289290	ALOK ABINASH	1	X	2	3	4	5	6	7	8	9
24	1501289291	ANSHUL RAJ	1	2	3	4	5	6	7	8	X	9
25	1501289292	APU ROUT	1	2	3	4	X	5	6	7	8	9
26	1501289293	ASHUTOSH SAHOO	X	1	2	3	4	5	6	7	8	9
27	1501289294	BIBHUDATTA RAJGURU	1	2	3	X	4	5	6	7	8	9
28	1501289295	BISWANATH MAHAL	1	2	3	4	5	X	6	7	8	9
29	1501289296	CHINMAYA KUMAR SAHOO	1	2	3	X	4	5	6	7	8	9
30	1501289297	CHITTARANJAN MOHAPATRA	1	2	3	4	X	5	6	7	8	9
35	1501289298	DEBADATTA MOHAPATRA	1	2	3	X	4	5	6	7	8	9

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17	1501289304	PRATYUSH NAYAK	1	2	3	4	x	5	6	7	8	9
18	1501289305	RUDRA PRASAD MISHRA	1	2	3	4	5	6	x	7	8	9
19	1501289306	SAMESH KUMAR RATH	x	1	2	3	4	5	6	7	x	8
20	1501289307	SANAT KHUNTIA	1	2	3	4	x	5	6	7	8	9
21	1501289026	SUBHAM KUMAR	1	2	3	4	5	x	6	7	8	9
22	1501289289	ABHIJEET BARAL	1	2	3	4	5	6	x	7	8	9
23	1501289290	ALOK ABINASH	1	x	2	3	4	5	6	7	8	9
24	1501289291	ANSHUL RAJ	1	2	3	4	5	6	7	8	x	9
25	1501289292	APU ROUT	1	2	3	4	x	5	6	7	8	9
26	1501289293	ASHUTOSH SAHOO	x	1	2	3	4	5	6	7	8	9
27	1501289294	BIBHUDATTA RAJGURU	1	2	3	x	4	5	6	7	8	9
28	1501289295	BISWANATH MAHAL	1	2	3	4	5	x	6	7	8	9
29	1501289296	CHINMAYA KUMAR SAHOO	1	2	3	x	4	5	6	7	8	9
30	1501289297	CHITTARANJAN MOHAPATRA	1	2	3	4	x	5	6	7	8	9
35	1501289298	DEBADATTA MOHAPATRA	1	2	3	x	4	5	6	7	8	9

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Attendance Sheet

Name of the Teacher: Sambit Mohanty **Month/Year:** Aug, 2018

Subject Code: **Branch:**

Subject: Mastering CATIA For Engineering Design

Sl. No	REGD NO	NAME	29/08									
1	1501289026	SUBHAM KUMAR	10									
2	1501289289	ABHIJEET BARAL	10									
3	1501289290	ALOK ABINASH	10									
4	1501289291	ANSHUL RAJ	x									
5	1501289292	APU ROUT	10									
6	1501289293	ASHUTOSH SAHOO	10									
7	1501289294	BIBHUDATTA RAJGURU	10									
8	1501289295	BISWANATH MAHAL	10									
9	1501289296	CHINMAYA KUMAR SAHOO	10									
10	1501289297	CHITTARANJAN MOHAPATRA	x									
11	1501289298	DEBADATTA MOHAPATRA	10									
12	1501289299	KIRTI RANJAN SWAIN	10									
13	1501289300	MH SAMEER SEKHAR PATRA	10									
14	1501289301	MOHAN BARIK	10									
15	1501289302	PARTHA SARATHI MOHANTY	10									
16	1501289303	PRATYUSH KUMAR MOHANTY	10									

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17	1501289304	PRATYUSH NAYAK	10										
18	1501289305	RUDRA PRASAD MISHRA	10										
19	1501289306	SAMESH KUMAR RATH	9										
20	1501289307	SANAT KHUNTIA	10										
21	1501289026	SUBHAM KUMAR	10										
22	1501289289	ABHIJEET BARAL	10										
23	1501289290	ALOK ABINASH	10										
24	1501289291	ANSHUL RAJ	10										
25	1501289292	APU ROUT	10										
26	1501289293	ASHUTOSH SAHOO	10										
27	1501289294	BIBHUDATTA RAJGURU	10										
28	1501289295	BISWANATH MAHAL	10										
29	1501289296	CHINMAYA KUMAR SAHOO	10										
30	1501289297	CHITTARANJAN MOHAPATRA	10										
35	1501289298	DEBADATTA MOHAPATRA	10										

Signature of Teacher

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Principal
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Date: 21.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 20.09.2018, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 29.09.2018. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

P Chanel
(HOD, CSE)
HOD
Computer Science Engg.

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SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 50hrs
Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [13 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [13 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [12periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly

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- Working with large datasets
- Case study: Data analysis of real-world data

Module-IV: Advanced Python Topics [12periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.

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- **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).
- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

P Chand

Padmabati Chand
(Course Instructor)

P Chand

(HOD,CSE)

HOD
Computer Science Engg.

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SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	29.09.2018	3:00 PM - 6:00 PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	01.10.2018	3:00 PM - 6:00 PM	Data types, variables, operators, and control structures (loops and conditionals)
3	03.10.2018	3:00 PM - 6:00 PM	Functions, modules, packages, debugging techniques, and exception handling
4	04.10.2018	3:00 PM - 6:00 PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	05.10.2018	3:00 PM - 6:00 PM	Stacks, Queues, Linked Lists, and their applications
6	06.10.2018	3:00 PM - 6:00 PM	Sorting and searching algorithms, time and space complexity analysis
7	08.10.2018	3:00 PM - 6:00 PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	09.10.2018	3:00 PM - 6:00 PM	Data visualization with Matplotlib
9	10.10.2018	3:00 PM - 6:00 PM	Working with large datasets and a case study on real-world data analysis
10	12.10.2018	3:00 PM - 6:00 PM	OOP concepts in Python
11	13.10.2018	3:00 PM - 6:00 PM	Web scraping with Beautiful Soup and Requests
12	15.10.2018	3:00 PM - 6:00 PM	File handling, and regular expressions
13	16.10.2018	3:00 PM - 6:00 PM	Multi-threading, multiprocessing
14	17.10.2018	3:00 PM - 6:00 PM	Introduction to machine learning with Python
15	19.10.2018	3:00 PM - 6:00 PM	Multi-threading, multiprocessing
16	20.10.2018	4:00 PM - 6:00 PM	Introduction to machine learning with Python
17	22.10.2018	4:00 PM - 6:00 PM	File handling, and regular expressions
18	23.10.2018	5:00PM-6:00PM	Assessment

PChand

Padmabati Chand
(Course Instructor)

PChand

(HOD,CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-22.09.2018

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 29.09. 2018. All interested students are required to register on or before 27.09.2018.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Partha Sarthi Mohapatra

Registration Contact: Partha Sarthi Mohapatra

Principal

PRINCIPAL
TRIDENT ACADEMY OF TECHNOLOGY
BHUBANESWAR-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
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Bhubaneswar-751024

Date: 28.09.2018

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 29.09.2018 and a total of 192 Students have enrolled for this course. This is for your kind information.

PChand

Padmabati Chand
(Course Instructor)

PChand

(HOD,CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:23.10.2018

Mastering in Python

ASSESSMENT

09/10

Name Of the Student: Anikat Kumar

Regd No: 1501289720

All Questions Compulsory

Q1: What type of language is Python?
A) Compiled B) Interpreted C) Assembly D) Machine-level

Q2: Which of the following is used to define a block of code in Python?
A) {} (Curly Brackets) B) Indentation
C) begin and end D) Parentheses

Q3: What will be the output of print(10 // 3)?
A) 3.33 B) 3 C) 4 D) Error

Q4: How do you define a function in Python?
A) function func(): B) def func():
C) define func(): D) func():

Q5: What is the correct syntax for an if statement in Python?
A) if x > 5 {} B) if(x > 5): C) if x > 5: D) if x > 5 then

Q6: Which keyword is used to handle exceptions in Python?
A) try B) except C) finally D) All of the above

Q7: What is the output of print(type([]))?
A) list B) tupleC) dictionary D) set

Q8: How do you import a module in Python?
A) include module_name
B) import module_name
C) use module_name
D) require module_name

Q9: What is the correct way to start a while loop in Python?
A) while x > 0 {}
B) while(x > 0)
C) while x > 0:
D) while x > 0 then

Q10: What is the output of print(3 * 'Python')?
A) Python3
B) PythonPythonPython
C) 3Python
D) Error

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Attendance Sheet

Name of the Teacher: Padmabati Cloral **Month/Year:** 09/2018

Subject Code: **Branch:**

Subject:

Sl. No	REGD NO	NAME	29/09	01/10	03/10	04/10	05/10	06/10	08/10	09/10	10/10	12/10
1	1501289006	PRACHI NAYAK	1	2	3	4	5	6	7	8	9	10
2	1501289007	NADEEM AZIZ HUSSAIN	1	2	3	X	4	5	6	7	8	9
3	1501289008	UMA SHANKAR PRADHAN	1	2	3	4	5	6	7	8	9	10
4	1501289009	ADITYA KUMAR MOHANTY	1	2	3	4	X	5	6	7	8	9
5	1501289011	RESMA BEHERA	1	X	2	3	4	5	6	7	8	9
6	1501289013	SONALI MISHRA	1	X	2	3	4	5	6	7	8	9
7	1501289014	ABHISEK KUMAR SINGH	X	1	2	3	4	5	6	7	8	9
8	1501289015	APURVA KARN	X	1	2	3	4	5	6	7	8	9
9	1501289016	ANUJ KUMAR PRAJAPATI	1	2	3	4	5	6	7	8	9	10
10	1501289017	RASHINDER SINGH	1	2	3	X	4	5	6	7	8	9
11	1501289018	ABHISEK JENA	1	2	3	X	4	5	6	7	8	9
12	1501289020	CHINMAYEE MEKAP	1	2	3	4	5	6	7	8	9	10
13	1501289021	SANDHYARANI NAYAK	X	1	2	3	4	5	6	7	8	9
14	1501289022	AJAY KUMAR PRADHAN	1	2	3	4	5	6	7	8	9	10
15	1501289023	RAFIKUL HASSAN	X	1	2	3	4	5	6	7	8	9
16	1501289100	A SIBA PATRO	1	2	3	4	5	6	7	X	8	9
17	1501289101	ABDUL SAMAD	1	2	3	4	5	6	7	8	X	9
18	1501289103	ABHISHEK KUMAR	1	2	3	4	5	6	7	8	9	10
19	1501289104	ABHISHEK KUMAR	1	2	3	4	5	6	7	8	9	10
20	1501289105	ABHISHEK KUMAR	X	1	2	3	4	5	6	7	8	9
21	1501289106	ABHISHEK PALAI	X	1	2	3	4	5	6	7	8	9
22	1501289107	ABHISHEK ROUT	1	2	3	4	5	6	7	8	9	10
23	1501289108	ABINASH KUMAR JENA	1	2	3	4	5	6	7	8	9	10
24	1501289109	ADITI MAHATO	1	X	2	3	4	5	6	7	8	9
25	1501289110	AISHWARYA	1	2	3	4	5	6	7	8	9	X
26	1501289111	AISHWARYA NISHIPADMA NAYAK	1	2	3	4	5	X	6	7	8	9
27	1501289112	AJ LOREN	1	2	3	4	5	6	X	7	8	9
28	1501289113	ALOK KUMAR	1	2	3	4	5	6	7	8	9	10
29	1501289114	AMAN	X	1	2	3	4	5	6	7	8	9
30	1501289115	AMAN ANUPAM RAY	1	2	3	4	5	6	7	8	9	10
35	1501289116	AMAN KUMAR	1	2	3	4	X	5	6	7	8	9
36	1501289118	AMIT KUMAR	1	2	X	3	4	5	6	7	8	9
37	1501289119	AMRITA PRITAM HOTA	X	1	2	3	X	4	5	6	7	8
38	1501289120	ANKIT KUMAR	1	2	3	4	5	6	7	X	X	8

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39	1501289121	ANKITA KUMARI	1	2	3	4	5	6	7	8	9	X
40	1501289122	ANKITA NAYAK	1	2	3	4	5	6	X	7	8	9
41	1501289123	ANKUR	X	1	2	3	4	5	X	6	7	8
42	1501289124	APURV MISHRA	X	1	2	3	4	5	6	7	X	8
43	1501289126	ASHISH KUMAR	X	1	2	3	5	6	7	8	9	10
44	1501289127	ASHISH RAJ	1	2	3	4	5	6	7	8	9	X
45	1501289128	ASHUTOSH MAHAPATRA	1	2	3	X	4	X	5	6	7	8
46	1501289129	ASISH KUMAR MANASINGH	1	2	3	X	4	5	6	7	8	9
47	1501289130	ASMITA KAR	1	2	3	4	5	X	6	7	8	9
48	1501289131	ASWINI PRASAD PUHAN	1	2	3	4	5	X	6	7	8	9
49	1501289132	ATHARV RAJ	1	2	3	X	X	4	5	6	7	8
50	1501289133	ATULYA BHARDWAJ	1	2	X	3	4	5	6	7	8	X
51	1501289143	CHANDRIKA BISWAL	1	2	X	3	4	5	6	7	8	9
52	1501289146	DAMINI PATTANAYAK	1	2	3	4	5	6	7	8	9	10
53	1501289147	DEBAJYOTI KAR	X	1	2	3	4	5	6	7	8	9
54	1501289148	DEBASISH BARIK	X	1	2	3	4	5	6	7	8	9
55	1501289149	DEBASISH PANDA	1	2	3	4	5	6	7	8	9	10
56	1501289150	DEBASMITA SUBHADARSINI	1	2	X	3	4	5	6	7	8	9
57	1501289151	DIBYAJYOTI CHAND	X	1	2	3	4	5	6	7	8	9
58	1501289152	ELLA HARISH KUMAR	1	2	X	X	X	3	4	5	6	7
59	1501289154	GOPAL KUMAR	1	2	3	4	5	6	X	7	8	9
60	1501289155	HARISH CHOUDHURY	1	2	X	3	4	5	6	7	8	9
61	1501289156	HARSH ANAND	1	2	3	4	X	5	6	7	8	9
62	1501289157	JAYA PRAKASH SAHOO	1	2	3	4	5	6	X	7	8	X
63	1501289158	JINI SAMANTARAY	1	2	3	4	5	6	7	8	X	9
64	1501289159	JYOTIRMAYA PANDA	1	2	X	3	4	5	6	7	8	9
65	1501289160	KAJAL SAH	1	2	X	3	4	5	6	7	X	8
66	1501289161	KASTUREE NAYAK	1	2	3	4	5	6	7	X	8	9
67	1501289162	KISHAN RANJAN SAHU	1	2	3	4	5	6	7	8	9	10
68	1501289164	KUNDAN PRADHAN	1	2	3	X	4	5	X	6	7	8
69	1501289165	LAXMIPRIYA NAYAK	1	2	X	3	4	5	6	7	8	9
70	1501289167	LOPAMUDRA PARIDA	1	2	3	X	4	5	6	7	8	9
71	1501289168	MANISHA SINGH	X	1	2	3	4	5	X	6	7	8
72	1501289170	MOHAMMAD AMIN RAJA	X	1	2	3	4	5	6	7	8	9
73	1501289172	MUKTI PRASAD SASMAL	1	2	3	4	5	6	7	8	9	10
74	1501289173	MUSKAN GURU	1	2	3	4	X	5	6	7	8	9
75	1501289174	NIKHIL SINGH	1	2	3	X	4	5	6	7	8	9
76	1501289175	NILAMBAR PATRA	1	2	3	4	5	6	7	8	9	10
77	1501289176	PARTHA SARATHI SAMANTARAY	1	2	X	3	4	5	6	7	8	9
78	1501289177	PAYAL PRIYADARSINI	X	1	2	3	4	5	X	X	6	7
79	1501289178	PINTU KUMAR GORAIN	X	1	2	X	3	4	5	6	7	8
80	1501289179	PRAGYAN PALLAVI MISHRA	X	1	X	2	3	4	5	6	X	7
81	1501289180	PRANAV	X	1	X	2	3	4	5	6	7	8

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82	1501289181	PRANAV K DAS	1	2	3	4	5	X	X	6	7	8
83	1501289182	PRASMITA MOHANTY	1	2	3	4	5	6	X	7	8	9
84	1501289183	PRIYANKA PRIYADARSANI JENA	X	1	2	3	4	X	5	6	7	8
85	1501289184	PRIYANKA PRIYADARSHINI PRADHAN	1	2	3	4	X	5	6	7	X	8
86	1501289185	PURUSOTTAM SAHOO	1	2	X	3	4	5	6	7	8	9
87	1501289186	RABINARAYAN SAHOO	1	2	3	4	X	5	6	7	X	8
88	1501289187	RAHUL RAJ	1	2	3	4	5	6	7	8	9	10
89	1501289188	RAJASWINI KUND	1	2	3	4	5	6	7	8	9	10
90	1501289189	RAKESH KUMAR DASH	1	2	3	4	5	6	7	8	9	X
91	1501289190	RAKESH KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
92	1501289191	RAKSHIT CHOUDHARY	X	1	2	X	3	4	5	6	7	8
93	1501289192	RAMAN SHRESTHA	X	1	2	3	X	4	X	5	6	7
94	1501289193	RAMESHWAR NATH PANDEY	1	2	3	X	4	5	X	6	7	8
95	1501289194	RICHA	1	2	3	4	5	X	6	7	8	9
96	1501289195	RIMA ROY	1	2	3	4	5	6	X	X	7	8
97	1501289143	CHANDRIKA BISWAL	1	2	3	4	5	6	7	8	9	10
98	1501289146	DAMINI PATTANAYAK	1	2	3	4	5	6	7	8	9	X
99	1501289147	DEBAJYOTI KAR	X	1	2	3	4	5	6	7	8	9
100	1501289148	DEBASISH BARIK	X	X	X	X	1	2	3	4	5	6
101	1501289149	DEBASISH PANDA	1	2	3	4	5	6	X	X	7	8
102	1501289150	DEBASMITA SUBHADARSINI	1	2	3	4	5	6	7	8	9	10
103	1501289151	DIBYAJYOTI CHAND	1	2	3	4	5	6	7	8	9	10
104	1501289152	ELLA HARISH KUMAR	1	2	3	X	X	4	5	6	7	8
105	1501289154	GOPAL KUMAR	X	X	1	2	3	4	5	6	7	8
106	1501289155	HARISH CHOUDHURY	1	2	X	3	X	X	X	4	5	6
107	1501289156	HARSH ANAND	1	2	X	3	4	X	5	6	7	8
108	1501289157	JAYA PRAKASH SAHOO	1	2	3	4	5	6	7	8	9	10
109	1501289158	JINI SAMANTARAY	1	2	3	4	5	6	7	8	9	10
110	1501289159	JYOTIRMAYA PANDA	1	2	3	X	X	X	4	5	6	7
111	1501289160	KAJAL SAH	1	2	3	X	4	5	6	7	8	9
112	1501289161	KASTUREE NAYAK	X	1	2	3	4	5	6	7	8	9
113	1501289162	KISHAN RANJAN SAHU	1	2	X	3	4	5	6	7	8	9
114	1501289164	KUNDAN PRADHAN	1	2	X	3	4	5	6	7	8	9
115	1501289165	LAXMIPRIYA NAYAK	X	1	2	3	4	5	6	7	8	9
116	1501289167	LOPAMUDRA PARIDA	X	1	2	3	4	5	6	7	8	9
117	1501289168	MANISHA SINGH	1	2	3	4	5	6	7	8	X	9
118	1501289170	MOHAMMAD AMIN RAJA	1	2	3	4	5	6	7	8	X	9
119	1501289172	MUKTI PRASAD SASMAL	X	1	2	3	4	5	6	X	7	8
120	1501289173	MUSKAN GURU	X	1	2	3	4	5	6	7	X	8
121	1501289174	NIKHIL SINGH	X	X	1	2	3	4	5	6	7	X
122	1501289175	NILAMBAR PATRA	X	1	2	3	4	5	6	7	8	9

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123	1501289176	PARTHA SARATHI SAMANTARAY	1	2	3	4	5	6	7	8	9	10
124	1501289177	PAYAL PRIYADARSINI	1	2	3	X	4	5	6	X	7	8
125	1501289178	PINTU KUMAR GORAIN	1	2	X	3	4	5	6	7	8	9
126	1501289179	PRAGYAN PALLAVI MISHRA	1	2	3	4	5	6	7	8	9	10
127	1501289180	PRANAV	1	2	X	3	4	X	5	6	7	8
128	1501289181	PRANAV K DAS	1	2	3	4	5	6	7	8	9	10
129	1501289182	PRASMITA MOHANTY	X	1	2	3	4	5	6	7	8	9
130	1501289183	PRIYANKA PRIYADARSANI JENA	X	1	2	3	4	5	6	7	8	9
131	1501289184	PRIYANKA PRIYADARSHINI PRADHAN	X	1	2	3	X	4	5	6	7	8
132	1501289185	PURUSOTTAM SAHOO	1	2	3	4	X	5	X	6	7	8
133	1501289186	RABINARAYAN SAHOO	1	2	3	X	4	5	6	X	7	8
134	1501289187	RAHUL RAJ	1	2	X	3	4	5	6	X	7	8
135	1501289188	RAJASWINI KUND	1	2	X	3	4	5	X	6	7	8
136	1501289189	RAKESH KUMAR DASH	1	X	2	3	4	5	6	7	8	9
137	1501289190	RAKESH KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
138	1501289191	RAKSHIT CHOUDHARY	X	1	2	3	4	5	X	6	7	8
139	1501289192	RAMAN SHRESTHA	X	1	2	3	X	4	X	5	6	7
140	1501289193	RAMESHWAR NATH PANDEY	1	2	3	4	5	6	7	8	9	10
141	1501289194	RICHA	X	1	X	X	X	2	3	4	5	6
142	1501289195	RIMA ROY	1	2	3	4	5	X	6	7	8	9
143	1501289006	PRACHI NAYAK	1	2	3	X	4	5	6	X	7	8
144	1501289007	NADEEM AZIZ HUSSAIN	X	1	2	3	4	X	5	6	7	8
145	1501289008	UMA SHANKAR PRADHAN	1	2	3	4	5	6	7	8	9	10
146	1501289009	ADITYA KUMAR MOHANTY	X	1	2	3	4	5	6	X	X	7
147	1501289011	RESMA BEHERA	1	2	3	X	4	5	6	X	7	8
148	1501289013	SONALI MISHRA	1	2	3	4	5	6	X	7	8	9
149	1501289014	ABHISEK KUMAR SINGH	1	2	3	X	4	5	6	X	7	8
150	1501289015	APURVA KARN	1	2	3	X	4	5	6	X	7	8
151	1501289016	ANUJ KUMAR PRAJAPATI	1	2	3	4	5	6	7	8	9	X
152	1501289017	RASHINDER SINGH	1	2	3	X	4	5	6	7	X	8
153	1501289018	ABHISEK JENA	1	2	3	4	X	5	6	7	8	X
154	1501289020	CHINMAYEE MEKAP	1	2	3	X	4	5	6	7	8	9
155	1501289021	SANDHYARANI NAYAK	1	2	3	4	5	6	7	8	9	10
156	1501289022	AJAY KUMAR PRADHAN	1	2	3	4	5	6	7	8	9	10
157	1501289023	RAFIKUL HASSAN	1	2	3	4	5	X	X	6	7	8
158	1501289100	A SIBA PATRO	1	2	3	4	5	X	X	6	7	8
159	1501289101	ABDUL SAMAD	1	2	3	4	X	5	6	7	8	9
160	1501289103	ABHISHEK KUMAR	X	1	2	X	3	4	5	6	7	X
161	1501289104	ABHISHEK KUMAR	X	1	2	X	3	4	5	6	7	8
162	1501289105	ABHISHEK KUMAR	X	1	2	3	4	5	6	7	8	9
163	1501289106	ABHISHEK PALAI	1	2	3	4	5	6	7	8	9	X

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164	1501289107	ABHISHEK ROUT	1	2	3	4	5	6	7	8	9	10
165	1501289108	ABINASH KUMAR JENA	1	2	3	4	5	6	7	8	9	10
166	1501289109	ADITI MAHATO	X	X	X	X	1	2	3	4	5	6
167	1501289110	AISHWARYA	1	2	3	4	5	6	7	8	X	9
168	1501289111	AISHWARYA NISHIPADMA NAYAK	1	2	X	X	8	4	5	6	7	8
169	1501289112	AJ LOREN	1	2	3	4	5	6	7	8	9	10
170	1501289113	ALOK KUMAR	1	2	3	4	X	X	5	6	7	8
171	1501289114	AMAN	X	1	2	3	4	5	X	X	6	7
172	1501289115	AMAN ANUPAM RAY	X	1	2	3	4	5	6	7	8	9
173	1501289116	AMAN KUMAR	1	2	3	4	5	6	7	8	9	10
174	1501289118	AMIT KUMAR	1	2	3	X	X	4	5	6	7	8
175	1501289119	AMRITA PRITAM HOTA	1	2	3	4	5	6	7	8	9	10
176	1501289120	ANKIT KUMAR	1	2	3	X	X	4	5	6	7	8
177	1501289121	ANKITA KUMARI	1	2	X	3	X	X	4	5	6	7
178	1501289122	ANKITA NAYAK	1	2	X	3	4	5	6	7	X	8
179	1501289123	ANKUR	1	2	X	3	X	4	5	6	7	8
180	1501289124	APURV MISHRA	1	2	X	3	4	5	6	7	8	9
181	1501289126	ASHISH KUMAR	1	2	X	3	4	5	6	X	X	9
182	1501289127	ASHISH RAJ	1	2	3	4	5	6	7	8	9	10
183	1501289128	ASHUTOSH MAHAPATRA	X	1	2	3	4	5	6	7	8	9
184	1501289129	ASISH KUMAR MANASINGH	1	2	3	4	5	X	6	7	8	9
185	1501289130	ASMITA KAR	1	2	3	4	5	X	6	7	8	9
186	1501289131	ASWINI PRASAD PUHAN	X	1	2	3	4	X	5	6	7	8
187	1501289132	ATHARV RAJ	X	1	2	3	4	X	5	6	7	8
188	1501289133	ATULYA BHARDWAJ	1	2	3	4	5	X	6	7	8	9
189	1501289134	AYASH KUMAR PARIDA	1	2	3	4	5	X	6	7	8	9
190	1501289135	BARSHA MAHARANA	X	1	2	3	4	X	5	6	7	8

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Padmakar Claef **Month/Year:** 09/2018

Subject Code: **Branch:**

Subject:

Sl. No	REGD NO	NAME	13/10	15/10	16/10	17/10	19/10	20/10	22/10	23/10		
1	1501289006	PRACHI NAYAK	11	12	X	13	X	14	15	16		
2	1501289007	NADEEM AZIZ HUSSAIN	10	11	12	13	14	15	16	17		
3	1501289008	UMA SHANKAR PRADHAN	11	12	13	14	X	15	16	17		
4	1501289009	ADITYA KUMAR MOHANTY	10	11	12	13	X	14	15	16		
5	1501289011	RESMA BEHERA	10	11	12	13	X	14	15	16		
6	1501289013	SONALI MISHRA	10	X	11	X	12	13	14	15		
7	1501289014	ABHISEK KUMAR SINGH	10	11	12	13	14	15	16	17		
8	1501289015	APURVA KARN	10	11	12	13	14	15	16	17		
9	1501289016	ANUJ KUMAR PRAJAPATI	11	12	13	14	15	16	17	18		
10	1501289017	RASHINDER SINGH	10	11	12	13	14	15	16	17		
11	1501289018	ABHISEK JENA	10	X	11	12	13	14	15	16		
12	1501289020	CHINMAYEE MEKAP	11	12	13	14	15	16	17	X		
13	1501289021	SANDHYARANI NAYAK	10	11	12	13	14	15	16	17		
14	1501289022	AJAY KUMAR PRADHAN	11	12	13	14	15	16	17	18		
15	1501289023	RAFIKUL HASSAN	10	11	12	13	14	15	16	17		
16	1501289100	A SIBA PATRO	10	11	12	13	14	X	15	16		
17	1501289101	ABDUL SAMAD	10	11	12	13	14	15	16	17		
18	1501289103	ABHISHEK KUMAR	11	12	13	X	X	14	15	16		
19	1501289104	ABHISHEK KUMAR	11	12	X	13	14	X	15	16		
20	1501289105	ABHISHEK KUMAR	10	11	12	13	14	15	16	17		
21	1501289106	ABHISHEK PALAI	10	11	12	13	14	15	16	X		
22	1501289107	ABHISHEK ROUT	11	12	13	X	X	14	15	X		
23	1501289108	ABINASH KUMAR JENA	11	12	13	X	14	15	16	17		
24	1501289109	ADITI MAHATO	10	X	X	11	12	13	14	15		
25	1501289110	AISHWARYA	10	11	12	13	14	15	16	17		
26	1501289111	AISHWARYA NISHIPADMA NAYAK	10	11	12	13	14	X	X	X		
27	1501289112	AJ LOREN	10	11	12	13	14	15	16	17		
28	1501289113	ALOK KUMAR	11	12	13	14	15	16	17	18		
29	1501289114	AMAN	10	11	12	13	14	15	X	16		
30	1501289115	AMAN ANUPAM RAY	11	12	13	14	15	16	17	18		
35	1501289116	AMAN KUMAR	10	11	12	13	14	15	16	17		
36	1501289118	AMIT KUMAR	10	11	12	13	14	15	16	17		
37	1501289119	AMRITA PRITAM HOTA	9	10	11	12	13	14	15	16		
38	1501289120	ANKIT KUMAR	9	10	11	12	13	14	15	X		

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39	1501289121	ANKITA KUMARI	10	11	12	13	14	15	16	17		
40	1501289122	ANKITA NAYAK	10	11	X	X	12	13	14	15		
41	1501289123	ANKUR	9	10	11	12	X	13	14	15		
42	1501289124	APURV MISHRA	9	10	11	12	13	14	15	16		
43	1501289126	ASHISH KUMAR	10	11	12	13	14	15	16	17		
44	1501289127	ASHISH RAJ	X	10	11	12	13	14	X	15		
45	1501289128	ASHUTOSH MAHAPATRA	9	10	11	12	X	13	14	15		
46	1501289129	ASISH KUMAR MANASINGH	10	11	12	13	14	15	16	17		
47	1501289130	ASMITA KAR	10	11	12	13	14	15	X	16		
48	1501289131	ASWINI PRASAD PUHAN	10	11	12	13	14	X	15	16		
49	1501289132	ATHARV RAJ	9	10	11	12	13	14	15	16		
50	1501289133	ATULYA BHARDWAJ	X	9	10	11	12	13	14	15		
51	1501289143	CHANDRIKA BISWAL	10	11	12	13	14	15	X	16		
52	1501289146	DAMINI PATTANAYAK	11	12	13	14	15	16	17	17		
53	1501289147	DEBAJYOTI KAR	X	10	11	X	12	13	14	15		
54	1501289148	DEBASISH BARIK	X	10	11	12	13	14	15	16		
55	1501289149	DEBASISH PANDA	X	11	12	13	14	X	15	16		
56	1501289150	DEBASMITA SUBHADARSINI	10	11	12	13	14	15	16	17		
57	1501289151	DIBYAJYOTI CHAND	10	11	12	13	14	15	16	17		
58	1501289152	ELLA HARISH KUMAR	8	9	10	11	12	13	14	15		
59	1501289154	GOPAL KUMAR	10	11	12	13	14	15	16	17		
60	1501289155	HARISH CHOUDHURY	10	X	X	X	11	12	13	14		
61	1501289156	HARSH ANAND	10	11	12	13	14	X	15	16		
62	1501289157	JAYA PRAKASH SAHOO	9	10	11	12	13	14	15	16		
63	1501289158	JINI SAMANTARAY	10	X	11	12	13	14	15	16		
64	1501289159	JYOTIRMAYA PANDA	10	11	12	13	X	14	15	16		
65	1501289160	KAJAL SAH	9	10	11	12	13	14	15	16		
66	1501289161	KASTUREE NAYAK	10	11	12	13	14	X	15	16		
67	1501289162	KISHAN RANJAN SAHU	11	12	13	14	15	16	17	18		
68	1501289164	KUNDAN PRADHAN	9	10	11	X	12	13	14	15		
69	1501289165	LAXMIPRIYA NAYAK	10	11	12	13	14	15	X	16		
70	1501289167	LOPAMUDRA PARIDA	X	10	11	12	13	14	X	15		
71	1501289168	MANISHA SINGH	9	10	11	12	13	X	14	15		
72	1501289170	MOHAMMAD AMIN RAJA	10	11	12	13	14	15	16	17		
73	1501289172	MUKTI PRASAD SASMAL	X	11	12	13	X	X	14	15		
74	1501289173	MUSKAN GURU	X	10	11	12	13	14	15	16		
75	1501289174	NIKHIL SINGH	X	10	11	12	13	14	15	X		
76	1501289175	NILAMBAR PATRA	11	X	12	13	14	15	16	X		
77	1501289176	PARTHA SARATHI SAMANTARAY	10	11	12	13	14	15	X	16		
78	1501289177	PAYAL PRIYADARSINI	8	9	10	11	12	13	14	15		
79	1501289178	PINTU KUMAR GORAIN	9	10	11	12	13	14	15	16		
80	1501289179	PRAGYAN PALLAVI MISHRA	8	9	10	11	12	13	14	15		
81	1501289180	PRANAV	9	10	11	12	13	14	15	X		

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82	1501289181	PRANAV K DAS	9	10	11	12	X	13	14	15	.		
83	1501289182	PRASMITA MOHANTY	10	11	12	13	14	X	X	15			
84	1501289183	PRIYANKA PRIYADARSANI JENA	9	10	11	12	13	14	15	16			
85	1501289184	PRIYANKA PRIYADARSHINI PRADHAN	9	10	11	12	13	14	15	16			
86	1501289185	PURUSOTTAM SAHOO	10	11	12	13	14	15	16	17			
87	1501289186	RABINARAYAN SAHOO	9	10	11	12	13	14	15	16			
88	1501289187	RAHUL RAJ	X	11	12	13	14	15	16	17			
89	1501289188	RAJASWINI KUND	X	11	12	13	14	15	16	17			
90	1501289189	RAKESH KUMAR DASH	10	X	11	12	X	13	14	15			
91	1501289190	RAKESH KUMAR MOHAPATRA	11	12	13	X	14	15	16	17			
92	1501289191	RAKSHIT CHOUDHARY	9	10	11	12	13	X	14	15			
93	1501289192	RAMAN SHRESTHA	8	9	10	11	12	13	14	15			
94	1501289193	RAMESHWAR NATH PANDEY	9	10	11	12	13	14	15	16			
95	1501289194	RICHA	10	11	12	13	14	X	15	16			
96	1501289195	RIMA ROY	9	10	11	12	13	14	15	16			
97	1501289143	CHANDRIKA BISWAL	11	12	13	14	15	16	17	18			
98	1501289146	DAMINI PATTANAYAK	10	11	12	13	14	15	16	17			
99	1501289147	DEBAJYOTI KAR	10	X	X	X	X	X	11	12			
100	1501289148	DEBASISH BARIK	7	8	9	10	11	X	12	13			
101	1501289149	DEBASISH PANDA	9	10	11	12	13	X	14	15			
102	1501289150	DEBASMITA SUBHADARSINI	X	11	12	13	14	15	16	X			
103	1501289151	DIBYAJYOTI CHAND	11	12	13	14	15	16	17	18			
104	1501289152	ELLA HARISH KUMAR	9	10	11	12	13	14	15	16			
105	1501289154	GOPAL KUMAR	9	10	11	X	X	12	13	14			
106	1501289155	HARISH CHOUDHURY	7	8	9	10	11	12	13	14			
107	1501289156	HARSH ANAND	9	10	11	12	13	X	X	X			
108	1501289157	JAYA PRAKASH SAHOO	11	12	13	14	15	16	17	18			
109	1501289158	JINI SAMANTARAY	X	11	12	X	X	13	14	15			
110	1501289159	JYOTIRMAYA PANDA	8	9	X	10	11	12	13	14			
111	1501289160	KAJAL SAH	10	11	12	13	14	15	X	16			
112	1501289161	KASTUREE NAYAK	10	11	12	13	14	15	16	X			
113	1501289162	KISHAN RANJAN SAHU	X	10	11	12	13	14	15	X			
114	1501289164	KUNDAN PRADHAN	10	11	12	13	14	X	15	16			
115	1501289165	LAXMIPRIYA NAYAK	10	11	X	X	12	13	14	15			
116	1501289167	LOPAMUDRA PARIDA	X	10	11	12	13	14	15	16			
117	1501289168	MANISHA SINGH	10	11	12	13	14	X	X	15			
118	1501289170	MOHAMMAD AMIN RAJA	10	12	13	14	15	X	16	17			
119	1501289172	MUKTI PRASAD SASMAL	X	9	10	11	12	13	14	15			
120	1501289173	MUSKAN GURU	X	9	10	X	11	12	X	13			
121	1501289174	NIKHIL SINGH	X	X	8	X	9	10	11	12			
122	1501289175	NILAMBAR PATRA	X	10	11	X	12	13	X	14			

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123	1501289176	PARTHA SARATHI SAMANTARAY	11	12	13	14	15	16	17	18		
124	1501289177	PAYAL PRIYADARSINI	9	10	11	12	13	X	14	15		
125	1501289178	PINTU KUMAR GORAIN	10	11	X	X	12	13	14	15		
126	1501289179	PRAGYAN PALLAVI MISHRA	11	12	13	14	15	16	17	18		
127	1501289180	PRANAV	9	10	11	12	13	14	15	16		
128	1501289181	PRANAV K DAS	11	12	13	14	15	16	17	18		
129	1501289182	PRASMITA MOHANTY	10	11	12	13	14	X	15	16		
130	1501289183	PRIYANKA PRIYADARSANI JENA	10	11	12	13	14	X	15	16		
131	1501289184	PRIYANKA PRIYADARSHINI PRADHAN	9	10	11	12	13	14	15	16		
132	1501289185	PURUSOTTAM SAHOO	9	10	11	12	13	X	X	14		
133	1501289186	RABINARAYAN SAHOO	X	9	10	11	12	13	14	X		
134	1501289187	RAHUL RAJ	X	9	10	11	12	13	14	15		
135	1501289188	RAJASWINI KUND	9	10	11	12	13	14	X	15		
136	1501289189	RAKESH KUMAR DASH	10	11	12	13	14	15	16	17		
137	1501289190	RAKESH KUMAR MOHAPATRA	X	11	12	13	14	X	15	16		
138	1501289191	RAKSHIT CHOUDHARY	9	10	11	12	13	14	15	16		
139	1501289192	RAMAN SHRESTHA	8	9	10	11	12	13	14	15		
140	1501289193	RAMESHWAR NATH PANDEY	11	12	13	14	15	16	17	18		
141	1501289194	RICHA	7	8	9	10	11	12	13	14		
142	1501289195	RIMA ROY	X	10	11	12	13	14	15	16		
143	1501289006	PRACHI NAYAK	10	10	11	12	13	14	15	16		
144	1501289007	NADEEM AZIZ HUSSAIN	9	10	11	12	13	14	15	16		
145	1501289008	UMA SHANKAR PRADHAN	X	11	12	13	14	15	16	17		
146	1501289009	ADITYA KUMAR MOHANTY	8	9	10	11	12	13	14	15		
147	1501289011	RESMA BEHERA	9	10	11	12	X	13	X	14		
148	1501289013	SONALI MISHRA	X	10	11	12	13	14	15	16		
149	1501289014	ABHISEK KUMAR SINGH	9	10	11	12	13	14	15	16		
150	1501289015	APURVA KARN	9	10	11	12	13	14	15	16		
151	1501289016	ANUJ KUMAR PRAJAPATI	10	11	12	13	14	X	X	15		
152	1501289017	RASHINDER SINGH	9	10	11	12	13	14	15	16		
153	1501289018	ABHISEK JENA	9	10	11	12	13	14	15	16		
154	1501289020	CHINMAYEE MEKAP	10	11	12	13	14	15	16	17		
155	1501289021	SANDHYARANI NAYAK	11	12	13	14	15	16	17	18		
156	1501289022	AJAY KUMAR PRADHAN	11	12	13	14	15	16	17	18		
157	1501289023	RAFIKUL HASSAN	9	10	11	12	13	14	X	X		
158	1501289100	A SIBA PATRO	9	10	11	12	13	14	X	X		
159	1501289101	ABDUL SAMAD	X	10	11	X	X	X	12	13		
160	1501289103	ABHISHEK KUMAR	X	8	9	10	11	12	13	14		
161	1501289104	ABHISHEK KUMAR	9	10	11	12	13	14	15	16		
162	1501289105	ABHISHEK KUMAR	10	11	12	13	14	15	16	17		
163	1501289106	ABHISHEK PALAI	X	X	10	11	12	13	14	15		

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164	1501289107	ABHISHEK ROUT	11	12	13	14	15	16	17	18		
165	1501289108	ABINASH KUMAR JENA	11	12	13	14	15	16	17	18		
166	1501289109	ADITI MAHATO	7	X	X	X	8	9	10	11		
167	1501289110	AISHWARYA	10	11	12	13	14	15	16	17		
168	1501289111	AISHWARYA NISHIPADMA NAYAK	9	10	11	12	13	14	15	16		
169	1501289112	AJ LOREN	11	12	13	14	15	16	17	18		
170	1501289113	ALOK KUMAR	9	10	X	X	11	12	13	14		
171	1501289114	AMAN	8	9	10	11	12	13	14	15		
172	1501289115	AMAN ANUPAM RAY	10	11	12	X	X	13	14	15		
173	1501289116	AMAN KUMAR	11	12	13	14	15	16	17	18		
174	1501289118	AMIT KUMAR	9	10	11	12	13	X	X	14		
175	1501289119	AMRITA PRITAM HOTA	11	12	13	14	15	16	17	18		
176	1501289120	ANKIT KUMAR	9	10	11	12	X	X	13	14		
177	1501289121	ANKITA KUMARI	8	9	10	11	12	X	13	14		
178	1501289122	ANKITA NAYAK	9	10	11	12	13	14	15	16		
179	1501289123	ANKUR	9	X	10	11	12	X	13	14		
180	1501289124	APURV MISHRA	10	X	11	12	13	14	15	16		
181	1501289126	ASHISH KUMAR	8	X	9	10	11	12	13	14		
182	1501289127	ASHISH RAJ	11	12	13	14	15	16	17	18		
183	1501289128	ASHUTOSH MAHAPATRA	10	11	12	13	14	15	16	17		
184	1501289129	ASISH KUMAR MANASINGH	10	X	11	12	13	14	15	16		
185	1501289130	ASMITA KAR	10	11	12	13	14	15	16	17		
186	1501289131	ASWINI PRASAD PUHAN	9	10	11	12	13	14	15	16		
187	1501289132	ATHARV RAJ	9	10	11	12	13	14	X	X		
188	1501289133	ATULYA BHARDWAJ	10	X	11	12	13	14	15	16		
189	1501289134	AYASH KUMAR PARIDA	10	X	11	X	12	13	X	14		
190	1501289135	BARSHA MAHARANA	9	10	11	X	12	13	14	15		

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Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 13.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Android Development through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 12.09.2018, we propose to initiate the add on course titled "Mastering Android Development through Guided Problem Solving" for B. Tech and students. This course aims to provide hands-on experience in Android app development, focusing on mobile application design, Android Studio, and practical coding skills. The course will begin on 20.09.2018 and run according to the schedule attached for your kind approval.

Thanking You,

(HOD, CSE)

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SYLLABUS

Mastering Android Development through Guided Problem Solving

Total Lecture Periods: 30 hrs

Course Objectives:

This course aims to provide students with a thorough understanding of Android application development. By working on guided exercises and real-world examples, students will become proficient in building and deploying Android applications using Java/Kotlin and Android Studio.

MODULES:

MODULE-I: Introduction to Android Development [7 periods]

- Overview of Android OS and Mobile Development
- Setting up the Development Environment: Android Studio, Emulator, SDK
- Basic Components of an Android App: Activities, Services, Broadcast Receivers
- Introduction to Java/Kotlin for Android Development

MODULE-II: User Interface Design [7 periods]

- Understanding Android Layouts: LinearLayout, RelativeLayout, ConstraintLayout
- Designing UI Components: Buttons, TextViews, EditTexts, ListViews
- Handling User Inputs and Events: Button clicks, Text input, Gesture handling
- Working with Images, Icons, and Themes in Android Apps

MODULE-III: Android Programming Fundamentals [6 periods]

- Activity Lifecycle and Intent Management
- Working with Fragment and ViewPager
- Data Management: Shared Preferences, SQLite Database, Content Providers
- Network Operations: RESTful APIs, HTTP Requests, JSON Parsing

MODULE-IV: Advanced Android Development [10 periods]

- Multi-threading and AsyncTask
- Location-based Services and Maps API
- Push Notifications and Firebase Integration
- Debugging, Error Handling, and Performance Optimization in Android Apps
- Publishing Android Apps to Google Play Store

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Course Outcomes:

After completion of the course, students will be able to:

- **CO1:** Understand the basics of Android development and set up the development environment.
- **CO2:** Design interactive and user-friendly mobile applications using Android UI components.
- **CO3:** Implement core Android features, including data storage, multi-threading, and networking.
- **CO4:** Build, debug, and optimize Android apps for performance and reliability.
- **CO5:** Publish Android apps on the Google Play Store and integrate third-party services like Firebase.
- **CO6:** Collaborate on group projects to build real-world Android applications.

Evaluation Process:

1. **Attendance:** 75% attendance is mandatory.
2. **Assessment:** Combination of assignments, quizzes, project work, and a final exam.
3. **Certification:** Certificate will be awarded after successful completion of the course and all assessments.

Suggested Books & Learning Resources:

1. **"Android Programming: The Big Nerd Ranch Guide" by Bill Phillips & Chris Stewart**
2. **"Head First Android Development" by Dawn Griffiths & David Griffiths**

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)

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Computer Science Engg.

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SCHEDULE

Mastering Android Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	20.09.2018	3:00 PM - 6:00 PM	Introduction to Android OS and Setting up the Development Environment
2	21.09.2018	3:00 PM - 6:00 PM	Android UI Layouts and Components
3	22.09.2018	3:00 PM - 6:00 PM	Designing and Handling User Inputs and Events
4	24.09.2018	3:00 PM - 6:00 PM	Activity Lifecycle, Intents, and Fragment Management
5	25.09.2018	3:00 PM - 6:00 PM	Data Management and SQLite Database Operations
6	26.09.2018	3:00 PM - 6:00 PM	Network Operations, REST APIs, and JSON Parsing
7	27.09.2018	3:00 PM - 6:00 PM	Multi-threading, AsyncTask, and Performance Optimization
8	28.09.2018	3:00 PM - 6:00 PM	Push Notifications, Firebase Integration, Google Maps API
9	29.09.2018	3:00 PM - 6:00 PM	Debugging, Error Handling, and Publishing to Play Store
10	01.10. 2018	4:00 PM - 6:00 PM	Final Project: Building a Complete Android Application
11	03.10.2018	5:00 PM - 6:00 PM	Assessment

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:14.09.2018

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Mastering Android Development through Guided Problem Solving" from 20.09.2018. All interested students must register by 18.09.2020.

Course Name: Mastering Android Development through Guided Problem Solving

Instructor Name: Aditya Narayan Das

Registration Contact: 8249083661

Principal

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Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Date: 19.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Android Development through Guided Problem Solving".

Respected Sir,

We are going to start course on " Mastering Android Development through Guided Problem Solving " from 20.09.2018 and a total of 38 Students have enrolled for this course. This is for your kind information.

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)
HOD
Computer Science Engg.

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Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:03.10.2018

ANDROID
ASSESSMENT

10
10

Name Of the Student: Nitin Kumar Dash
Regd No: 1501289458

All Questions Compulsory

Q1: What is the primary programming language used for Android development?
A) Java B) Python C) Swift D) C++

Q2: Which component is responsible for managing the UI of an Android app?
A) Service B) Content Provider
C) Activity D) Broadcast Receiver

Q3: Which Android Studio tool is used to visually design the UI of an app?
A) AVD Manager B) Layout Editor
C) Logcat D) Gradle

Q4: Which layout arranges elements in a single row or column?
A) Relative Layout B) Linear Layout
C) Frame Layout D) Table Layout

Q5: How do you navigate from one Activity to another in Android?
A) Using a Service B) Using a Content Provider
C) Using an Intent D) Using a Broadcast Receiver

Q6: What is the purpose of Shared Preferences in Android?
A) Store large amounts of structured data B) Manage UI components
C) Store small key-value pairs persistently D) Handle background tasks

Q7: Which database is commonly used for local storage in Android apps?
A) MySQL B) Firebase C) PostgreSQL D) SQLite

Q8: What is JSON commonly used for in Android development?
A) Storing images B) Managing UI components
C) Data exchange between client and server D) Handling user inputs

Q9: Which class is used for executing background tasks in Android?
A) Async Task B) Thread Manager
C) Data Loader D) Back ground Task

Q10: Which method is used to make an HTTP request in Android?
A) send Http()
B) execute Http()
C) Http Url Connection()
D) request Http ()

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Aditya Narayan Dey,

Subject Code:

Month/Year: Sem 2018

Branch:

Subject: Android Development

Sl. No	REGD NO	NAME	20/09	21/09	22/09	24/09	25/09	26/09	27/09	28/09	29/09	01/10
1	1501289047	JITESH KUMAR DORA	1	2	3	4	a	5	6	7	8	9
2	1501289048	PRATIK DASMAHAPATRA	1	2	3	4	5	a	6	7	8	9
3	1501289049	SOURABH KUMAR	a	1	2	3	4	5	6	7	8	9
4	1501289050	DEBASHIS BISOYE	1	2	3	4	5	6	7	8	9	a
5	1501289051	RAKESH SAMANTARAY	1	2	3	a	4	5	6	7	8	9
6	1501289052	JASRUP SINGH	1	2	3	4	5	6	7	8	9	10
7	1501289405	ABHAYA BEHERA	1	8	3	4	5	6	7	8	a	9
8	1501289406	ABHIJIT MOHAPATRA	1	2	3	4	5	6	a	7	8	9
9	1501289407	ABHISHEK BEHERA	1	2	3	a	4	5	6	7	8	9
10	1501289408	ADITYA KUMAR	1	a	2	3	4	5	6	7	8	9
11	1501289409	AJEET KUMAR	1	2	3	4	5	6	7	8	9	a
12	1501289410	ALOK KUMAR SAHU	1	2	3	4	5	6	7	8	9	10
13	1501289411	AMIT SWAIN	1	2	a	3	4	5	6	7	8	9
14	1501289412	AMIYA NAYAK	a	1	2	3	4	5	6	7	8	9
15	1501289413	ANIL KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
16	1501289414	ANKIT ANURAG SAHU	1	2	3	4	5	6	a	7	8	9
17	1501289415	ANKUSH PANDA	1	2	3	4	5	a	6	7	8	9
18	1501289416	ANSHUMAN MISHRA	1	2	3	4	5	6	7	a	8	9
19	1501289417	ANSUMAYA JENA	1	2	3	4	a	5	6	7	8	9
20	1501289419	ARPAN KUMAR SAMANTARAY	a	a	1	2	3	4	5	6	7	8
21	1501289420	ASHOK YADAV	1	2	3	4	5	6	7	8	9	10
22	1501289421	ASHUTOSH ROUT	1	2	3	4	5	6	7	8	a	9
23	1501289455	MOHAMMAD FAISAL	1	2	3	4	5	6	7	8	a	9
24	1501289456	MUSTAHSAN JAMIL SIDDIQUI	1	2	3	4	5	6	a	7	8	9
25	1501289457	NILL SARKAR	1	a	2	3	4	5	6	7	8	9
26	1501289458	NITIN KUMAR DASH	1	2	3	4	5	a	6	7	8	9
27	1501289459	OMKAR MOHAPATRA	1	2	a	3	4	5	6	7	8	9
28	1501289345	GEETIKRISHNA SAHU	1	2	3	4	5	6	7	a	8	9
29	1501289346	HIMANSHU KUMAR	1	2	a	3	4	5	6	7	8	9
30	1501289347	IVATURI SRINIVAS	a	1	2	3	4	5	6	7	8	9

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35	1501289348	JYOTI PATEL	1	2	3	4	5	a	6	7	8	9
36	1501289349	JYOTI RANJAN MOHANTY	1	2	a	3	4	5	6	7	8	9
37	1501289350	KAJAL KUMARI	a	1	2	3	4	5	6	7	8	9
38	1501289351	KRUSHNAKANTA MOHAKUD	1	2	3	a	4	5	6	7	8	9

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanayak

Month/Year: Sept 2019

Subject Code:

Branch:

Subject: Android Development

Sl. No	REGD NO	NAME	03/09									
1	1501289047	JITESH KUMAR DORA	10									
2	1501289048	PRATIK DASMAHAPATRA	10									
3	1501289049	SOURABH KUMAR	10									
4	1501289050	DEBASHIS BISOYE	10									
5	1501289051	RAKESH SAMANTARAY	10									
6	1501289052	JASRUP SINGH	11									
7	1501289405	ABHAYA BEHERA	10									
8	1501289406	ABHIJIT MOHAPATRA	10									
9	1501289407	ABHISHEK BEHERA	10									
10	1501289408	ADITYA KUMAR	10									
11	1501289409	AJEET KUMAR	10									
12	1501289410	ALOK KUMAR SAHU	11									
13	1501289411	AMIT SWAIN	10									
14	1501289412	AMIYA NAYAK	10									
15	1501289413	ANIL KUMAR BEHERA	a									
16	1501289414	ANKIT ANURAG SAHU	10									
17	1501289415	ANKUSH PANDA	10									
18	1501289416	ANSHUMAN MISHRA	10									
19	1501289417	ANSUMAYA JENA	10									
20	1501289419	ARPAN KUMAR SAMANTARAY	9									
21	1501289420	ASHOK YADAV	11									
22	1501289421	ASHUTOSH ROUT	10									
23	1501289455	MOHAMMAD FAISAL	10									
24	1501289456	MUSTAHSAN JAMIL SIDDIQUI	10									
25	1501289457	NILL SARKAR	10									
26	1501289458	NITIN KUMAR DASH	10									
27	1501289459	OMKAR MOHAPATRA	10									
28	1501289345	GEETIKRISHNA SAHU	10									
29	1501289346	HIMANSHU KUMAR	10									
30	1501289347	IVATURI SRINIVAS	10									

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35	1501289348	JYOTI PATEL	10									
36	1501289349	JYOTI RANJAN MOHANTY	10									
37	1501289350	KAJAL KUMARI	10									
38	1501289351	KRUSHNAKANTA MOHAKUD	10									

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 06.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar,
Patia

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B. Tech & MCA students.

Respected Sir,

As per our departmental meeting held on 05.09.2018, we are planning to start an add-on course "Mastering Python through Guided Problem Solving" from 17.09.2018. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

PChavel

(HOD, CSE)

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SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 50 hrs.
Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [12 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [12 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [14 periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly
- Working with large datasets

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- Case study: Data analysis of real-world data

Module-IV: Advanced Python Topics [12 periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with Beautiful Soup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.

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- **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).
- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Subhra Swetanisha

(Course Instructor)

(HOD, CSE)

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Mastering Python through Guided Problem Solving

SCHEDULE

Sl No	Date	Time	Course Content
1	17/09/2018	3:00PM-6.00PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	18/09/2018	3:00PM-6.00PM	Data types, variables, operators, and control structures (loops and conditionals)
3	19/09/2018	3:00PM-6.00PM	Functions, modules, packages, debugging techniques, and exception handling
4	20/09/2018	3:00PM-6.00PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	21/09/2018	3:00PM-6.00PM	Stacks, Queues, Linked Lists, and their applications
6	22/09/2018	3:00PM-6.00PM	Sorting and searching algorithms, time and space complexity analysis
7	24/09/2018	3:00PM-6.00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	25/09/2018	3:00PM-6.00PM	Data visualization with Matplotlib, Seaborn, and interactive plots using Plotly
9	26/09/2018	3:00PM-6.00PM	Working with large datasets
10	27/09/2018	3:00PM-6.00PM	Working with large datasets with solving various question.
11	28/09/2018	3:00PM-6.00PM	case study on real-world data analysis
12	29/09/2018	3:00PM-6.00PM	OOP concepts in Python:
13	01.10.2018	3:00PM-6.00PM	OOP Classes, Objects, and Methods
14	03.10.2018	3:00PM-6.00PM	Web scraping with Beautiful Soup and Requests,
15	04.10.2018	3:00PM-6.00PM	File handling, and regular expressions
16	05.10.2018	4:00PM-6.00PM	Multi-threading, multiprocessing
17	06.10.2018	4:00PM-6.00PM	Introduction to machine learning with Python
18	08.10.2018	5:00PM-6.00PM	Assessment

Subhra Swetanisha

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:07.09.2018

This is to inform all B. Tech & MCA students that the department of CSE will start an add-on certificate course on "Mastering Python through Guided Problem Solving" starting from 17.09.2018. Interested students must register on or before 12.09.2018. The course details are as follows:

- Course Name: Mastering Python through Guided Problem Solving
- Instructor Name: Subhra Swetanisha
- Registration Contact: 8249857798

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:14.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start a course on "Mastering Python through Guided Problem Solving" from 17.09.2018 and a total of 38 Students have enrolled for this course. This is for your kind information.

Subhra Swetanisha

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:08.10.2018

PYTHON

ASSESSMENT

09/10

Name Of the Student: Nill Sarekart
Regd No: 1501289457

All Questions Compulsory

Q1: What is the correct file extension for Python files?
A) .py B) .pyt C) .pt D) .python

Q2: Which of the following is an immutable data type in Python?
A) List B) Dictionary C) Tuple D) Set

Q3: How do you open a file for reading in Python?
A) open("file.txt", "r") B) open("file.txt", "w")
C) open("file.txt", "a") D) open("file.txt", "rb")

Q4: What does the len() function return when used on a dictionary?
A) Number of keys B) Number of values
C) Number of key-value pairs D) Number of unique keys

Q5: Which of the following libraries is used for creating interactive plots in Python?
A) Matplotlib B) Seaborn C) Plotly D) Pandas

Q6: Which Python module is used for regular expressions?
A) re B) regex C) random D) string

Q7: Which of the following is a correct way to define a set in Python?
A) my_set = {1, 2, 3} B) my_set = [1, 2, 3]
C) my_set = (1, 2, 3) D) my_set = {"a": 1, "b": 2}

Q8: What does the try-except block do in Python?
A) It handles syntax errors B) It handles runtime exceptions
C) It speeds up code execution D) It prevents code execution

Q9: Which keyword is used to define a class in Python?
A) class
B) def
C) struct
D) object

Q10: What is the purpose of the __name__ == "__main__" statement in Python?
A) It runs the script only when executed directly
B) It defines a main function
C) It creates a new thread
D) It imports external libraries

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Subhra Sucharisha **Month/Year:** 9/18

Subject Code: **Branch:**

Subject: Mastering Python

Sl. No	REGD NO	NAME	17/09	18/09	19/09	20/09	21/09	22/09	24/09	25/09	26/09	27/09
1	1501289421	ASHUTOSH ROUT	1	2	3	4	5	6	7	8	9	10
2	1501289455	MOHAMMAD FAISAL	1	X	2	3	4	5	6	7	8	9
3	1501289456	MUSTAHSAN JAMIL SIDDIQUI	1	2	3	4	5	6	7	8	9	10
4	1501289457	NILL SARKAR	1	2	3	4	5	6	7	8	9	10
5	1501289458	NITIN KUMAR DASH	1	2	3	4	5	6	7	X	8	9
6	1501289459	OMKAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
7	1501289460	PARAGRENU LENKA	1	2	3	4	5	6	7	8	9	10
8	1501289461	PARAMANANDA NAYAK	1	2	3	4	5	6	X	7	8	9
9	1501289462	PEEYUSH VERMA	1	2	3	4	5	6	7	A	8	9
10	1501289463	PRAKASH KUMAR	1	X	2	3	4	5	6	7	8	9
11	1501289464	PRANJOL SINHA	1	2	3	4	5	6	7	8	X	9
12	1501289465	PRATYUSH KUMAR MOHANTY	1	2	3	4	5	X	6	7	8	9
13	1501289466	PRINCE KUMAR	1	2	3	4	5	6	7	8	9	10
14	1501289045	AMISH SINHA	1	2	X	3	4	5	6	7	8	9
15	1501289046	SANDEEP KUMAR PATTNAIK	1	2	3	4	5	6	7	8	9	10
16	1501289047	JITESH KUMAR DORA	1	X	2	3	4	5	6	7	8	9
17	1501289048	PRATIK DASMAHAPATRA	1	2	3	4	5	6	7	8	9	10

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Bhubaneswar-751024

18	1501289049	SOURABH KUMAR	1	2	3	4	5	6	7	8	9	10
19	1501289050	DEBASHIS BISOYE	1	2	3	X	4	5	6	7	8	9
20	1501289051	RAKESH SAMANTARAY	1	2	3	4	5	6	7	X	8	9
21	1501289052	JASRUP SINGH	1	2	X	3	4	5	6	7	8	9
22	1501289405	ABHAYA BEHERA	1	X	2	3	4	5	6	7	8	9
23	1501289406	ABHIJIT MOHAPATRA	1	2	3	4	5	6	7	8	9	10
24	1501289407	ABHISHEK BEHERA	1	2	3	4	5	6	X	7	8	9
25	1501289408	ADITYA KUMAR	1	2	3	4	5	6	7	8	9	X
26	1501289409	AJEET KUMAR	1	2	3	4	5	6	7	8	X	9
27	1501289410	ALOK KUMAR SAHU	1	X	2	3	4	5	6	7	8	9
28	1501289411	AMIT SWAIN	1	2	3	4	5	6	7	8	9	10
29	1501289412	AMIYA NAYAK	1	2	3	4	5	6	7	8	9	10
30	1501289413	ANIL KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
35	1501289414	ANKIT ANURAG SAHU	1	2	X	3	4	5	6	7	8	9
36	1501289415	ANKUSH PANDA	1	2	3	4	5	6	7	8	9	10
37	1501289416	ANSHUMAN MISHRA	1	2	3	4	5	6	7	8	9	10
38	1501289417	ANSUMAYA JENA	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Subhra Suetanshee **Month/Year:** 9/18

Subject Code: **Branch:**

Subject: Mastering Python

Sl. No	REGD NO	NAME	28/09	29/09	01/10	03/10	04/10	05/10	06/10	08/10		
1	1501289421	ASHUTOSH ROUT	11	12	13	14	15	16	X	17		
2	1501289455	MOHAMMAD FAISAL	10	11	12	13	14	15	16	17		
3	1501289456	MUSTAHSAN JAMIL SIDDIQUI	11	X	12	13	14	15	16	17		
4	1501289457	NILL SARKAR	11	12	13	X	14	15	16	17		
5	1501289458	NITIN KUMAR DASH	10	11	12	13	14	X	15	16		
6	1501289459	OMKAR MOHAPATRA	11	12	13	14	15	16	X	17		
7	1501289460	PARAGRENU LENKA	11	12	13	X	14	15	16	17		
8	1501289461	PARAMANANDA NAYAK	10	X	11	12	13	14	15	16		
9	1501289462	PEEYUSH VERMA	10	11	12	13	14	15	16	17		
10	1501289463	PRAKASH KUMAR	10	11	12	13	14	15	16	17		
11	1501289464	PRANJOL SINHA	10	11	12	13	14	15	16	17		
12	1501289465	PRATYUSH KUMAR MOHANTY	10	11	12	13	14	15	16	17		
13	1501289466	PRINCE KUMAR	11	12	13	14	15	X	16	17		
14	1501289045	AMISH SINHA	10	11	12	13	14	15	16	17		
15	1501289046	SANDEEP KUMAR PATTNAIK	11	12	13	X	14	15	16	17		
16	1501289047	JITESH KUMAR DORA	10	11	12	13	14	15	16	17		
17	1501289048	PRATIK DASMAHAPATRA	11	12	X	13	14	15	16	17		

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18	1501289049	SOURABH KUMAR											
19	1501289050	DEBASHIS BISOYE											
20	1501289051	RAKESH SAMANTARAY											
21	1501289052	JASRUP SINGH											
22	1501289405	ABHAYA BEHERA											
23	1501289406	ABHIJIT MOHAPATRA											
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25	1501289408	ADITYA KUMAR											
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27	1501289410	ALOK KUMAR SAHU											
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29	1501289412	AMIYA NAYAK											
30	1501289413	ANIL KUMAR BEHERA											
35	1501289414	ANKIT ANURAG SAHU											
36	1501289415	ANKUSH PANDA											
37	1501289416	ANSHUMAN MISHRA											
38	1501289417	ANSUMAYA JENA											

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 07.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Android Development through Guided Problem Solving" for MCA students.

Respected Sir,

As per our departmental meeting held on 06.09.2018, we are planning to start a course on "Mastering Android Development through Guided Problem Solving" from 17.09.2018. This course aims to provide a strong foundation in Android app development, covering both essential and advanced topics. Students will learn to develop Android applications through hands-on exercises and project-based learning. The course duration and schedule are attached for your perusal.

Thanking You

K. Dev

(HOD, MCA)

HOD
MCA

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Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Android Development through Guided Problem Solving

Total Lecture Periods: 30 hrs.

Course Objectives:

This course aims to enhance students' skills in Android app development using a hands-on, project-based approach. Students will learn the fundamentals of Android Studio, user interface design, database integration, and various Android development frameworks. By the end of the course, students will be able to create and deploy functional Android apps.

MODULES

Module-I: Introduction to Android Development [10 periods]

- Overview of Android Operating System and Architecture
- Setting up the Android Development Environment (Android Studio)
- Understanding Android components: Activities, Services, Broadcast Receivers, Content Providers
- Introduction to Android UI elements (Layouts, Views, Widgets)
- Writing the first Android App: Hello World app

Module-II: User Interface and User Experience (UI/UX) Design [10 periods]

- Designing responsive user interfaces using XML
- Understanding Layouts: Linear Layout, Relative Layout, Constraint Layout
- Event Handling in Android (Buttons, Text Fields, Listeners)
- Intents and Navigation: Navigating between Activities and Fragments
- Best practices in UI/UX design for Android apps

Module-III: Data Management and APIs [10 periods]

- Working with SQLite database in Android
- Shared Preferences and Internal Storage
- Working with external data sources: JSON and REST APIs
- Networking in Android: HTTP requests and parsing responses
- Using Android's AsyncTask for background processing

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Course Outcomes

After completing the course, students will be able to:

- **CO1**: Set up the Android development environment and build simple apps.
- **CO2**: Design and implement intuitive and responsive user interfaces using Android Studio.
- **CO3**: Work with databases, APIs, and third-party libraries for Android development.
- **CO4**: Use advanced features such as Firebase, push notifications, and Google Play Services.
- **CO5**: Deploy Android applications to the Google Play Store and manage app performance.
- **CO6**: Apply best practices in UI/UX design, security, and debugging for Android apps.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificates will be awarded to students upon successful completion of the course and assessments.

Suggested Learning Resources

- **Books**:
    1. "Android Programming: The Big Nerd Ranch Guide" by Bill Phillips, Chris Stewart, and Kristin Marsicano
    2. "Head First Android Development" by Dawn Griffiths and David Griffiths
    3. "Android Development for Beginners" by John Horton
    4. "Android App Development for Dummies" by Michael Burton

A. K. Sahoo

Ashok Kumar Sahoo
(Course Instructor)

K. Dev

(HOD, MCA)

HOD
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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Android Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	17/09/2018	3:00PM-6:00PM	Introduction to Android Development
2	18/09/2018	3:00PM-6:00PM	Overview of Android User Interfaces (UIs)
3	19/09/2018	3:00PM-6:00PM	Fundamentals of XML for UI Design
4	20/09/2018	3:00PM-6:00PM	Creating and Styling Views in Android
5	21/09/2018	3:00PM-6:00PM	Introduction to Layouts in Android
6	22/09/2018	3:00PM-6:00PM	Exploring Linear Layout: Properties and Use Cases
7	24/09/2018	3:00PM-6:00PM	Designing with Relative Layout: Features and Examples, Building Flexible UIs using Constraint Layout
8	25/09/2018	3:00PM-6:00PM	Handling UI Scaling Across Devices and Orientations
9	26/09/2018	3:00PM-6:00PM	XML Layout Resources: Optimization and Reusability
10	27/09/2018	4:00PM-6:00PM	Debugging and Testing Layout Designs
10	28/09/2018	5:00PM-6:00PM	Assessment

A. K. Sahoo

Ashok Kumar Sahoo
(Course Instructor)

K. Dev

(HOD, MCA)

HOD
MCA

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:10.09.2018

This is to inform all MCA students that the department of MCA will start an add-on course on "Mastering Android Development through Guided Problem Solving" starting from 17.09.2018. Interested students must register by 14.09.2018. The course details are as follows:

- Course Name: Mastering Android Development through Guided Problem Solving
- Instructor Name: Ashok Kumar Sahoo
- Registration Contact No: 9937778417

Principal

10/9/18

Principal
Trident Academy of Technology
Bhubaneswar-751024

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(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:15.09.2018

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Number of Students Enrolled for the Addon Course "Mastering Android Development through Guided Problem Solving".

Respected Sir,

We are going to start a course on " Mastering Android Development through Guided Problem Solving " from 17.09.2018 and a total of 38 Students have enrolled for this course. This is for your kind information.

Thanking You,

A. K. Sahoo

Ashok Kumar Sahoo
(Course Instructor)

K. Dey

(HOD, MCA)
HOD
MCA

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:28.09.2018

10/10

ANDROID
ASSESSMENT

Name Of the Student: Jyoti Patel
Regd No: 1501289348

All Questions Compulsory

Q1: What is the core component of an Android application responsible for the user interface?
A) Service
B) Activity
C) Content Provider
D) Broadcast Receiver

Q2: Which tool is used to develop Android applications?
A) Eclipse B) Android Studio C) NetBeans D) Xcode

Q3: Which layout allows child elements to be positioned relative to each other?
A) Linear Layout
B) Relative Layout
C) Frame Layout
D) Table Layout

Q4: Which component is used for navigation between Activities in Android?
A) Service
B) Broadcast Receiver
C) Intent
D) Content Provider

Q5: Which database is used for local storage in Android?
A) MySQL B) PostgreSQL C) Firebase D) SQLite

Q6: What is the primary use of Shared Preferences in Android?
A) Storing large amounts of data
B) Storing key-value pairs persistently
C) Managing UI components
D) Handling network requests

Q7: What is REST API primarily used for in Android development?
A) Sending SMS
B) Managing local databases
C) Communicating with web services
D) Handling background tasks

Q8: Which class is used for making HTTP requests in Android?
A) Http Request
B) Network Manager
C) Http URL Connection
D) URL Handler

Q9: What is the purpose of Async Task in Android?
A) Handling user inputs
B) Performing network operations on the main thread
C) Executing background tasks without blocking the UI
D) Managing app permissions

Q10: Which UI component is used to display a scrollable list of items in Android?
A) Grid View
B) List View
C) Table View
D) Frame View

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: A.K.Sahu

Month/Year: Sept - 2018

Subject Code:

Branch:

Subject: Mastering Android Development through Guided Problem solving.

Sl. No	REGD NO	NAME	17/09	18/09	19/09	20/09	21/09	22/09	24/09	25/09	26/09	27/09
1	1501289047	JITESH KUMAR DORA	1	2	3	4	X	5	6	7	8	9
2	1501289048	PRATIK DASMAHAPATRA	1	2	3	4	5	6	X	7	8	9
3	1501289049	SOURABH KUMAR	1	2	3	4	X	5	6	7	8	9
4	1501289050	DEBASHIS BISOYE	1	2	3	4	5	6	X	7	8	9
5	1501289051	RAKESH SAMANTARAY	1	2	X	3	4	5	6	7	8	9
6	1501289052	JASRUP SINGH	1	2	3	4	X	5	6	7	8	9
7	1501289405	ABHAYA BEHERA	1	2	X	3	4	5	6	7	8	9
8	1501289406	ABHIJIT MOHAPATRA	1	2	3	4	5	6	7	8	X	9
9	1501289407	ABHISHEK BEHERA	1	2	X	3	4	5	6	7	8	9
10	1501289408	ADITYA KUMAR	1	2	X	3	4	5	6	7	8	9
11	1501289409	AJEET KUMAR	1	X	2	3	4	5	6	7	8	9
12	1501289410	ALOK KUMAR SAHU	1	2	3	X	4	5	6	7	8	9
13	1501289411	AMIT SWAIN	1	2	3	4	5	X	6	7	8	9
14	1501289412	AMIYA NAYAK	1	2	3	4	X	5	6	7	8	9
15	1501289413	ANIL KUMAR BEHERA	1	2	3	X	4	5	6	7	8	9
16	1501289414	ANKIT ANURAG SAHU	1	X	2	3	4	5	6	7	8	9
17	1501289415	ANKUSH PANDA	1	2	3	4	X	5	6	7	8	9
18	1501289416	ANSHUMAN MISHRA	1	2	3	4	5	6	X	7	8	9
19	1501289417	ANSUMAYA JENA	1	2	X	3	4	5	6	7	8	9
20	1501289419	ARPAN KUMAR SAMANTARAY	1	2	3	4	X	5	6	7	8	9
21	1501289420	ASHOK YADAV	1	2	X	3	4	5	6	7	8	9
22	1501289421	ASHUTOSH ROUT	1	2	3	4	5	6	7	8	X	9
23	1501289455	MOHAMMAD FAISAL	1	2	3	X	4	5	6	7	8	9
24	1501289456	MUSTAHSAN JAMIL SIDDIQUI	1	2	X	3	4	5	6	7	8	9
25	1501289457	NILL SARKAR	1	2	3	X	4	5	6	7	8	9
26	1501289458	NITIN KUMAR DASH	1	2	3	X	4	5	6	7	8	9
27	1501289459	OMKAR MOHAPATRA	1	2	3	4	X	5	6	7	8	9
28	1501289345	GEETIKRISHNA SAHU	1	2	3	X	4	5	6	7	8	9
29	1501289346	HIMANSHU KUMAR	1	2	X	3	4	5	6	7	8	9
30	1501289347	IVATURI SRINIVAS	1	2	3	4	X	5	6	7	8	9

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Bhubaneswar-751024

35	1501289348	JYOTI PATEL	1	2	3	4	X	5	6	7	8	9
36	1501289349	JYOTI RANJAN MOHANTY	1	2	3	4	5	6	X	7	8	9
37	1501289350	KAJAL KUMARI	1	2	3	X	4	5	6	7	8	9
38	1501289351	KRUSHNAKANTA MOHAKUD	1	2	3	4	5	X	6	7	8	9

A. K. Sahu.

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: A. K. Sahu

Month/Year: Sept - 2018

Subject Code:

Branch:

Subject: Mastering Android Development through Guided Problem solving.

Sl. No	REGD NO	NAME	28/09										
1	1501289047	JITESH KUMAR DORA	10										
2	1501289048	PRATIK DASMAHAPATRA	10										
3	1501289049	SOURABH KUMAR	10										
4	1501289050	DEBASHIS BISOYE	10										
5	1501289051	RAKESH SAMANTARAY	10										
6	1501289052	JASRUP SINGH	10										
7	1501289405	ABHAYA BEHERA	10										
8	1501289406	ABHIJIT MOHAPATRA	10										
9	1501289407	ABHISHEK BEHERA	10										
10	1501289408	ADITYA KUMAR	10										
11	1501289409	AJEET KUMAR	10										
12	1501289410	ALOK KUMAR SAHU	10										
13	1501289411	AMIT SWAIN	10										
14	1501289412	AMIYA NAYAK	10										
15	1501289413	ANIL KUMAR BEHERA	10										
16	1501289414	ANKIT ANURAG SAHU	10										
17	1501289415	ANKUSH PANDA	10										
18	1501289416	ANSHUMAN MISHRA	10										
19	1501289417	ANSUMAYA JENA	10										
20	1501289419	ARPAN KUMAR SAMANTARAY	10										
21	1501289420	ASHOK YADAV	10										
22	1501289421	ASHUTOSH ROUT	10										
23	1501289455	MOHAMMAD FAISAL	10										
24	1501289456	MUSTAHSAN JAMIL SIDDIQUI	10										
25	1501289457	NILL SARKAR	10										
26	1501289458	NITIN KUMAR DASH	10										
27	1501289459	OMKAR MOHAPATRA	10										
28	1501289345	GEETIKRISHNA SAHU	10										
29	1501289346	HIMANSHU KUMAR	10										
30	1501289347	IVATURI SRINIVAS	10										

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35	1501289348	JYOTI PATEL	10									
36	1501289349	JYOTI RANJAN MOHANTY	10									
37	1501289350	KAJAL KUMARI	10									
38	1501289351	KRUSHNAKANTA MOHAKUD	10									

A. K. Sahu

Signature of Teacher

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Bhubaneswar-751024

Date:11.09.2019

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering Technical Skills through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 09.09.2019 we are planning to start a course "Mastering Technical Skills through Guided Problem Solving" from 26.09.2019. The objective of the course is to provide in-depth training on essential technical skills required in industry to our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, CSE)

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SYLLABUS

Mastering Technical Skills through Guided Problem Solving

Total Lecture Periods: 27hrs

Course Objectives:

This course aims to enhance students' proficiency in critical technical domains through hands-on problem-solving and practical exercises. The course covers essential skills such as programming, data handling, software development, and collaborative project management to prepare students for industry-ready roles.

MODULE-I: Introduction to Technical Skills [17 periods]

- **Topics:** Overview of industry demands, introduction to problem-solving techniques, and tools like IDEs and version control systems (Git).

MODULE-II: Programming Fundamentals [18 periods]

- **Topics:** Core programming concepts, structured programming, debugging practices, and writing optimized code in C/Python/Java.

MODULE-III: Data Handling and Analysis [13 periods]

- **Topics:** Introduction to data structures, databases, and data manipulation techniques using SQL/Excel/Pandas.

MODULE-IV: Industry-Oriented Project [12 periods]

- **Topics:** Real-world problem-solving using technical skills, collaborative team projects, and presentation of solutions.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Identify key technical requirements and apply problem-solving strategies.
CO2: Demonstrate proficiency in programming for solving technical problems.
CO3: Use tools like Git and databases effectively in project development.
CO4: Analyze data for meaningful insights using technical tools.
CO5: Collaborate and deliver solutions for real-world scenarios.
CO6: Build a foundation for advanced technical certifications or specializations.

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Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. Clean Code: A Handbook of Agile Software Craftsmanship by Robert C. Martin
2. Introduction to Algorithms by Thomas H. Cormen

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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SCHEDULE

Mastering Technical Skills through Guided Problem Solving

Sl No	Date	Time	Course Content
1	26.09.2019	3:00PM-6:00PM	Overview of computational tools in engineering: MATLAB, Python, Simulink, and mor
2	27.09.2019	3:00PM-6:00PM	Installation and setup of tools, Basic programming concepts (variables, functions, loops, conditionals)
3	28.09.2019	3:00PM-6:00PM	MATLAB and Python syntax, Problem-solving using simple scripts and functions.
4	01.10.2019	3:00PM-6:00PM	Working with datasets in MATLAB and Python, Data preprocessing, cleaning, and transformation
5	03.10.2019	3:00PM-6:00PM	Plotting and customizing graphs (2D, 3D, interactive plots) using MATLAB and Python
6	04.10.2019	3:00PM-6:00PM	Handling large datasets, Statistical analysis using Matplotlib, Pandas, and NumPy
7	05.10.2019	3:00PM-6:00PM	Numerical integration and differentiation in MATLAB and Python
8	07.10.2019	3:00PM-6:00PM	Solving linear and nonlinear equations, Monte Carlo simulations.
9	08.10.2019	3:00PM-6:00PM	Simulating physical systems and solving engineering problems using computational tools
10	09.10.2019	3:00PM-6:00PM	Introduction to finite element analysis (FEA)
11	10.10.2019	3:00PM-6:00PM	computational fluid dynamics (CFD) tools.
12	11.10.2019	3:00PM-6:00PM	Signal and image processing techniques using MATLAB
13	12.10.2019	3:00PM-6:00PM	Optimization methods for engineering problems using MATLAB
14	14.10.2019	3:00PM-6:00PM	Optimization methods for engineering

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			problems using Python
15	15.10.2019	3:00PM-6:00PM	System modeling with Simulink
16	16.10.2019	3:00PM-6:00PM	System modeling with , SciPy
17	17.10.2019	3:00PM-6:00PM	System modeling with SymPy
18	18.10.2019	3:00PM-6:00PM	Solving real-world engineering problems using MATLAB
19	19.10.2019	3:00PM-6:00PM	Solving real-world engineering problems using Simulink
20	21.10.2019	4:00PM-6:00PM	Solving real-world engineering problems using Python
21	22.10.2019	5:00PM-6:00PM	Assessment

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:13.09.2019

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Mastering Technical Skills through Guided Problem Solving" Starting from 27.09. 2019.Interested students must register on or before 26.09.2019. The course details are as follows:

- Course Name: Mastering Technical Skills through Guided Problem Solving
- Instructor Name: Aditya Narayan Das
- Contact: 9439177066

Principal

13/09/2019

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:24.09.2019

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: <u>Number of Students Enrolled for the Add-on Course on "Mastering Technical Skills through Guided Problem Solving".</u>

Respected Sir,

We are going to start course on " Mastering Technical Skills through Guided Problem Solving " from 26.09.2019 and a total of 48 Students have enrolled for this course. This is for your kind information.

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:22.10.2019

Mastering in Technical Skills
ASSESSMENT

08/10

Name Of the Student: Manisha Parcida
Regd No: 1601289209

All Questions Compulsory

Q1: Which of the following is essential for continuous learning in the IT industry?
A) Reading books only
B) Watching random YouTube videos
C) Attending workshops and certifications
D) Avoiding new technologies

Q2: What does "soft skills" refer to in a technical job?
A) Technical coding ability
B) Problem-solving and communication skills
C) Knowledge of software tools
D) Learning new programming languages

Q3: Which online learning platform is widely used for upskilling in technology?
A) Netflix B) Udemy C) Facebook D) WhatsApp

Q4: Why is critical thinking important in technical fields?
A) It helps in improving artistic skills
B) It ensures logical problem-solving and decision-making
C) It reduces the need for learning programming
D) It helps in designing only user interfaces

Q5: What does "AI Upskilling" focus on?
A) Learning only basic coding
B) Understanding data-driven decision-making
C) Avoiding automation technologies
D) Only designing robots

Q6: What is the purpose of professional networking in career growth?
A) Gaining insights from industry experts
B) Watching movies with colleagues
C) Avoiding skill development
D) Reducing work responsibilities

Q7: What is one key advantage of self-paced online learning?
A) Fixed schedules
B) Learning at your own convenience
C) No hands-on experience
D) Less engagement with the course

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Q8: What does "technical upskilling" in cloud computing focus on?

A) Learning about cloud storage and computing models

B) Coding without networking knowledge

C) Avoiding cloud technology

D) Only using cloud services without understanding them

Q9: Which soft skill is most useful for team collaboration in technical fields?

A) Public speaking

B) Negotiation skills

C) Effective communication

D) Singing ability

Q10: Why is time management crucial in technical upskilling?

A) It allows better workflow and efficiency

B) It reduces the need for work

C) It only benefits managers

D) It slows down the learning process

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Tridhyamanajaday **Month/Year:** Sept - 2019

Subject Code: **Branch:**

Subject: Technical Skills.

Sl. No	REGD NO	NAME	26.9.2019	27/9	28/9	1/10	3/10	4/10	5/10	7/10	8/10	9/10
1	1601289189	ABHIJIT JENA	1	2	3	4	5	6	7	8	9	10
2	1601289190	ABINASH MISHRA	1	2	3	4	5	6	7	8	9	10
3	1601289191	AMIT KUMAR DAS	1	2	3	4	5	6	7	8	9	10
4	1601289192	AMRITA BINODINI SAHU	1	2	3	4	5	6	7	8	9	10
5	1601289193	AMRITANSHU	1	2	3	4	5	6	7	8	9	10
6	1601289194	ANURADHA RAJ	*	1	2	3	4	5	6	7	8	9
7	1601289195	ASHIRBAD SINGH	1	2	3	4	5	6	7	8	9	10
8	1601289196	ASHIS KUMAR BARIK	1	2	3	4	5	6	7	8	9	10
9	1601289197	BISWAJEET ROUT	1	2	3	4	5	6	7	8	9	10
10	1601289198	CHITTA RANJAN BARIK	X	1	2	3	4	5	6	7	8	9
11	1601289199	DEBASISH PARHI	1	2	3	4	5	6	7	8	9	10
12	1601289200	DEEPAK KUMAR RAY	1	2	3	4	5	6	7	8	9	10
13	1601289201	DURGA PRASAD PANDA	1	2	3	4	5	6	7	8	9	10
14	1601289202	EKTA KUMARI	1	2	3	4	5	6	7	8	9	10
15	1601289205	JAYASHREE TRIPATHY	1	2	3	4	5	6	7	8	9	10
16	1601289206	JULI KUMARI	1	2	3	4	5	6	7	8	9	10
17	1601289207	KAMALESH DAS	1	2	3	4	5	6	7	8	9	10
18	1601289208	MALAYA KUMAR BARIK	1	2	3	4	5	6	7	8	9	10
19	1601289209	MANISHA PARIDA	1	2	3	4	5	6	7	8	9	10
20	1601289210	MANOJ KUMAR DASH	1	2	3	4	5	6	7	8	9	10
21	1601289211	MD JANESHAR AKHTAR	1	2	3	4	5	6	7	8	9	10
22	1601289212	PRIYAMBADA JENA	1	2	3	4	5	6	7	8	9	10
23	1601289213	RAHUL KUMAR	1	2	3	4	5	6	7	8	9	10
24	1601289214	RAHUL SETHI	1	2	3	4	5	6	7	8	9	10
25	1601289215	RAJALAXMI PANDA	X	1	2	3	4	5	6	7	8	9
26	1601289216	RAM CHANDRA HEMBRAM	*	1	2	3	4	5	6	7	8	9
27	1601289217	RAVI KANT VERMA	1	2	3	4	5	6	7	8	9	10
28	1601289218	RICHA SATPATHY	1	2	3	4	5	6	7	8	9	10
29	1601289219	RUPESH KUMAR NISANKA	1	2	3	4	5	6	7	8	9	10
30	1601289220	SANCHITA JENA	1	2	3	4	5	6	7	8	9	10
31	1601289221	SANDIP KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
32	1601289224	SHASHIKANTA SAHOO	1	2	3	4	5	6	7	8	9	10
33	1601289225	SHRADHA SUPRITA PRUSTY	1	2	3	4	5	6	7	8	9	10
34	1601289226	SHUBHAJEET DEY	1	2	3	4	5	6	7	8	9	10

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35	1601289227	SHUBHAM KUMAR SINGH	X	1	2	3	4	5	6	7	8	9
36	1601289228	SOUBHAGYA SINGH	1	2	3	4	5	6	7	8	9	10
37	1601289229	SOUMYASHREE DEY	1	2	3	4	5	6	7	8	9	10
38	1601289230	SOWMAYA RANJAN JENA	1	2	3	4	5	6	7	8	9	10
39	1601289231	SUBHAM SUSEKHAR PANI	1	2	3	4	5	6	7	8	9	10
40	1601289232	SUBHASHREE DEOBABU	1	2	3	4	5	6	7	8	9	10
41	1601289233	SUPRIYA MALLICK	1	2	3	4	5	6	7	8	9	10
42	1601289234	SURAJ DAS	1	2	3	4	5	6	7	8	9	10
43	1601289235	SURBHI SUMAN	1	2	3	4	5	6	7	8	9	10
44	1601289236	SURYAKANTA BEHERA	1	2	3	4	5	6	7	8	9	10
45	1601289237	SUVAM BASU	1	2	3	4	5	6	7	8	9	10
46	1601289238	SWATI HOTA	X	1	2	3	4	5	6	7	8	9
47	1601289239	TILAK KUMAR DASH	1	2	3	4	5	6	7	8	9	10
48	1601289240	VISHAL SEN	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanarayan Mishra

Month/Year: Sept, 2014

Subject Code:

Branch:

Subject: Technical Skill,

Sl. No	REGD NO	NAME	10/10	11/10	12/10	14/10	15/10	16/10	17/10	18/10	19/10	21/10
1	1601289189	ABHIJIT JENA	11	12	13	14	15	16	X	17	18	19
2	1601289190	ABINASH MISHRA	11	12	13	14	X	15	16	17	18	19
3	1601289191	AMIT KUMAR DAS	11	12	13	14	X	X	15	16	17	18
4	1601289192	AMRITA BINODINI SAHU	11	12	13	14	15	16	17	18	19	20
5	1601289193	AMRITANSHU	11	12	13	14	15	16	17	18	19	20
6	1601289194	ANURADHA RAJ	10	11	12	13	X	14	15	16	X	17
7	1601289195	ASHIRBAD SINGH	11	12	13	14	15	16	17	18	19	20
8	1601289196	ASHIS KUMAR BARIK	11	12	13	14	15	16	17	18	19	20
9	1601289197	BISWAJEET ROUT	11	12	13	14	15	16	17	18	19	20
10	1601289198	CHITTA RANJAN BARIK	10	11	12	13	14	15	16	17	18	19
11	1601289199	DEBASISH PARHI	11	12	13	14	15	16	17	18	19	20
12	1601289200	DEEPAK KUMAR RAY	11	12	13	14	15	16	17	18	19	20
13	1601289201	DURGA PRASAD PANDA	11	12	13	14	15	16	17	18	19	20
14	1601289202	EKTA KUMARI	11	12	13	14	15	16	17	18	19	20
15	1601289205	JAYASHREE TRIPATHY	11	12	13	14	15	16	17	18	19	20
16	1601289206	JULI KUMARI	11	12	13	14	15	16	17	18	19	20
17	1601289207	KAMALESH DAS	11	12	13	14	15	16	17	18	19	20
18	1601289208	MALAYA KUMAR BARIK	11	12	13	14	15	16	X	17	18	19
19	1601289209	MANISHA PARIDA	11	12	13	14	15	16	17	18	19	20
20	1601289210	MANOJ KUMAR DASH	11	12	13	14	15	16	17	18	19	20
21	1601289211	MD JANESHAR AKHTAR	11	12	13	14	15	16	X	17	18	19
22	1601289212	PRIYAMBADA JENA	11	12	13	14	15	16	17	18	19	20
23	1601289213	RAHUL KUMAR	11	12	13	14	15	16	17	18	19	20
24	1601289214	RAHUL SETHI	11	12	13	14	15	16	17	18	19	20
25	1601289215	RAJALAXMI PANDA	10	11	12	13	X	14	15	16	17	18
26	1601289216	RAM CHANDRA HEMBRAM	10	11	12	13	14	15	16	17	18	19
27	1601289217	RAVI KANT VERMA	11	12	13	14	15	16	17	18	19	20
28	1601289218	RICHA SATPATHY	11	12	13	14	15	16	17	18	19	20
29	1601289219	RUPESH KUMAR NISANKA	11	12	13	14	15	X	16	17	18	19
30	1601289220	SANCHITA JENA	11	12	13	14	15	16	17	18	19	20
31	1601289221	SANDIP KUMAR NAYAK	11	12	13	14	15	X	16	17	18	19
32	1601289224	SHASHIKANTA SAHOO	11	12	13	14	15	16	17	18	19	20
33	1601289225	SHRADHA SUPRITA PRUSTY	11	12	13	14	15	16	17	18	19	20
34	1601289226	SHUBHAJEET DEY	11	12	13	14	15	X	16	17	18	19

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35	1601289227	SHUBHAM KUMAR SINGH	10	11	12	13	14	15	X	16	17	18
36	1601289228	SOUBHAGYA SINGH	11	12	13	14	15	X	16	17	18	19
37	1601289229	SOUMYASHREE DEY	11	12	13	14	15	X	16	17	18	19
38	1601289230	SOWMAYA RANJAN JENA	11	12	13	14	15	16	17	18	19	20
39	1601289231	SUBHAM SUSEKHAR PANI	11	12	13	14	15	16	17	18	19	20
40	1601289232	SUBHASHREE DEOBABU	11	12	13	14	15	16	17	X	18	19
41	1601289233	SUPRIYA MALLICK	11	12	13	14	15	16	17	18	X	19
42	1601289234	SURAJ DAS	11	12	13	14	15	16	17	X	18	19
43	1601289235	SURBHI SUMAN	11	12	13	14	15	16	17	18	19	20
44	1601289236	SURYAKANTA BEHERA	11	12	13	14	15	16	17	18	X	19
45	1601289237	SUVAM BASU	10	11	12	13	14	15	16	17	18	19
46	1601289238	SWATI HOTA	11	12	13	14	15	16	X	17	18	19
47	1601289239	TILAK KUMAR DASH	11	12	13	14	15	16	17	18	19	20
48	1601289240	VISHAL SEN	11	12	13	14	15	16	17	X	X	18

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Aditya Narayan Das **Month/Year:** Sept. 2019

Subject Code: **Branch:**

Subject: Technical Skill.

Sl. No	REGD NO	NAME	22/10									
1	1601289189	ABHIJIT JENA	20									
2	1601289190	ABINASH MISHRA	20									
3	1601289191	AMIT KUMAR DAS	19									
4	1601289192	AMRITA BINODINI SAHU	21									
5	1601289193	AMRITANSHU	21									
6	1601289194	ANURADHA RAJ	18									
7	1601289195	ASHIRBAD SINGH	21									
8	1601289196	ASHIS KUMAR BARIK	21									
9	1601289197	BISWAJEET ROUT	21									
10	1601289198	CHITTA RANJAN BARIK	20									
11	1601289199	DEBASISH PARHI	21									
12	1601289200	DEEPAK KUMAR RAY	21									
13	1601289201	DURGA PRASAD PANDA	21									
14	1601289202	EKTA KUMARI	21									
15	1601289205	JAYASHREE TRIPATHY	21									
16	1601289206	JULI KUMARI	21									
17	1601289207	KAMALESH DAS	21									
18	1601289208	MALAYA KUMAR BARIK	20									
19	1601289209	MANISHA PARIDA	21									
20	1601289210	MANOJ KUMAR DASH	21									
21	1601289211	MD JANESHAR AKHTAR	20									
22	1601289212	PRIYAMBADA JENA	21									
23	1601289213	RAHUL KUMAR	21									
24	1601289214	RAHUL SETHI	21									
25	1601289215	RAJALAXMI PANDA	19									
26	1601289216	RAM CHANDRA HEMBRAM	21									
27	1601289217	RAVI KANT VERMA	21									
28	1601289218	RICHA SATPATHY	20									
29	1601289219	RUPESH KUMAR NISANKA	20									
30	1601289220	SANCHITA JENA	21									
31	1601289221	SANDIP KUMAR NAYAK	29									
32	1601289224	SHASHIKANTA SAHOO	21									
33	1601289225	SHRADHA SUPRITA PRUSTY	21									
34	1601289226	SHUBHAJEET DEY	20									

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35	1601289227	SHUBHAM KUMAR SINGH	19										
36	1601289228	SOUBHAGYA SINGH	20										
37	1601289229	SOUMYASHREE DEY	20										
38	1601289230	SOWMAYA RANJAN JENA	21										
39	1601289231	SUBHAM SUSEKHAR PANI	21										
40	1601289232	SUBHASHREE DEOBABU	20										
41	1601289233	SUPRIYA MALLICK	X										
42	1601289234	SURAJ DAS	20										
43	1601289235	SURBHI SUMAN	20										
44	1601289236	SURYAKANTA BEHERA	21										
45	1601289237	SUVAM BASU	20										
46	1601289238	SWATI HOTA	20										
47	1601289239	TILAK KUMAR DASH	21										
48	1601289240	VISHAL SEN	19										

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 05.09.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar,
Patia

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B. Tech & MCA students.

Respected Sir,

As per our departmental meeting held on 04.09.2019, we are planning to start an add-on course "Mastering Python through Guided Problem Solving" from 16.09.2019. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 40 hrs.
Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [10 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [10 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [10 periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly
- Working with large datasets

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- Case study: Data analysis of real-world data

Module-IV: Advanced Python Topics [10 periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with Beautiful Soup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.

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- **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).
- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Subhra Swetanisha

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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Mastering Python through Guided Problem Solving

SCHEDULE

Sl No	Date	Time	Course Content
1	16. 09.2019	3:00PM-6.00PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	17. 09.2019	3:00PM-6.00PM	Data types, variables, operators, and control structures (loops and conditionals)
3	18. 09.2019	3:00PM-6.00PM	Functions, modules, packages, debugging techniques, and exception handling
4	19. 09.2019	3:00PM-6.00PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	20. 09.2019	3:00PM-6.00PM	Stacks, Queues, Linked Lists, and their applications
6	21. 09.2019	3:00PM-6.00PM	Sorting and searching algorithms, time and space complexity analysis
7	23. 09.2019	3:00PM-6.00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	24. 09.2019	3:00PM-6.00PM	Data visualization with Matplotlib, Seaborn, and interactive plots using Plotly
9	25. 09.2019	3:00PM-6.00PM	Working with large datasets
10	26. 09.2019	3:00PM-6.00PM	Working with large datasets with solving various question.
11	27. 09.2019	3:00PM-6.00PM	case study on real-world data analysis
12	28. 09.2019	3:00PM-6.00PM	OOP concepts in Python:
13	30.09.2019	3:00PM-6.00PM	OOP Classes, Objects, and Methods
14	01.10.2019	5:00PM-6.00PM	Assessment

Subhra Swetanisha

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:07.09.2019

This is to inform all B. Tech & MCA students that the department of CSE will start an add-on certificate course on "Mastering Python through Guided Problem Solving" starting from 16.09.2019. Interested students must register on or before 13.09.2019. The course details are as follows:

- Course Name: Mastering Python through Guided Problem Solving
- Instructor Name: Subhra Swetanisha
- Registration Contact: 8249857798

Principal 09/09/19

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Trident Academy of Technology
Bhubaneswar-751024

Date:14.09.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start a course on "Mastering Python through Guided Problem Solving" from 16.09.2019 and a total of 16 Students have enrolled for this course. This is for your kind information.

Subhra Swetanisha

(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:01.10.2019

PYTHON
ASSESSMENT

10/10

Name Of the Student: Amit Sarkar
Regd No: 1601289193

All Questions Compulsory

Q1: Which of the following is a valid Python variable name?
A) 2var B) my_var C) for D) -variable

Q2: What is the output of print(type(5))?
A) <class 'float'> B) <class 'str'>
C) <class 'int'> D) <class 'bool'>

Q3: What keyword is used to define a function in Python?
A) func B) define C) def D) function

Q4: How do you create a list in Python?
A) list = {1,2,3} B) list = [1,2,3]
C) list = (1,2,3) D) list = 1,2,3

Q5: What does the break statement do in a loop?
A) Skips the current iteration
B) Exits the loop immediately
C) Restarts the loop
D) Pauses the execution

Q6: Which of the following is not a Python data structure?
A) List B) Tuple C) Array D) Set

Q7: How do you open a file in Python for reading?
A) open('file.txt', 'r') B) open('file.txt', 'w')
C) open('file.txt', 'rb') D) open('file.txt', 'a')

Q8: Which module is used for handling regular expressions in Python?
A) regex B) re C) reg D) pattern

Q9: What is the main purpose of the Pandas library in Python?
A) Machine Learning B) Web Scraping
C) Data Manipulation D) Image Processing

Q10: What will be the output of bool([])?
A) True B) False C) None D) Error

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Subhra Swetanisha **Month/Year:** 9/2019

Subject Code: **Branch:**

Subject: Mastering Python

Sl. No	REGD NO	NAME	16/09	17/09	18/09	19/09	20/09	21/09	23/09	24/09	25/09	26/09
1	1601289212	PRIYAMBADA JENA	1	2	3	4	5	6	7	8	X	9
2	1601289213	RAHUL KUMAR	1	X	2	3	4	5	6	7	8	9
3	1601289214	RAHUL SETHI	1	2	X	3	4	5	6	7	8	9
4	1601289215	RAJALAXMI PANDA	1	2	3	X	4	5	6	7	8	9
5	1601289216	RAM CHANDRA HEMBRAM	1	2	3	4	X	5	6	7	8	9
6	1601289217	RAVI KANT VERMA	1	2	3	X	4	5	6	7	8	9
7	1601289192	AMRITA BINODINI SAHU	1	2	3	4	X	5	6	7	8	9
8	1601289193	AMRITANSHU	1	2	3	4	5	6	X	7	8	9
9	1601289194	ANURADHA RAJ	1	2	3	4	5	X	6	7	8	9
10	1601289195	ASHIRBAD SINGH	1	2	3	4	5	6	X	7	8	9
11	1601289196	ASHIS KUMAR BARIK	1	2	3	4	5	6	7	8	X	9
12	1601289197	BISWAJEET ROUT	1	X	2	3	4	5	6	7	8	9
13	1601289397	SAMEEKSHA PATTNAIK	1	2	3	4	X	5	6	7	8	9
14	1601289398	SATYAKAM SARANGI	1	2	3	X	4	5	6	7	8	9
15	1601289399	SAYAN GHOSH	1	X	2	3	4	5	6	7	8	9
16	1601289400	SOUMYARANJAN DAS	1	2	3	4	5	6	7	X	8	9

Signature of Teacher

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Subhra Swetanisha **Month/Year:** 9/2019

Subject Code: **Branch:**

Subject: Mastering Python

Sl. No	REGD NO	NAME	27/09	28/09	29/09	01/10						
1	1601289212	PRIYAMBADA JENA	10	11	12	13						
2	1601289213	RAHUL KUMAR	10	11	12	13						
3	1601289214	RAHUL SETHI	10	11	12	13						
4	1601289215	RAJALAXMI PANDA	10	X	11	12						
5	1601289216	RAM CHANDRA HEMBRAM	10	11	12	13						
6	1601289217	RAVI KANT VERMA	10	11	12	13						
7	1601289192	AMRITA BINODINI SAHU	10	11	12	13						
8	1601289193	AMRITANSHU	10	11	12	13						
9	1601289194	ANURADHA RAJ	10	11	12	13						
10	1601289195	ASHIRBAD SINGH	10	11	12	13						
11	1601289196	ASHIS KUMAR BARIK	X	10	11	12						
12	1601289197	BISWAJEET ROUT	10	11	12	13						
13	1601289397	SAMEEKSHA PATTNAIK	10	11	12	13						
14	1601289398	SATYAKAM SARANGI	10	11	12	13						
15	1601289399	SAYAN GHOSH	10	11	12	13						
16	1601289400	SOUMYARANJAN DAS	10	11	12	13						

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:17.09.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Mastering Java Programming" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 16.09.2019, we are planning to start an add-on course on "Mastering Java Programming" from 27.09.2019 for our B. Tech students. The objective of this course is to provide a strong foundation in Java for our students with the necessary skills to develop real-world applications. The course duration and schedule are attached for your approval.

Thanking You,

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

Mastering Java Programming

Total Lecture Periods: 40 hrs

Course Objectives:

This course is designed to provide students with a comprehensive understanding of the Java programming language, covering both basic and advanced concepts. Students will gain hands-on experience in Java development, preparing them for industry-level programming tasks and enhancing their problem-solving abilities. The course will also prepare students for coding interviews, competitive exams, and software development roles.

MODULES

Module-I: Introduction to Java Programming [10 periods]

- Overview of Java and its features
- Setting up the Java development environment (JDK, IDEs)
- Basic syntax, variables, data types, and operators
- Control structures (if-else, switch, loops)
- Functions and methods
- Object-Oriented Programming (OOP) basics: Classes, Objects, and Methods

Module-II: Advanced Java Concepts [10 periods]

- Object-Oriented Programming (OOP) Concepts: Inheritance, Polymorphism, Encapsulation, and Abstraction
- Exception Handling: Try-Catch, Finally, Throw, and Throws
- Java Collections Framework: List, Set, Map, Queue, etc.
- Generics and Iterators
- Multi-threading and Concurrency

Module-III: Java GUI and File I/O [10 periods]

- Introduction to Java Swing for GUI development
- Event handling and GUI components (Buttons, Text Fields, Panels, etc.)
- File I/O (Input/Output streams, File Reader, File Writer)
- Serialization in Java

Module-IV: Database Connectivity and Advanced Topics [10 periods]

- Introduction to JDBC (Java Database Connectivity)
- Connecting Java applications with databases (MySQL/PostgreSQL)
- CRUD operations using JDBC
- Lambda expressions and Streams API in Java 8
- Introduction to Java Frameworks (Spring, Hibernate)

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- Basic Introduction to Java-based Web Development (Servlets, JSP)

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Write Java programs using object-oriented principles.
- **CO2**: Understand and apply advanced Java concepts like multi-threading, exception handling, and database connectivity.
- **CO3**: Develop graphical user interfaces (GUIs) using Java Swing.
- **CO4**: Connect Java applications with relational databases using JDBC.
- **CO5**: Solve real-world programming problems using Java's advanced features (e.g., streams, lambdas, etc.).
- **CO6**: Work on projects involving Java and integrate external libraries and frameworks.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificate will be awarded to students who successfully complete the course and assessment.

Suggested Learning Resources

- **Books**:
    1. "Head First Java" by Kathy Sierra and Bert Bates
    2. "Effective Java" by Joshua Bloch

Rahul Ranjan
(Course Instructor)

(HOD, CSE)
HOD
Computer Science Engg.

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SCHEDULE

Mastering Java Programming

Sl No	Date	Time	Course Content
1	27.09.2019	3:00PM-6:00PM	Overview of Java and its features, Setting up the Java development environment (JDK, IDEs)
2	28.09. 2019	3:00PM-6:00PM	Basic syntax, variables, data types, and operators, Control structures (if-else, switch, loops)
3	30.09. 2019	3:00PM-6:00PM	Functions and methods, Classes, Objects, and Methods
4	01.10. 2019	3:00PM-6:00PM	Inheritance, Polymorphism, Encapsulation, and Abstraction
5	04.10. 2019	3:00PM-6:00PM	Try-Catch, Finally, Throw, and Throws, Java Collections Framework (List, Set, Map, Queue)
6	05.10. 2019	3:00PM-6:00PM	Generics, Iterators, Multi-threading, and Concurrency
7	07.10. 2019	3:00PM-6:00PM	Java Swing for GUI, Event handling, GUI components (Buttons, Text Fields, Panels, etc.)
8	08.10. 2019	3:00PM-6:00PM	Input/Output streams, File Reader
9	09.10. 2019	3:00PM-6:00PM	JDBC basics, Connecting Java applications to databases (MySQL/PostgreSQL)
10	10.10. 2019	3:00PM-6:00PM	Lambda expressions, Streams API, I
11	11.10. 2019	3:00PM-6:00PM	introduction to frameworks (Spring, Hibernate),
12	12.10. 2019	3:00PM-6:00PM	File Writer, Serialization in Java
13	13.10. 2019	3:00PM-6:00PM	CRUD operations using JDBC
14	14.10. 2019	5:00PM-6:00PM	Assessment

Rahul Ranjan
(Course Instructor)

(HOD, CSE)
HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:20.09.2019

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Mastering Java Programming" starting from 27.09.2019. Interested students must register by 25.09.2019. The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Rahul Ranjan
- Registration Contact:9437920600

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 24.09.2019

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering Java Programming".

Respected Sir,

We are going to start a course on " Mastering Java Programming " from 27.09.2019 and a total of 18 Students have enrolled for this course. This is for your kind information.

Rahul Ranjan
(Course Instructor)

(HOD, CSE)
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:14.10.2019

JAVA
ASSESSMENT

Name Of the Student: Abhishek Kumar
Regd No: 1601289274

09/10

All Questions Compulsory

Q1: What is the default value of a String variable in Java?
A) null B) " (empty string)"
C) "default" D) "undefined"

Q2: Which of the following is NOT a valid Java data type?
A) char B) int C) double D) number

Q3: What is the purpose of the static keyword in Java?
A) It makes a variable constant
B) It associates a method/variable with a class rather than an instance
C) It allows runtime changes to a method
D) It prevents inheritance

Q4: Which of the following is a correct way to declare an array in Java?
A) int arr(5); B) int[] arr = new int[5];
C) arr = new int(5); D) array<int> arr = new array<int>(5);

Q5: Which Java keyword is used to prevent method overriding?
A) private B) protected C) final D) abstract

Q6: Which class in Java is used for handling file operations?
A) FileManager B) File C) Files D) FileIO

Q7: What is the output of 10 % 3 in Java?
A) 3 B) 1 C) 0 D) 10

Q8: What is the superclass of all classes in Java?
A) Object B) Main
C) BaseClass D) Root

Q9: Which of the following collections does NOT allow duplicate elements?
A) ArrayList
B) LinkedList
C) HashSet
D) Vector

Q10: Which of the following is an interface in Java?
A) ArrayList
B) Runnable
C) LinkedList
D) HashMap

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: RAHUL RANJAN

Month/Year: 9/19

Subject Code:

Branch:

Subject: Mastering in Java programming

Sl. No	REGD NO	NAME	27/09	28/09	30/09	01/10	04/10	05/10	07/10	08/10	09/10	10/10
1	1601289272	ABHILASH KANUNGO	1	2	3	4	5	x	6	7	8	9
2	1601289273	ABHISEK MISHRA	1	2	3	4	5	6	7	8	x	9
3	1601289274	ABHISHEK KUMAR	1	2	3	4	x	5	6	7	8	9
4	1601289275	ABINASH BHUTIA	x	1	2	3	4	5	6	7	8	9
5	1601289276	ABINASH MOHAPATRA	1	2	x	3	4	5	6	x	7	8
6	1601289277	ADARSH KUMAR SINGH	1	2	3	4	5	6	x	7	x	8
7	1601289278	ADITYA DASH	1	2	3	4	5	x	6	7	8	x
8	1601289279	AJAYA KUMAR DAS	1	2	3	4	5	6	7	x	8	9
9	1601289280	AMAN ANSUMAN SAHOO	x	1	2	3	4	5	x	6	7	8
10	1601289281	AMAN KUMAR PANDEY	1	2	3	4	x	5	6	7	8	9
11	1601289282	ANTO MAJHI	1	2	x	3	4	5	6	7	x	8
12	1601289283	ASHUTOSH SWAIN	1	2	3	4	5	6	7	8	9	x
13	1601289284	ASISH PRADHAN	1	x	2	3	4	5	6	7	8	9
14	1601289285	BHABANI SANKAR JENA	1	2	3	4	5	6	7	8	9	10
15	1601289286	BHABANI SHANKAR SAHOO	1	2	3	4	5	6	7	8	9	10.
16	1601289287	BIBEKANANDA DAS ADHIKARI	1	2	3	4	5	6	7	8	9	10
17	1601289288	DIBYARANJANKABI	1	2	3	x	4	5	6	7	8	9
18	1601289289	GOURAV NAIK	1	x	2	x	3	4	5	6	7	8

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: RAHUL RANJAN **Month/Year:** 9/19

Subject Code: **Branch:**

Subject: Mastering in Java Programming

Sl. No	REGD NO	NAME	11/10	12/10	13/10	14/10						
1	1601289272	ABHILASH KANUNGO	10	11	12	13						
2	1601289273	ABHISEK MISHRA	10	11	12	13						
3	1601289274	ABHISHEK KUMAR	X	10	11	12						
4	1601289275	ABINASH BHUTIA	10	11	12	13						
5	1601289276	ABINASH MOHAPATRA	9	10	X	11						
6	1601289277	ADARSH KUMAR SINGH	9	10	11	X						
7	1601289278	ADITYA DASH	9	10	11	12						
8	1601289279	AJAYA KUMAR DAS	10	11	12	13						
9	1601289280	AMAN ANSUMAN SAHOO	9	10	11	X						
10	1601289281	AMAN KUMAR PANDEY	10	11	12	13						
11	1601289282	ANTO MAJHI	X	09	10	11						
12	1601289283	ASHUTOSH SWAIN	10	11	12	13						
13	1601289284	ASISH PRADHAN	10	11	X	12						
14	1601289285	BHABANI SANKAR JENA	11	12	13	14						
15	1601289286	BHABANI SHANKAR SAHOO	11	12	13	14						
16	1601289287	BIBEKANANDA DAS ADHIKARI	11	12	13	14						
17	1601289288	DIBYARANJANKABI	10	11	12	13						
18	1601289289	GOURAV NAIK	09	10	11	12						

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:04.09.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Web Development through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 03.09.2019, we are planning to start a course "Mastering Web Development through Guided Problem Solving" from 17.09.2019. The objective of the course is to give fundamental knowledge of front-end and back-end web development to our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Web Development through Guided Problem Solving

Total Lecture Periods: 40 hrs

Course Objectives:

This course aims to enhance students' proficiency in Web Development by using guided problem-solving exercises. It provides students with the skills to design, develop, and deploy fully functional web applications while gaining hands-on experience in various web technologies.

MODULE-I: Introduction to Web Development [10 periods]

- **Topics:** Basics of web technologies, HTML5, CSS3, and JavaScript fundamentals.

MODULE-II: Front-End Development [10 periods]

- **Topics:** Advanced JavaScript, responsive web design, and frameworks like Bootstrap.

MODULE-III: Back-End Development [10 periods]

- **Topics:** Introduction to server-side scripting using Node.js, database integration with MySQL/MongoDB, and REST APIs.

MODULE-IV: Full-Stack Web Application Development [10 periods]

- **Topics:** Integrating front-end and back-end, project deployment, and case studies.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand the structure and components of a web application.
CO2: Design responsive and visually appealing web interfaces.
CO3: Develop dynamic web applications using server-side technologies.
CO4: Integrate databases into web applications for data storage and retrieval.

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CO5: Deploy full-stack web applications.
CO6: Collaborate on group projects involving web technologies.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. "HTML and CSS: Design and Build Websites" by Jon Duckett
2. "JavaScript and JQuery: Interactive Front-End Web Development" by Jon Duckett

Partha Sarathi Mohapatra

Partha Sarathi Mohapatra

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

ATTESTED

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Web Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	17/09/2019	3:00PM-6:00PM	Overview of web technologies, Introduction to HTML5 (elements, forms, multimedia)
2	18/09/2019	3:00PM-6:00PM	CSS3 fundamentals (selectors, properties, layouts), JavaScript basics (syntax, DOM manipulation)
3	19/09/2019	3:00PM-6:00PM	JavaScript ES6 features, event handling, and asynchronous programming
4	20/09/2019	3:00PM-6:00PM	Principles of responsive design, using frameworks like Bootstrap
5	21/09/2019	3:00PM-6:00PM	Basics of Node.js for server-side scripting and working with REST APIs
6	23/09/2019	3:00PM-6:00PM	Connecting databases to back-end
7	24/09/2019	3:00PM-6:00PM	implementing RESTful APIs for web applications
8	25/09/2019	3:00PM-6:00PM	Integrating front-end with back-end to create dynamic web applications
9	26/09/2019	3:00PM-6:00PM	Deploying web applications using platforms like Heroku, Netlify, or AWS
10	27/09/2019	3:00PM-6:00PM	Database operations using MySQL and MongoDB, connecting databases to back-end
11	28/09/2019	3:00PM-6:00PM	Designing and implementing web applications
12	30/09/2019	3:00PM-6:00PM	Integrating web applications
13	01/10/2019	3:00PM-6:00PM	web applications using NAWS
14	03/10/2019	5:00PM-6:00PM	Assessment

Partha Sarathi Mohapatra

Partha Sarathi Mohapatra

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:06.09.2019

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Mastering Web Development through Guided Problem Solving" Starting from 17.09.2019. Interested students must register by 14.09.2019. The course details are as follows:

Course name: Mastering Web Development through Guided Problem Solving

Instructor name: Mr Partha Sarathi Mohapatra

Concerned person for Registration: Mr. Partha Sarathi Mohapatra

Principal 06/09/19

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:16.09.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Respected Sir,

The following are the attached list of students from different specializations who have enrolled for the value-added course on "Mastering Web Development through Guided Problem Solving":

Sl. No.	Reg. Number	Name
1	1601289036	ASHUTOSH PANDA
2	1601289037	ASHUTOSH SAHOO
3	1601289038	ASHUTOSH SWAIN
4	1601289039	ASISH KUMAR SHARMA
5	1601289040	ASUTOSH NAYAK
6	1601289041	AYUSI PAHADASINGH
7	1601289042	BANITA JAIPURIA
8	1601289043	BARUNESH PANDA
9	1601289044	BIBHU PRASAD PATRA
10	1601289045	BIMALKUMARGHADEI
11	1601289046	BISHNU BIBHAB DAS
12	1601289047	BISWABHUSAN DIXIT
13	1601289060	HIRANMAYEE DASH
14	1601289061	JAGRITI DAS

Partha Sarathi Mohapatra
Partha Sarathi Mohapatra

(Course Instructor)

PC Dhal
(HOD, CSE)

HOD
Computer Science Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:03.10.2019

Web Developer
ASSESSMENT

09/10

Name Of the Student: Snigdhi Das
Regd No: 1601289061

All Questions Compulsory

Q1: Which language is used for styling web pages?
A) HTML B) CSS C) JavaScript D) Python

Q2: What does HTML stand for?
A) Hyper Transfer Markup Language
B) High Tech Modern Language
C) HyperText Markup Language
D) Home Tool Machine Learning

Q3: Which of the following is a JavaScript framework?
A) Django B) Flask C) React D) Laravel

Q4: What is the purpose of in HTML?
A) To create a hyperlink
B) To create a table
C) To define a section or container
D) To define a heading

Q5: What does CSS stand for?
A) Creative Style Sheets
B) Cascading Style Sheets
C) Computer Style Sheets
D) Custom Style System

Q6: Which of the following is used for responsive web design?
A) Bootstrap B) jQuery C) Django D) PHP

Q7: Which JavaScript function is used to display a message box?
A) alert() B) display() C) messageBox() D) popup()

Q8: What is the purpose of position: absolute; in CSS?
A) It places the element relative to its normal position
B) It positions the element based on the browser window
C) It places the element relative to its nearest positioned ancestor
D) It hides the element

Q9: Which tag is used to link an external CSS file in HTML?
A) <link>
B) <style>
C) <script>
D) <css>

Q10: What is AJAX used for?
A) To create animations
B) To fetch data asynchronously without reloading the page
C) To improve website design
D) To manage user authentication

Parartha Sarathi Mohapatra

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Paratha Sarathi Mohapatra

Month/Year: Sept. 2019

Subject Code:

Branch:

Subject: Mastering in Web development

Sl. No	REGD NO	NAME	17/09	18/09	19/09	20/09	21/09	23/09	24/09	25/09	26/09	27/09
1	1601289036	ASHUTOSH PANDA	1	2	3	4	5	6	7	8	9	10
2	1601289037	ASHUTOSH SAHOO	1	2	3	4	5	6	7	8	9	10
3	1601289038	ASHUTOSH SWAIN	1	2	3	4	X	5	6	7	8	9
4	1601289039	ASISH KUMAR SHARMA	X	1	2	3	4	5	X	6	7	8
5	1601289040	ASUTOSH NAYAK	X	1	2	3	4	5	6	7	8	9
6	1601289041	AYUSI PAHADASINGH	1	2	3	4	5	6	7	8	9	10
7	1601289042	BANITA JAIPURIA	1	2	X	X	3	4	5	6	7	8
8	1601289043	BARUNESH PANDA	1	2	3	4	5	6	7	8	9	10
9	1601289044	BIBHU PRASAD PATRA	1	2	3	4	5	6	7	8	9	10
10	1601289045	BIMALKUMARGHADEI	1	2	3	4	5	6	7	8	9	10
11	1601289046	BISHNU BIBHAB DAS	1	2	3	4	X	5	X	6	7	8
12	1601289047	BISWABHUSAN DIXIT	X	1	2	3	4	X	5	6	7	8
13	1601289060	HIRANMAYEE DASH	X	1	2	3	4	5	X	6	7	8
14	1601289061	JAGRITI DAS	1	2	3	4	5	6	7	8	9	10

Paratha Sarathi Mohapatra

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Partha Sarathi Mohapatra

Subject Code:

Month/Year: Sept. 2019

Branch:

Subject: Mastering in Web development

Sl. No	REGD NO	NAME	28/09	30/9	1/10	3/10						
1	1601289036	ASHUTOSH PANDA	11	12	13	14						
2	1601289037	ASHUTOSH SAHOO	11	12	13	14						
3	1601289038	ASHUTOSH SWAIN	10	11	12	13						
4	1601289039	ASISH KUMAR SHARMA	9	10	11	12						
5	1601289040	ASUTOSH NAYAK	10	11	12	13						
6	1601289041	AYUSI PAHADASINGH	X	11	X	12						
7	1601289042	BANITA JAIPURIA	9	10	11	12						
8	1601289043	BARUNESH PANDA	11	12	13	14						
9	1601289044	BIBHU PRASAD PATRA	11	12	X	X						
10	1601289045	BIMALKUMARGHADEI	11	12	13	14						
11	1601289046	BISHNU BIBHAB DAS	X	9	10	11						
12	1601289047	BISWABHUSAN DIXIT	X	9	10	11						
13	1601289060	HIRANMAYEE DASH	9	10	11	12						
14	1601289061	JAGRITI DAS	11	12	13	14						

Partha Sarathi Mohapatra

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:05.08.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering CATIA for Engineering Design" for B. Tech students

Respected Sir,

As per our departmental meeting held on 04.08.2019, we are planning to start a course titled "Mastering CATIA for Engineering Design" from 19.08.2019. The objective of this course is to provide students with foundational and advanced knowledge of CATIA, focusing on 3D modelling, assembly design, surface modelling, and real-world engineering applications. The course aims to equip our students with practical CAD skills that are essential for product design and engineering analysis.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, Mech)

HOD
Mechanical Engineering

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering CATIA for Engineering Design

Total Lecture Periods: 40 hrs

Course Objectives:

- This course is designed to enhance students' proficiency in CATIA software through hands-on, guided exercises. Students will gain a solid foundation in 3D modelling and learn how to apply CATIA tools for engineering design, product development, and simulation.

MODULES

Module-I: Introduction to CATIA and Basic Sketching [12 periods]

- Overview of CATIA and its capabilities
- Understanding the CATIA interface and workbenches
- Basic sketching tools and constraints
- Creating and modifying sketches
- Geometrical constraints and dimensioning

Module-II: Part Design and Solid Modeling [12 periods]

- Introduction to Part Design workbench
- Creating 3D models using extrusion and revolution techniques
- Boolean operations and feature-based modeling
- Fillets, chamfers, patterns, and shelling
- Design modifications and parametric modeling

Module-III: Assembly Design and Surface Modeling [8 periods]

- Introduction to Assembly workbench
- Assembling components and defining constraints
- Exploded views and bill of materials (BOM)
- Surface modeling basics and advanced surface design
- Freeform surface creation and editing

Module-IV: Drafting, Simulation, and Applications [8 periods]

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Principal
Trident Academy of Technology
Bhubaneswar-751024

- Drafting and detailing in CATIA
- Creating engineering drawings with dimensions and annotations
- Introduction to Finite Element Analysis (FEA) in CATIA
- Motion simulation and kinematic analysis
- Industry case studies and project-based learning

Course Outcomes:

Upon successful completion of the course, students will be able to:

- CO1: Understand the core functionalities of CATIA and its applications in engineering design.
- CO2: Develop 2D sketches and convert them into 3D models using solid modeling techniques.
- CO3: Assemble multiple components with appropriate constraints.
- CO4: Utilize surface modeling techniques for complex product designs.
- CO5: Generate detailed engineering drawings and annotations.
- CO6: Apply CATIA tools for basic simulations and real-world engineering projects.

Evaluation Process:

1. **Attendance:** A minimum of 75% attendance is mandatory.
2. **Qualifying Marks:** A minimum of 50% marks is required to pass the course.
3. **Certification:** Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods:**
    - **Assignments:** Regular exercises on 3D modeling and drafting.
    - **Project:** A final project demonstrating the student's ability to design a real-world engineering product.
    - **Exams:** A practical test at the end of the course to assess design proficiency.

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Bhubaneswar-751024

Learning Resources:

Suggested Books:

1. "CATIA V5-6R2018 Basics" by Tutorial Books
2. "CATIA V5 Workbook" by Richard Cozzens
3. "CATIA V5 Design Fundamentals" by W. Brian Rowe
4. "Engineering Design with CATIA V5" by Planchard & Planchard

Sambit Mohanty

(Course Instructor)

(HOD, Mech)

HOD
Mechanical Engineering

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering CATIA for Engineering Design

Sl No	Date	Time	Course Content
1	19/08/2019	3:00 PM - 6:00 PM	Overview of CATIA and its capabilities, user interface
2	20/08/2019	3:00 PM - 6:00 PM	Basic sketching tools, constraints, and dimensioning
3	21/08/2019	3:00 PM - 6:00 PM	Creating 3D models using extrusion and revolution
4	22/08/2019	3:00 PM - 6:00 PM	Boolean operations, fillets, chamfers, and patterns
5	23/08/2019	3:00 PM - 6:00 PM	Assembly design and constraints
6	24/08/2019	3:00 PM - 6:00 PM	Surface modelling techniques
7	26/08/2019	3:00 PM - 6:00 PM	Drafting and detailing in CATIA
8	27/08/2019	3:00 PM - 6:00 PM	Introduction to simulation and FEA
9	28/08/2019	3:00 PM - 6:00 PM	Project discussions
10	29/08/2019	3:00 PM - 6:00 PM	Assembly constraints
11	30/08/2019	3:00 PM - 6:00 PM	Introduction to FEA
12	31/08/2019	3:00 PM - 6:00 PM	3D models using extrusion and revolution
13	01/09/2019	3:00 PM - 6:00 PM	hands-on assignments
11	03/09/2019	5:00 PM - 6:00 PM	Assessment

Sambit Mohanty

(Course Instructor)

(HOD, Mech)

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HOD
Mechanical Engineering
Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-07/08/2019

This is to inform all the students of B.Tech that the department of Mechanical will start an add-on course on "Mastering CATIA for Engineering Design" starting from 19.08. 2019.All interested students are required to register on or before 14.08.2019.

Course Name: Mastering CATIA for Engineering Design
Instructor Name: Sambit Mohanty
Registration Contact: Sambit Mohanty

Principal 07/08/19

Principal
Trident Academy of Technology
Bhubaneswar-751024

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(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Boards

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 16.08.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Number of Students Enrolled for the Addon Course ""Mastering CATIA for Engineering Design".

Respected Sir,

We are going to start an add-on course on "Mastering CATIA for Engineering Design" from 19.08.2019 and a total of 24 Students have enrolled for this course. This is for your kind information

Sambit Mohanty

(Course Instructor)

(HOD, Meeh)

HOD
Mechanical Engineering

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:03.09.2019

10
10

CATIA
ASSESSMENT

Name Of the Student: Soumyaranjan Pradhan
Regd No: 1601289331

All Questions Compulsory

Q1: What is CATIA primarily used for?
A) Web development
B) 3D modeling and CAD design
C) Image editing
D) Video streaming

Q2: Which company developed CATIA?
A) Autodesk
B) Dassault Systèmes
C) Microsoft
D) Adobe

Q3: What is the primary file format used in CATIA?
A) .dwg
B) .catpart
C) .3ds
D) .obj

Q4: Which module in CATIA is used for part design?
A) Assembly Design
B) Sketcher
C) Part Design
D) Sheet Metal Design

Q5: In CATIA, what is the purpose of the Workbench?
A) A storage area for files
B) A workspace for specific tasks like designing, assembly, or simulation
C) A tool for creating 2D drawings only
D) A section for writing programming scripts

Q6: Which of the following is a type of constraint in CATIA?
A) Dimensional Constraint
B) Logical Constraint
C) Conditional Constraint
D) Iterative Constraint

Q7: What is the function of the Drafting Workbench in CATIA?
A) 3D solid modelling
B) Creating technical drawings from 3D models
C) Running animations
D) Performing Finite Element Analysis (FEA)

Q8: What type of software is CATIA classified as?
A) Office Suite
B) Database Management System
C) CAD/CAM/CAE Software
D) Image Processing Software

Q9: Which command is used to create a fillet in CATIA?
A) Chamfer
B) Trim
C) Round
D) Fillet

Q10: What is the Assembly Design Workbench used for?
A) Designing sheet metal parts
B) Assembling multiple parts into a product
C) Creating 2D sketches
D) Running simulations

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sambit Mohanty

Month/Year: Aug, 2019

Subject Code:

Branch:

Subject: Mastering CATIA For Engg Design

Sl. No	REGD NO	NAME	19/08	20/08	21/08	22/08	23/08	24/08	26/08	27/08	28/08	29/08
1	1601289001	AMIYA RANJAN SETHI	1	2	3	X	4	5	6	7	8	9
2	1601289002	CHANDAN KUMAR	1	2	X	3	4	5	6	7	8	9
3	1601289004	JANMEJAYA ROUT	1	2	3	4	5	X	6	7	8	9
4	1601289005	JAY PRAKASH	1	2	3	4	X	5	6	X	7	8
5	1601289006	JYOTI RANJAN SWAIN	1	2	3	4	5	6	X	7	8	9
6	1601289009	NIKHIL RAJ SHARMA	1	2	3	X	4	5	6	7	8	9
7	1601289010	OMKAR BAG	X	1	2	3	4	5	6	7	8	9
8	1601289011	PRAGNYA PRIYADARSHINI	1	2	3	4	5	6	X	7	8	9
9	1601289012	RUPESH PRUSTY	1	2	X	3	X	4	5	6	7	8
10	1601289016	SUBRAT KUMAR PRADHAN	1	2	3	4	5	X	6	7	8	9
11	1601289017	SWAYAMBHU PRASAD DEBATA	1	2	3	4	5	6	7	8	9	10
12	1601289018	TAPAN KUMAR BARIK	X	1	2	3	4	5	6	7	8	9
13	1601289020	ASHISH KUMAR SAHOO	1	2	3	4	5	6	7	8	9	X
14	1601289325	BRIJENDRA KUMAR	1	2	3	4	5	6	7	8	9	10
15	1601289326	GAURAV KUMAR	1	2	3	4	5	6	7	8	9	10
16	1601289327	MANESH YADAV	1	2	3	4	5	6	7	X	8	9
17	1601289328	RAHUL PATRA	X	1	2	3	4	5	6	7	8	9
18	1601289329	SIDHARTH JHANKAR	1	2	3	4	5	6	7	8	9	10
19	1601289330	SONALI MISHRA	1	2	3	4	5	6	7	8	9	X
20	1601289331	SOUMYA RANJAN PRADHAN	1	2	3	4	5	6	7	8	9	10
21	1601289332	SUSANTA KUMAR BARIK	1	2	3	4	5	6	7	8	X	9
22	1601289428	DEBAPRIYA PANIGRAHI	1	2	3	4	5	6	7	X	8	9
23	1601289429	P SANJEEB KUMAR SUBUDHI	1	2	3	4	5	6	7	8	9	10
24	1601289430	RAKESH RANJAN	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sambit Mohanty

Month/Year: Aug, 2019

Subject Code:

Branch:

Subject: Mastering CATIA For Engineering Design.

Sl. No	REGD NO	NAME	30/08	31/08	01/09	03/09						
1	1601289001	AMIYA RANJAN SETHI	10	11	12	13						
2	1601289002	CHANDAN KUMAR	10	11	12	13						
3	1601289004	JANMEJAYA ROUT	X	10	11	12						
4	1601289005	JAY PRAKASH	9	10	11	X						
5	1601289006	JYOTI RANJAN SWAIN	10	11	12	13						
6	1601289009	NIKHIL RAJ SHARMA	10	11	12	13						
7	1601289010	OMKAR BAG	10	X	11	12						
8	1601289011	PRAGNYA PRIYADARSHINI	10	11	12	13						
9	1601289012	RUPESH PRUSTY	9	10	11	X						
10	1601289016	SUBRAT KUMAR PRADHAN	10	11	X	12						
11	1601289017	SWAYAMBHU PRASAD DEBATA	X	11	12	13						
12	1601289018	TAPAN KUMAR BARIK	9	10	11	12						
13	1601289020	ASHISH KUMAR SAHOO	10	11	12	13						
14	1601289325	BRIJENDRA KUMAR	11	12	13	14						
15	1601289326	GAURAV KUMAR	11	X	12	13						
16	1601289327	MANESH YADAV	10	11	12	13						
17	1601289328	RAHUL PATRA	10	11	12	13						
18	1601289329	SIDHARTH JHANKAR	11	12	X	13						
19	1601289330	SONALI MISHRA	10	11	12	13						
20	1601289331	SOUMYA RANJAN PRADHAN	11	12	13	14						
21	1601289332	SUSANTA KUMAR BARIK	10	11	12	13						
22	1601289428	DEBAPRIYA PANIGRAHI	10	11	12	13						
23	1601289429	P SANJEEB KUMAR SUBUDHI	11	12	13	14						
24	1601289430	RAKESH RANJAN	11	12	13	X						

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:30.08.2019

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering MATLAB Programming through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 29.08.2019, we are planning to start a course "Mastering MATLAB Programming through Guided Problem Solving" from 07.09.2019. The objective of the course is to give fundamental knowledge of programming, numerical computing, and data visualization to our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering MATLAB Programming through Guided Problem Solving

Total Lecture Periods: 40hrs

Course Objectives:

This course aims to enhance students proficiency in MATLAB programming through guided problem-solving exercises. It provides the skills to perform numerical computations, data analysis, and graphical visualizations while solving real-world engineering and scientific problems.

MODULE-I: Introduction to MATLAB Programming [10 periods]

- **Topics:** Overview of MATLAB, environment setup, variables, data types, and basic operations.

MODULE-II: Data Analysis and Visualization [10 periods]

- **Topics:** Handling datasets, plotting 2D and 3D graphs, and using toolboxes for data processing.

MODULE-III: Numerical Computing [10 periods]

- **Topics:** Solving linear algebra problems, differential equations, optimization, and integration using MATLAB.

MODULE-IV: Applications and Case Studies [10 periods]

- **Topics:** Real-world applications of MATLAB in signal processing, control systems, and image processing.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand Matlab basics and apply them to problem-solving.
CO2: Perform data analysis and create effective visualizations.
CO3: Use Matlab to solve numerical problems in engineering and science.
CO4: Develop and debug Matlab scripts for complex computations.
CO5: Integrate Matlab applications with real-world scenarios.
CO6: Collaborate on group projects utilizing Matlab for simulations and analysis.

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Trident Academy of Technology
Bhubaneswar-751024

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. "MATLAB for Engineers" by Holly Moore
2. "MATLAB: A Practical Introduction to Programming and Problem Solving" by Stormy Attaway

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering MATLAB Programming through Guided Problem Solving

Sl No	Date	Time	Course Content
1	07.09.2019	3:00 PM-6:00 PM	Overview of Matlab and environment setup
2	09.09. 2019	3:00 PM-6:00 PM	Variables, data types, and basic operations
3	10.09. 2019	3:00 PM-6:00 PM	Handling datasets and data processing
4	11.09. 2019	3:00 PM-6:00 PM	Plotting 2D and 3D graphs in Matlab
5	12.09. 2019	3:00 PM-6:00 PM	Solving linear algebra problems and differential equations
6	13.09. 2019	3:00 PM-6:00 PM	Optimization using Matlab
7	14.09. 2019	3:00 PM-6:00 PM	Integration using Matlab
8	16.09. 2019	3:00 PM-6:00 PM	Real-world applications in Matlab
9	17.09. 2019	3:00 PM-6:00 PM	Matlab applications
10	18.09. 2019	3:00 PM-6:00 PM	Optimization and integration using Matlab
11	19.09. 2019	3:00 PM-6:00 PM	Applications of Matlab in signal processing
12	20.09. 2019	3:00 PM-6:00 PM	Real-world applications in control systems
13	21.09. 2019	3:00 PM-6:00 PM	Matlab applications in differential equations

ATTESTED

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Trident Academy of Technology
Bhubaneswar-751024

Sl No	Date	Time	Course Content
14	23.09. 2019	5:00 PM-6:00 PM	Assessment

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:04.09.2019

This is to inform all B. Tech students that the department of ETC will start an add-on course on " MATLAB Programming " starting from 07.09.2019. Interested students must register by 06.09.2019. The course details are as follows:

- Course name: Mastering MATLAB Programming through Guided Problem Solving
- Instructor name: Prasanta Mohanty
- Concerned person for Registration: Prasant Mohanty

Principal
04/09/19
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

ATTESTED
Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:06.09.2019

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering MATLAB Programming through Guided Problem Solving ".

Respected Sir,

We are going to start a course on " Mastering MATLAB Programming through Guided Problem Solving " from 07.09.2019 and a total of 25 Students have enrolled for this course. This is for your kind information.

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:23.09.2019

MATLAB PROGRAMMING
ASSESSMENT

09/10

Name Of the Student: Ashutosh Mishra
Regd No: 1601289356

All Questions Compulsory

Q1: What does MATLAB stand for?
A) Machine Language Table B) Matrix Laboratory
C) Math Library D) Modular Algorithm Tool

Q2: Which symbol is used for element-wise multiplication in MATLAB?
A) * B) .* C) & D) /

Q3: Which function is used to create a 3D plot in MATLAB?
A) plot3() B) surf() C) bar3() D) All of the above

Q4: In MATLAB, what does the command clc do?
A) Closes MATLAB B) Clears the command window
C) Clears all variables D) Creates a new script

Q5: How do you create a matrix of zeros in MATLAB?
A) zeros(m, n) B) zeros([m, n])
C) zero(m, n) D) clear(m, n)

Q6: What is the default data type for numerical values in MATLAB?
A) integer B) double C) float D) char

Q7: What function is used to find the size of a matrix in MATLAB?
A) size() B) length() C) dim() D) matrix_size()

Q8: How can you generate random numbers in MATLAB?
A) random() B) rand() C) randgen() D) randi()

Q9: What does the MATLAB command subplot(2,2,1) do?
A) Creates a 2x2 figure grid and selects the first plot
B) Creates a figure with two subplots
C) Splits the figure into two halves
D) Joins two subplots into one

Q10: How do you save a MATLAB workspace?
A) save work space.mat B) store workspace
C) keep workspace D) workspace save

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prasant ku. mohanty

Month/Year: Aug-2019

Subject Code:

Branch:

Subject: programming in matlab & mathematical problem solving

Sl. No	REGD NO	NAME	07/09	09/09	10/09	11/09	12/09	13/09	14/09	16/09	17/09	18/09
1	1601289155	ADYASHA PANDA	1	2	x	3	4	5	6	7	8	9
2	1601289156	ALOK RANJAN PRUSTY	1	x	2	3	4	5	6	7	8	9
3	1601289157	ANKEETA SINGH DEO	1	2	3	4	5	x	6	7	8	9
4	1601289158	ARIJIT KUMAR DHAL	1	2	3	4	5	6	x	1	8	9
5	1601289159	BISWAJEET SAMANTARAY	1	2	3	4	5	6	7	x	8	x
6	1601289160	BISWAJIT PUHAN	x	1	2	3	4	5	6	7	8	9
7	1601289162	DEBASHIS BARIK	1	2	3	4	x	5	6	7	8	9
8	1601289163	DEEPAK PRADHAN	1	2	3	x	4	5	6	7	x	8
9	1601289164	KUMAR ABHISHEK	1	x	2	3	4	5	6	7	8	9
10	1601289165	PRATEEK KUMAR PATEL	1	2	3	4	x	5	6	7	8	9
11	1601289166	PRITAM SAHU	1	2	x	3	4	5	6	7	8	x
12	1601289167	RAJASHREE MALLICK	x	1	2	3	4	5	6	x	7	8
13	1601289168	RAKHEE PATEL	1	2	3	4	5	x	6	7	x	8
14	1601289169	SAIKH SHABAZ ALI	1	2	3	x	4	5	6	7	8	9
15	1601289170	SANGAM BEHERA	1	2	3	4	5	x	6	7	8	9
16	1601289171	SHANKAR MOHAPATRA	1	x	2	3	4	5	x	6	7	8
17	1601289172	SIBASIS MAHAPATRA	1	2	3	4	5	6	7	x	8	9
18	1601289173	SOMANATH JENA	1	2	3	4	5	6	7	8	9	10
19	1601289176	TARUN CHANDRA MAHALIK	1	2	3	x	4	5	6	7	x	8
20	1601289354	ANANTABASUDEV PATRA	1	2	3	4	x	5	6	7	8	x
21	1601289355	ASHUTOSH KAR	1	2	3	4	5	6	x	7	8	9
22	1601289356	ASHUTOSH MISHRA	1	2	3	4	5	6	7	8	9	10
23	1601289357	CHHOTI KUMARI	1	2	3	4	5	6	7	8	9	10
24	1601289358	HARSH VARDHAN ARYA	1	2	3	4	5	6	7	8	9	10
25	1601289359	M DIVYA JYOTI	1	2	3	x	4	5	6	7	8	9

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prasant Ku. Mohanty **Month/Year:** Aug 2019

Subject Code: **Branch:**

Subject: Mastering MATLAB programming through Guided problem solving

Sl. No	REGD NO	NAME	19/09	20/09	21/09	23/09						
1	1601289155	ADYASHA PANDA	10	11	12	13						
2	1601289156	ALOK RANJAN PRUSTY	10	11	12	13						
3	1601289157	ANKEETA SINGH DEO	10	X	11	12						
4	1601289158	ARIJIT KUMAR DHAL	10	11	12	13						
5	1601289159	BISWAJEET SAMANTARAY	9	10	11	12						
6	1601289160	BISWAJIT PUHAN	X	10	11	12						
7	1601289162	DEBASHIS BARIK	10	11	12	X						
8	1601289163	DEEPAK PRADHAN	9	10	11	12						
9	1601289164	KUMAR ABHISHEK	10	11	12	13						
10	1601289165	PRATEEK KUMAR PATEL	10	X	11	12						
11	1601289166	PRITAM SAHU	9	10	11	X						
12	1601289167	RAJASHREE MALLICK	9	10	11	12						
13	1601289168	RAKHEE PATEL	9	10	11	12						
14	1601289169	SAIKH SHABAZ ALI	X	10	11	12						
15	1601289170	SANGAM BEHERA	10	11	X	12						
16	1601289171	SHANKAR MOHAPATRA	09	10	11	12						
17	1601289172	SIBASIS MAHAPATRA	10	X	11	12						
18	1601289173	SOMANATH JENA	11	12	X	13						
19	1601289176	TARUN CHANDRA MAHALIK	9	10	11	X						
20	1601289354	ANANTABASUDEV PATRA	9	10	11	12						
21	1601289355	ASHUTOSH KAR	10	11	12	13						
22	1601289356	ASHUTOSH MISHRA	11	12	X	13						
23	1601289357	CHHOTI KUMARI	11	12	13	14						
24	1601289358	HARSH VARDHAN ARYA	11	X	12	13						
25	1601289359	M DIVYA JYOTI	10	11	12	X						

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 17.09.2019

To,

The principal

Trident Academy of Technology, Bhubaneswar

Sub: Permission to start a certificate course in "Mastering Revit Architecture" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 16.09.2019, we are planning to start an add-on course on "Mastering Revit Architecture" from 27.09.2019 for our B. Tech students. The objective of this course is to provide a strong foundation in Revit Architecture for our students with the necessary skills to develop real-world architectural models. The course duration and schedule are attached for your approval.

Thanking You,

(HOD, Civil Engineering)

HOD
Civil Engineering

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Revit Architecture

Total Lecture Periods: 40 hrs

Course Objectives:

This course is designed to provide students with a comprehensive understanding of Revit Architecture, covering both basic and advanced concepts. Students will gain hands-on experience in architectural modeling, preparing them for industry-level design and planning tasks. The course will also prepare students for real-world projects, competitive exams, and architectural software proficiency.

MODULES

Module-I: Introduction to Revit Architecture [10 periods]

- Overview of Revit and its features
- Setting up the Revit environment
- Understanding the Revit interface
- Basic drawing and editing tools
- Levels and grids

Module-II: Architectural Modeling [10 periods]

- Creating walls, doors, and windows
- Working with floors, ceilings, and roofs
- Stairs, ramps, and railings
- Curtain walls and components

Module-III: Advanced Revit Concepts [10 periods]

- Families and components
- Annotations and detailing
- Schedules and legends
- Rendering and visualization

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Bhubaneswar-751024

Module-IV: Project Work and Collaboration [10 periods]

- Creating sheets and documentation
- Collaboration and work-sharing
- Importing and exporting files
- Final project: Designing a real-world architectural model

Course Outcomes

- CO1: Understand the core concepts of Revit Architecture.
- CO2: Create detailed architectural models using Revit.
- CO3: Utilize advanced Revit tools for efficient design and visualization.
- CO4: Work on architectural projects independently and in a team environment.
- CO5: Generate documentation and presentation sheets for architectural designs.

Evaluation Process

1. Attendance: Minimum 75% attendance is required for successful completion.
2. Qualifying Marks: Minimum 50% marks are required to pass the course.
3. Certification: Certificate will be awarded to students who successfully complete the course and assessment.

Suggested Learning Resources • Books:

1. "Mastering Autodesk Revit Architecture" by James Vandezande
2. "Revit Architecture No Experience Required" by Eric Wing

Biswajit Nayak

Biswajit Nayak

(Course Instructor)

(HOD, Civil Engineering)

HOD
Civil Engineering

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Revit Architecture

Sl No	Date	Time	Course Content
1	27.09.2019	3:00PM-6:00PM	Overview of Revit and its features; Setting up the Revit environment
2	28.09.2019	3:00PM-6:00PM	Understanding the Revit interface; Basic drawing and editing tools
3	30.09.2019	3:00PM-6:00PM	Levels and grids; Creating walls, doors, and windows
4	01.10.2019	3:00PM-6:00PM	Working with floors, ceilings, and roofs
5	04.10.2019	3:00PM-6:00PM	Stairs, ramps, and railings; Curtain walls and components
6	05.10.2019	3:00PM-6:00PM	Families and components; Annotations and detailing
7	07.10.2019	3:00PM-6:00PM	Schedules and legends;
8	08.10.2019	3:00PM-6:00PM	Creating sheets and documentation
9	09.10.2019	3:00PM-6:00PM	Collaboration and work-sharing;
10	10.10.2019	3:00PM-6:00PM	Designing a real-world architectural model
11	11.10.2019	3:00PM-6:00PM	Final project
12	12.10. 2019	3:00PM-6:00PM	Rendering and visualization
13	14.10. 2019	3:00PM-6:00PM	Importing and exporting files
14	15.10. 2019	5:00PM-6:00PM	Assessment

Biswajit Nayak

Biswajit Nayak

(Course Instructor)

(HOD, Civil Engineering)

HOD
Civil Engineering

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:20.09.2019

This is to inform all B. Tech students that the department of CIVIL will start an add-on course on " Mastering Revit Architecture " starting from 27.09.2019. Interested students must register by 25.09.2019. The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Biswajit Nayak
- Registration Contact:7787920623

Principal

20/9/2019

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 24.09.2019

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course " Mastering Revit Architecture ".

Respected Sir,

We are going to start a course on " Mastering Revit Architecture " from 27.09.2019 and a total of 35 Students have enrolled for this course. This is for your kind information.

Biswajit Nayak

Biswajit Nayak

(Course Instructor)

(HOD, Civil Engineering)

HOD
Civil Engineering

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:15.10.2019

REVIT ARCHITECTURE
ASSESSMENT

10/10

Name Of the Student: Monali DAS
Regd No: 1601289076

All Questions Compulsory

Q1: What is Revit used for?
A) Programming
B) Building Information Modeling (BIM)
C) Image editing
D) Video production

Q2: What is the file extension for a Revit project file?
A) .dwg B) .ryt C) .stl D) .obj

Q3: Which of the following is NOT a category in Revit?
A) Walls B) Doors C) Stairs D) Layers

Q4: What does BIM stand for?
A) Building Interior Management
B) Building Information Modeling
C) Basic Information Model
D) Building Infrastructure Maintenance

Q5: What is the purpose of the View Range setting in Revit?
A) To control how far the camera can zoom
B) To define the visible portion of a model in a plan view
C) To adjust rendering settings
D) To measure distances in a model

Q6: What is the Family Editor used for in Revit?
A) Creating custom building components
B) Editing an entire project layout
C) Designing electrical wiring
D) Setting up security settings

Q7: Which Revit tool is used to create a roof?
A) Floor B) Ceiling C) Roof by Footprin D) Roof by Lines

Q8: What feature allows multiple users to work on a Revit model at the same time?
A) Collaboration B) Worksets C) Groups D) Shared Families

Q9: What is the purpose of Phases in Revit?
A) To control project scheduling and construction sequencing
B) To create 3D models
C) To edit render quality
D) To adjust camera views

Q10: What does the Revit Massing tool help with?
A) Structural analysis
B) Conceptual building design
C) Electrical wiring
D) Plumbing layout

ATTESTED
Bijayini Nayak
Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Biswajit Nayak

Subject Code:

Month/Year: 09/2019

Branch:

Subject: Mastering Revit Architecture

Sl. No	REGD NO	NAME	27/09	28/09	30/09	01/10	04/10	05/10	07/10	08/10	09/10	10/10
1	1601289022	ABHISEK SARANGI	1	2	3	4	5	X	6	7	8	09
2	1601289023	ABHISHEK SWAIN	1	2	3	4	5	6	7	8	9	10
3	1601289024	ADITYA JENA	1	2	3	4	5	6	7	8	9	10
4	1601289025	ALISHA PRIYADARSHINI	1	2	3	4	5	6	7	8	9	10
5	1601289026	AMARESH NATH	1	2	3	4	5	6	X	7	8	X
6	1601289028	ANANDA BEHERA	1	2	3	4	5	X	6	7	8	9
7	1601289029	ANISH KUMAR SAHU	1	2	X	3	4	5	6	7	8	9
8	1601289030	ANISH KUMAR SAMAL	1	2	3	4	X	5	6	7	8	9
9	1601289031	ANKITA MAHARANA	X	1	2	3	4	5	6	7	X	8
10	1601289032	ANKITA MISHRA	1	2	3	X	4	5	6	7	8	9
11	1601289033	ANKITA PATTANAYAK	1	X	2	3	4	5	6	7	8	9
12	1601289034	ANUP KUMAR PRADHAN	1	2	3	4	5	X	6	7	8	X
13	1601289070	KRITY KUMARI	1	2	3	4	5	6	X	7	8	9
14	1601289071	LIPSARANI SAHOO	X	1	2	3	4	5	6	7	8	9
15	1601289072	MANAS SONA	1	2	3	4	5	6	7	X	8	9
16	1601289073	MD AHMED KHAN	1	2	X	3	4	5	6	7	8	9
17	1601289074	MITHLESH KUMAR	1	2	3	X	4	5	6	7	X	8
18	1601289075	MOHAMMAD NADEEM KHAN	1	2	3	4	5	6	7	X	8	9
19	1601289076	MONALI DAS	1	X	2	3	4	5	6	7	8	9
20	1601289077	MONALISA SAHOO	1	2	3	4	X	5	6	7	8	9
21	1601289078	MONALISA SAHOO	1	2	3	4	5	6	7	8	9	X
22	1601289079	NEETISH KUMAR GOUDA	1	2	3	4	5	6	7	8	X	9
23	1601289082	PAISHALI ACHARYA	1	X	2	3	4	5	6	7	8	9
24	1601289083	PANKAJ KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
25	1601289084	PAYAL MOHANTY	1	2	3	4	X	5	6	7	8	9
26	1601289085	PAYAL PANDA	1	2	3	X	4	5	6	7	8	9
27	1601289086	POOJARANI MAHANTA	1	2	X	3	4	5	6	7	8	9
28	1601289087	POONAM BEHERA	1	2	3	4	5	6	7	8	9	10
29	1601289089	PRATYUSH KUMAR MISHRA	1	2	3	4	5	6	7	8	9	10
30	1601289090	PRAVIN KUMAR	1	2	3	4	5	X	6	7	8	9
31	1601289092	PURUSOTTAM PANDA	1	2	3	4	5	6	7	8	9	10

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Principal
Trident Academy of Technology
Bhubaneswar-751024

32	1601289093	RAHUL BISWAL	1	2	3	4	5	6	7	8	9	X
33	1601289096	RAKESH KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
34	1601289097	RASHMI REKHA PANDA	X	1	2	3	4	5	6	X	7	8
35	1601289101	SAGAR KUMAR MISHRA	1	2	3	4	X	5	6	7	8	9

Biswajit Nayak

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Biswajit Nayak

Subject Code:

Month/Year: 10/2021

Branch:

Subject: Mastering Revit Architecture

Sl. No	REGD NO	NAME	11/10	12/10	14/10	15/10						
1	1601289022	ABHISEK SARANGI	10	11	x	12						
2	1601289023	ABHISHEK SWAIN	11	12	13	14						
3	1601289024	ADITYA JENA	11	12	13	x						
4	1601289025	ALISHA PRIYADARSHINI	x	11	12	13						
5	1601289026	AMARESH NATH	9	10	11	12						
6	1601289028	ANANDA BEHERA	10	11	12	13						
7	1601289029	ANISH KUMAR SAHU	10	x	11	12						
8	1601289030	ANISH KUMAR SAMAL	10	11	12	13						
9	1601289031	ANKITA MAHARANA	9	10	11	12						
10	1601289032	ANKITA MISHRA	10	11	x	12						
11	1601289033	ANKITA PATTANAYAK	10	11	12	13						
12	1601289034	ANUP KUMAR PRADHAN	9	10	11	12						
13	1601289070	KRITY KUMARI	x	10	11	12						
14	1601289071	LIPSARANI SAHOO	10	11	12	13						
15	1601289072	MANAS SONA	10	11	12	x						
16	1601289073	MD AHMED KHAN	10	11	12	13						
17	1601289074	MITHLESH KUMAR	9	10	11	12						
18	1601289075	MOHAMMAD NADEEM KHAN	10	x	11	12						
19	1601289076	MONALI DAS	10	11	12	13						
20	1601289077	MONALISA SAHOO	10	11	12	13						
21	1601289078	MONALISA SAHOO	10	11	x	12						
22	1601289079	NEETISH KUMAR GOUDA	10	11	12	13						
23	1601289082	PAISHALI ACHARYA	10	11	12	13						
24	1601289083	PANKAJ KUMAR BEHERA	11	12	13	14						
25	1601289084	PAYAL MOHANTY	10	11	12	13						
26	1601289085	PAYAL PANDA	10	11	12	13						
27	1601289086	POOJARANI MAHANTA	10	11	12	13						
28	1601289087	POONAM BEHERA	11	12	13	x						
29	1601289089	PRATYUSH KUMAR MISHRA	11	12	x	13						
30	1601289090	PRAVIN KUMAR	10	11	12	13						
31	1601289092	PURUSOTTAM PANDA	11	12	13	14						

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

32	1601289093	RAHUL BISWAL	10	11	12	13						
33	1601289096	RAKESH KUMAR SWAIN	11	12	13	X						
34	1601289097	RASHMI REKHA PANDA	09	10	11	12						
35	1601289101	SAGAR KUMAR MISHRA	10	X	11	12						

Basudeb Nayak

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:08.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start a certificate course in "Technical Problem Solving with Computational Tools" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 07.09.2020, we are planning to start an add-on course on "Technical Problem Solving with Computational Tools" for B. Tech students. The course aims to equip students with the knowledge and practical skills needed to apply computational tools to solve various technical and engineering problems. The course will cover multiple software tools such as MATLAB, Python, and simulation tools commonly used in industry.

We seek your kind permission to initiate this course from 14.09.2020.and we have attached the course details for your review and approval.

Thanking You,

(HOD CSE)

HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Technical Problem Solving with Computational Tools

Total Lecture Periods: 60 hrs.

Course Objectives:

This course aims to enhance students' technical problem-solving skills using various computational tools like MATLAB, Python, and simulation software. By the end of the course, students will be proficient in applying these tools for engineering analysis, simulations, and real-world problem solving.

MODULES

Module-I: Introduction to Computational Tools [15 periods]

- Overview of computational tools in engineering: MATLAB, Python, Simulink, and more
- Installation and setup of tools
- Basic programming concepts (variables, functions, loops, and conditionals)
- Introduction to MATLAB and Python syntax
- Problem-solving using simple scripts and functions

Module-II: Data Analysis and Visualization [15 periods]

- Working with datasets in MATLAB and Python
- Data preprocessing, cleaning, and transformation
- Visualization techniques: Plotting and customizing graphs (2D, 3D, interactive plots)
- Handling large datasets and performing statistical analysis
- Using libraries like Matplotlib, Pandas, and NumPy (in Python)

Module-III: Numerical Methods and Simulations [15 periods]

- Numerical integration and differentiation
- Solving linear and nonlinear equations using MATLAB and Python
- Monte Carlo simulations for probabilistic problem-solving
- Simulating physical systems and solving engineering problems
- Introduction to finite element analysis (FEA) and computational fluid dynamics (CFD) tools

Module-IV: Advanced Problem Solving and Simulations [15 periods]

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- Optimization techniques for engineering problems
- Signal and image processing using MATLAB
- Simulink for system modeling and simulation
- Advanced Python for engineering simulations (e.g., SciPy, SymPy)
- Case studies: Solving real-world engineering problems using computational tools
- Introduction to cloud-based simulations and big data analysis

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Use MATLAB, Python, and other computational tools for solving engineering problems.
- **CO2**: Analyze and visualize data effectively using appropriate tools and techniques.
- **CO3**: Apply numerical methods to solve engineering problems such as integration, differentiation, and optimization.
- **CO4**: Simulate physical systems using MATLAB, Simulink, and Python.
- **CO5**: Apply advanced computational techniques like machine learning and optimization to real-world problems.
- **CO6**: Work collaboratively on group projects and case studies using various computational tools.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and its assessments.

Suggested Learning Resources

- **Books**:
    1. "MATLAB for Engineers" by Holly Moore
    2. "Python for Engineers" by John V. Guttag
    3. "

S. B PARIDA

(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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SCHEDULE

Technical Problem Solving with Computational Tools

SL No	Date	Time	Course Content
1	14/09/2020	3:00PM-6:00PM	Overview of computational tools in engineering: MATLAB, Python, Simulink
2	15/09/2020	3:00PM-6:00PM	Installation and setup of tools, Basic programming concepts (variables, functions, loops, conditionals)
3	17/09/2020	3:00PM-6:00PM	MATLAB and Python syntax, Problem-solving using simple scripts and functions.
4	18/09/2020	3:00PM-6:00PM	Working with datasets in MATLAB and Python, Data preprocessing, cleaning, and transformation
5	19/09/2020	3:00PM-6:00PM	Plotting and customizing graphs (2D, 3D, interactive plots) using MATLAB and Python
6	21/09/2020	3:00PM-6:00PM	Handling large datasets, Statistical analysis using Matplotlib, Pandas, and NumPy
7	22/09/2020	3:00PM-6:00PM	Numerical integration and differentiation in MATLAB and Python
8	24/09/2020	3:00PM-6:00PM	Solving linear and nonlinear equations, Monte Carlo simulations.
9	25/09/2020	3:00PM-6:00PM	Simulating physical systems and solving engineering problems using computational tools
10	26/09/2020	3:00PM-6:00PM	Introduction to finite element analysis (FEA) and computational fluid dynamics (CFD) tools.
11	28/09/2020	3:00PM-6:00PM	Optimization methods for engineering problems using MATLAB and Python
12	29/09/2020	3:00PM-6:00PM	Signal processing techniques using MATLAB
13	01/10/2020	3:00PM-6:00PM	Image processing techniques using MATLAB
14	03/10/2020	3:00PM-6:00PM	System modeling with Simulink, SciPy for engineering simulations
15	05/10/2020	3:00PM-6:00PM	System modeling with Simulink SymPy for engineering simulations
16	06/10/2020	3:00PM-6:00PM	Solving real-world engineering problems using Simulink
17	07/10/2020	3:00PM-6:00PM	Solving real-world engineering problems using Python
18	08/09/2020	3:00PM-6:00PM	Solving real-world engineering problems using MATLAB

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19	09/10/2020	3:00PM-6:00PM	Introduction to cloud-based simulations
20	10/10/2020	4:00PM-6:00PM	Big data analysis, and group projects
21	12/10/2020	5:00PM-6:00PM	Assessment

S. B PARIDA

(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-09/09/2020

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on "Technical Problem Solving with Computational Tools" starting from 14/09/2020. Interested students must register on or before 11/09/2020. The course details are as follows:

- Course Name: Technical Problem Solving with Computational Tools
- Instructor Name: S B PARIDA
- Registration Contact: 7894996832

Principal

09/09/20

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Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Date: 13.09.2020

To,

The Principal

Trident Academy of Technology

Bhubaneswar

Subject: List of Students Enrolled for the Addon Course "Technical Problem Solving with Computational Tools".

Respected Sir,

A Total of 60 students from various departments have enrolled for the value-added course on "Technical Problem Solving with Computational Tools" starting from 14/09/2020.

This is for your kind information.

S. B PARIDA

(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:12.10.2020

TECHNICAL

ASSESSMENT

Name Of the Student: Jyotiranjan Swain
Regd No: 1701289017

9/10

All Questions Compulsory

Q1: Which of the following is NOT a computational tool used in engineering?
A) MATLAB B) Simulink C) Photoshop D) Python

Q2: What is the primary purpose of Simulink?
A) Image editing B) System modeling and simulation
C) Web development D) Database management

Q3: Which Python library is commonly used for data visualization?
A) NumPy B) Matplotlib C) TensorFlow D) Pandas

Q4: What type of loop is used to iterate over a sequence in Python?
A) for loop B) switch loop
C) while-else loop D) do-while loop

Q5: Which function in MATLAB is used to solve linear equations?
A) solve() B) linspace()
C) linsolve() D) polyfit()

Q6: What is Monte Carlo simulation primarily used for?
A) Image processing B) Solving deterministic equations
C) Probabilistic problem-solving D) Creating databases

Q7: Which numerical method is used for solving nonlinear equations?
A) Newton-Raphson method B) Euler's method
C) Finite difference method D) Runge-Kutta method

Q8: Which MATLAB tool is used for processing signals and images?
A) Simulink B) Signal Processing Toolbox
C) Data Preprocessing Toolbox D) PyTorch

Q9: What is the main advantage of cloud-based simulations?
A) Reduced computational cost B) Limited scalability
C) Increased hardware dependency D) Slower processing speeds

Q10: Which library in Python is used for symbolic mathematics and algebra?
A) SciPy B) SymPy C) OpenCV D) PyTorch

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Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 9/20

Subject Code: **Branch:**

Subject: Technical Problem

Sl. No	REGD NO	NAME	14/09	15/09	17/09	18/09	19/09	21/09	22/09	24/09	25/09	28/09
1	1701289001	HIMADRI TANAYA PANI	1	2	3	4	X	5	X	6	7	8
2	1701289002	MADHABANANDA GHADAI	1	X	2	3	4	5	6	7	8	9
3	1701289003	ABINASH BISWAL	1	2	3	4	X	5	6	7	8	9
4	1701289004	SUBRAT RANJAN DASH	1	2	3	4	5	6	7	8	X	9
5	1701289005	SASWAT PATRA	1	2	3	4	5	X	6	7	8	9
6	1701289007	DIBYANSHI PANDA	1	X	2	3	4	5	6	7	8	9
7	1701289009	DEVLAL LOHAR	1	2	3	4	5	6	7	X	8	9
8	1701289014	AMBIKESH SARANGI	1	2	3	4	5	6	7	8	9	10
9	1701289017	JYOTI RANJAN SWAIN	1	2	3	4	5	6	7	8	9	10
10	1701289018	MOHIT KUMAR MAHANTA	1	2	3	4	5	6	7	8	9	10
11	1701289023	ANANYA PATTNAIK	1	X	2	3	4	5	X	6	7	8
12	1701289024	KRANTIBIR PRATAP RAI	1	2	3	4	5	6	X	7	8	9
13	1701289025	SNEHASHREE DASH	1	2	3	4	5	6	7	8	X	9
14	1701289026	SHANTANU KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
15	1701289028	JNANABHUSANA BEHERA	X	1	2	3	4	5	6	7	8	9
16	1701289029	HRUSHIKES MOHANTA	X	1	2	3	4	5	X	6	7	8
17	1701289031	AFAQUE ANWAR AZAD	1	2	3	4	5	6	7	8	9	10
18	1701289032	SHALINI	1	2	3	4	5	6	7	8	9	10
19	1701289033	SAHIL MAHAPATRA	1	2	3	4	5	6	7	8	9	10
20	1701289034	DEBASHISH PANDA	1	2	3	4	5	6	7	8	9	10
21	1701289037	PRIYABRATA DAS	1	2	3	4	5	6	X	7	8	9
22	1701289041	DEEPSHIKHA SAHOO	1	2	3	4	5	6	7	8	X	9
23	1701289044	PRANAYA KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
24	1701289046	POOJA MOHARANA	1	2	3	4	5	6	7	8	X	9
25	1701289056	SAURABH SUBUDHIRAY	1	2	3	4	5	6	7	X	8	9
26	1701289057	SWASTIK DEBAPRIYA ROUT	1	2	3	4	5	6	7	8	9	10
27	1701289060	GUPTA PRASAD SABAT	1	2	3	4	5	6	7	8	X	9
28	1701289062	BIJAYANANDA LENKA	1	2	3	4	5	6	7	8	9	10
29	1701289063	KUMAR GAURAV	1	2	3	4	5	6	X	7	8	9
30	1701289064	ANKUR BASUMALLICK	1	2	3	4	5	6	7	8	9	10
31	1701289069	DEBASISH PANDA	1	2	3	4	5	6	7	8	9	10
32	1701289073	SAMHITA SWAYAMSIDDHA SAHOO	1	2	3	4	5	6	7	8	X	9
33	1701289074	ABHILASH CHAMPATIRAY	1	2	3	4	X	5	6	7	8	9
34	1701289077	PREETAM KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10

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35	1701289078	SILPI RAM	1	2	3	4	5	6	7	8	X	9	
36	1701289081	BISWAJEET NAYAK	1	2	3	4	5	6	7	8	9	10	
37	1701289083	ALAKA SAHU	1	2	3	4	5	6	7	8	9	10	
38	1701289088	PRACHI PRACHURYA ROUT	1	2	3	4	5	X	6	7	8	9	
39	1701289089	ROHIT KUMAR JENA	1	2	3	4	X	6	6	7	8	9	
40	1701289090	NATASHA MOHAPATRA	1	2	3	X	4	6	6	7	8	9	
41	1701289091	SAI HARSSIT	X	1	2	3	4	5	6	7	8	9	
42	1701289093	MANISHA DAS	1	2	3	4	5	6	7	8	9	10	
43	1701289097	SRITAM NAYAK	1	2	3	4	5	6	7	8	9	10	
44	1701289098	ASIM ARBIND SAMAL	1	2	3	4	5	6	7	8	9	10	
45	1701289099	SUMAN MOHANTY	1	2	3	X	4	5	6	7	8	9	
46	1701289100	SHWETA	1	2	3	4	5	6	7	8	9	10	
47	1701289101	SHIVAM SRI	1	2	3	4	5	6	7	8	9	10	
48	1701289102	SUBHAM KUMAR PADHIHARY	X	1	2	3	4	X	5	6	7	8	
49	1701289103	RASMIRANJAN SWAIN	1	2	3	4	5	6	7	8	9	10	
50	1701289104	PRALAY RANJAN SAHOO	1	2	3	4	5	6	7	8	9	10	
51	1701289107	SWASTIK SRICHANDAN SAHOO	1	2	3	4	5	X	6	7	8	9	
52	1701289110	SURYAKANTA KABI	1	2	3	4	5	6	7	8	9	10	
53	1701289111	PRISITA PATEL	1	2	3	X	4	5	6	7	8	9	10
54	1701289112	HIMANSHU BHUSAN SAHOO	X	1	2	3	4	5	6	7	8	9	
55	1701289114	LIPSA LUSINA PRIYADARSHINI	1	2	3	4	5	6	7	X	8	9	
56	1701289117	PRIYANKA PRIYADARSINEE	1	2	3	4	5	6	X	7	8	9	
57	1701289118	SIBANI MOHANTY	1	2	3	4	5	6	7	8	9	10	
58	1701289119	SUBHASHREE SUCHISMITA DAS	1	X	2	3	4	5	6	7	8	9	
59	1701289122	CHINMAYA PATRA	1	2	3	4	5	6	7	8	9	10	
60	1701289124	PARESH KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10	

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 09/20

Subject Code: **Branch:**

Subject: Technical Problems

Sl. No	REGD NO	NAME	28/09	29/09	01/10	03/10	05/10	06/10	07/10	08/10	09/10	10/10
1	1701289001	HIMADRI TANAYA PANI	9	10	11	12	13	X	14	15	X	16
2	1701289002	MADHABANANDA GHADAI	10	X	11	12	13	14	15	16	17	18
3	1701289003	ABINASH BISWAL	10	11	11	12	13	X	14	15	16	17
4	1701289004	SUBRAT RANJAN DASH	10	11	12	13	14	15	16	17	18	19
5	1701289005	SASWAT PATRA	10	11	12	13	14	15	X	16	17	18
6	1701289007	DIBYANSHI PANDA	10	11	12	13	X	14	15	16	17	18
7	1701289009	DEVLAL LOHAR	10	11	12	13	14	15	16	17	X	18
8	1701289014	AMBIKESH SARANGI	11	12	13	14	15	16	17	18	19	20
9	1701289017	JYOTI RANJAN SWAIN	11	X	12	13	14	15	16	17	X	18
10	1701289018	MOHIT KUMAR MAHANTA	11	12	13	14	15	16	17	18	19	X
11	1701289023	ANANYA PATTNAIK	9	10	11	12	13	14	15	16	17	18
12	1701289024	KRANTIBIR PRATAP RAI	10	11	12	13	14	15	X	16	17	18
13	1701289025	SNEHASHREE DASH	10	11	12	13	14	15	16	17	18	19
14	1701289026	SHANTANU KUMAR NAYAK	11	12	13	14	15	16	17	18	19	20
15	1701289028	JNANABHUSANA BEHERA	10	11	12	13	14	15	16	17	18	19
16	1701289029	HRUSHIKES MOHANTA	9	10	11	12	13	14	15	16	17	X
17	1701289031	AFAQUE ANWAR AZAD	11	12	13	14	15	16	17	18	X	19
18	1701289032	SHALINI	11	12	13	14	15	16	17	18	19	20
19	1701289033	SAHIL MAHAPATRA	11	X	12	13	14	15	16	17	18	19
20	1701289034	DEBASHISH PANDA	11	12	13	14	15	16	17	18	19	20
21	1701289037	PRIYABRATA DAS	10	11	12	13	14	15	16	17	18	19
22	1701289041	DEEPSHIKHA SAHOO	10	11	12	13	14	15	16	17	18	X
23	1701289044	PRANAYA KUMAR SINGH	11	12	13	14	15	16	17	18	19	20
24	1701289046	POOJA MOHARANA	10	11	12	13	14	15	16	17	18	19
25	1701289056	SAURABH SUBUDHIRAY	10	11	12	13	14	15	16	17	18	X
26	1701289057	SWASTIK DEBAPRIYA ROUT	11	12	13	14	15	16	17	18	19	20
27	1701289060	GUPTA PRASAD SABAT	10	11	12	13	14	15	16	17	18	19
28	1701289062	BIJAYANANDA LENKA	11	12	13	14	15	16	X	17	18	X
29	1701289063	KUMAR GAURAV	10	11	12	13	14	15	16	17	X	18
30	1701289064	ANKUR BASUMALLICK	11	X	12	13	14	X	15	16	17	18
31	1701289069	DEBASISH PANDA	11	X	12	13	14	15	16	17	18	19
32	1701289073	SAMHITA SWAYAMSIDDHA SAHOO	10	11	12	13	14	15	16	17	X	18
33	1701289074	ABHILASH CHAMPATIRAY	10	11	12	13	14	15	16	X	17	18
34	1701289077	PREETAM KUMAR BEHERA	11	12	13	14	15	16	17	18	19	20

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35	1701289078	SILPI RAM	10	X	11	12	13	14	15	X	16	17
36	1701289081	BISWAJEET NAYAK	11	12	13	14	15	16	17	18	19	20
37	1701289083	ALAKA SAHU	11	12	13	14	15	16	17	18	X	19
38	1701289088	PRACHI PRACHURYA ROUT	10	11	12	13	14	15	16	17	18	19
39	1701289089	ROHIT KUMAR JENA	10	11	12	13	14	15	16	X	17	18
40	1701289090	NATASHA MOHAPATRA	10	11	12	13	14	15	16	17	18	19
41	1701289091	SAI HARSSIT	10	11	12	13	14	15	16	17	18	19
42	1701289093	MANISHA DAS	11	12	13	14	15	16	17	18	19	X
43	1701289097	SRITAM NAYAK	11	12	13	14	15	16	17	18	19	20
44	1701289098	ASIM ARBIND SAMAL	11	12	X	13	14	15	16	17	18	19
45	1701289099	SUMAN MOHANTY	10	11	12	13	14	15	16	17	18	X
46	1701289100	SHWETA	11	12	13	14	15	16	17	18	19	20
47	1701289101	SHIVAM SRI	11	12	X	13	14	15	16	17	18	X
48	1701289102	SUBHAM KUMAR PADHIHARY	9	10	11	12	13	14	15	16	17	18
49	1701289103	RASMIRANJAN SWAIN	11	12	13	14	15	16	17	18	19	20
50	1701289104	PRALAY RANJAN SAHOO	11	12	13	14	15	16	17	18	19	20
51	1701289107	SWASTIK SRICHANDAN SAHOO	10	11	12	13	14	15	16	17	78	19
52	1701289110	SURYAKANTA KABI	10	11	12	13	14	15	16	17	18	19
53	1701289111	PRISITA PATEL	10	11	12	13	14	15	16	17	X	18
54	1701289112	HIMANSHU BHUSAN SAHOO	10	11	12	13	14	15	16	17	18	X
55	1701289114	LIPSA LUSINA PRIYADARSHINI	10	11	12	13	14	15	16	17	18	19
56	1701289117	PRIYANKA PRIYADARSINEE	10	x	11	X	12	13	14	15	16	17
57	1701289118	SIBANI MOHANTY	10	12	13	14	15	16	17	18	19	20
58	1701289119	SUBHASHREE SUCHISMITA DAS	10	11	12	13	14	15	16	17	18	19
59	1701289122	CHINMAYA PATRA	11	12	13	14	15	16	17	18	19	20
60	1701289124	PARESH KUMAR SAHOO	11	12	13	14	15	16	17	18	19	20

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 9/20

Subject Code: **Branch:**

Subject: Technical Problems

Sl. No	REGD NO	NAME	12/10									
1	1701289001	HIMADRI TANAYA PANI	17									
2	1701289002	MADHABANANDA GHADAI	19									
3	1701289003	ABINASH BISWAL	18									
4	1701289004	SUBRAT RANJAN DASH	20									
5	1701289005	SASWAT PATRA	19									
6	1701289007	DIBYANSHI PANDA	19									
7	1701289009	DEVLAL LOHAR	19									
8	1701289014	AMBIKESH SARANGI	21									
9	1701289017	JYOTI RANJAN SWAIN	19									
10	1701289018	MOHIT KUMAR MAHANTA	20									
11	1701289023	ANANYA PATTNAIK	19									
12	1701289024	KRANTIBIR PRATAP RAI	19									
13	1701289025	SNEHASHREE DASH	20									
14	1701289026	SHANTANU KUMAR NAYAK	21									
15	1701289028	JNANABHUSANA BEHERA	20									
16	1701289029	HRUSHIKES MOHANTA	18									
17	1701289031	AFAQUE ANWAR AZAD	20									
18	1701289032	SHALINI	21									
19	1701289033	SAHIL MAHAPATRA	20									
20	1701289034	DEBASHISH PANDA	21									
21	1701289037	PRIYABRATA DAS	20									
22	1701289041	DEEPSHIKHA SAHOO	19									
23	1701289044	PRANAYA KUMAR SINGH	21									
24	1701289046	POOJA MOHARANA	20									
25	1701289056	SAURABH SUBUDHIRAY	19									
26	1701289057	SWASTIK DEBAPRIYA ROUT	21									
27	1701289060	GUPTA PRASAD SABAT	20									
28	1701289062	BIJAYANANDA LENKA	19									
29	1701289063	KUMAR GAURAV	19									
30	1701289064	ANKUR BASUMALLICK	19									
31	1701289069	DEBASISH PANDA	20									
32	1701289073	SAMHITA SWAYAMSIDDHA SAHOO	19									
33	1701289074	ABHILASH CHAMPATIRAY	19									
34	1701289077	PREETAM KUMAR BEHERA	21									

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35	1701289078	SILPI RAM	18									
36	1701289081	BISWAJEET NAYAK	21									
37	1701289083	ALAKA SAHU	20									
38	1701289088	PRACHI PRACHURYA ROUT	20									
39	1701289089	ROHIT KUMAR JENA	19									
40	1701289090	NATASHA MOHAPATRA	20									
41	1701289091	SAI HARSSIT	20									
42	1701289093	MANISHA DAS	20									
43	1701289097	SRITAM NAYAK	21									
44	1701289098	ASIM ARBIND SAMAL	20									
45	1701289099	SUMAN MOHANTY	19									
46	1701289100	SHWETA	21									
47	1701289101	SHIVAM SRI	19									
48	1701289102	SUBHAM KUMAR PADHIHARY	19									
49	1701289103	RASMIRANJAN SWAIN	21									
50	1701289104	PRALAY RANJAN SAHOO	21									
51	1701289107	SWASTIK SRICHANDAN SAHOO	20									
52	1701289110	SURYAKANTA KABI	20									
53	1701289111	PRISITA PATEL	19									
54	1701289112	HIMANSHU BHUSAN SAHOO	19									
55	1701289114	LIPSA LUSINA PRIYADARSHINI	20									
56	1701289117	PRIYANKA PRIYADARSINEE	18									
57	1701289118	SIBANI MOHANTY	21									
58	1701289119	SUBHASHREE SUCHISMITA DAS	20									
59	1701289122	CHINMAYA PATRA	21									
60	1701289124	PARESH KUMAR SAHOO	21									

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 23.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Power System Transients (PST) through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 22.09.2020, we are planning to start a certificate course on "Mastering Power System Transients (PST) through Guided Problem Solving" from 30.09.2020. The primary objective of this course is to equip our year students with essential knowledge of power system transients, fault analysis, and their practical applications.

The course duration and schedule are attached for your perusal.

Thanking You,

(HOD EEE)

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SYLLABUS

Mastering Power System Transients (PST)

Course Duration: 48 hrs

Course Objectives:

The goal of this course is to provide students with a comprehensive understanding of power system transients, including fault conditions, transient analysis, and their effects on power systems. The course will emphasize practical, hands-on problem-solving using real-world scenarios and modern computational tools.

Course Content:

MODULE-I: Introduction to Power System Transients [12 periods]

- Overview of Power System Transients
- Causes and Effects of Transients in Power Systems
- Basic Concepts: Faults, Short-circuits, and Protection Schemes
- Transient Models for Power Systems

MODULE-II: Fault Analysis and Transient Studies [12 periods]

- Fault Types and Classification (Symmetrical and Unsymmetrical)
- Fault Analysis Techniques
- Short-Circuit Calculations and Protection Coordination
- Power System Stability During Fault Conditions

MODULE-III: Numerical Methods for Transient Analysis [12 periods]

- Transient Simulation Methods
- Time Domain and Frequency Domain Analysis
- Solving Linear and Nonlinear Transient Equations
- MATLAB/Simulink for Transient Studies

MODULE-IV: Advanced Topics in Power System Transients [12 periods]

- Surge and Wave Propagation in Power Systems
- Lightning and Switching Surges
- Impact of Faults on System Equipment and Protection
- Case Studies and Application of Power System Transient Analysis

Course Outcomes:

Upon successful completion of the course, students will be able to:

- **CO1:** Understand the fundamentals of power system transients and their causes.
- **CO2:** Perform fault analysis and transient simulations using industry-standard tools.

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- **CO3:** Apply MATLAB/Simulink for solving real-world power system transient problems.
- **CO4:** Analyze the impact of transients on system stability and equipment.
- **CO5:** Develop strategies for mitigating the effects of transients in power systems.
- **CO6:** Work collaboratively on projects involving fault analysis and transient studies.

Evaluation Process:

1. **Attendance:** Minimum 75% attendance is mandatory.
2. **Assessment:** A combination of assignments, quizzes, practical tests, and a final exam.
3. **Certification:** Students will receive a certificate upon successful completion and assessment of the course.

Suggested Books & Learning Resources:

1. **"Power System Transients: Theory and Applications" by A. R. Bergen and Vijay Vittal**
2. **"Power System Analysis" by John J. Grainger and William D. Stevenson**

Nadeem Iqbal

(Course Instructor)

(HOD,EEE)

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SCHEDULE

Mastering Power System Transients (PST)

SL No	Date	Time	Course Content
1	30.09.2020	3:00 PM - 6:00 PM	Overview of Power System Transients and their Causes
2	01.10.2020	3:00 PM - 6:00 PM	Effects of Transients on Power Systems and Basic Concepts: Faults, Short-Circuits, Protection Schemes
3	03.10.2020	3:00 PM - 6:00 PM	Fault Types and Classification (Symmetrical and Unsymmetrical)
4	04.10.2020	3:00 PM - 6:00 PM	Fault Analysis Techniques and Short-Circuit Calculations
5	05.10.2020	3:00 PM - 6:00 PM	Protection Coordination and Power System Stability During Faults
6	06.10.2020	3:00 PM - 6:00 PM	Transient Simulation Methods
7	07.10.2020	3:00 PM - 6:00 PM	Time and Frequency Domain Analysis
8	08.10.2020	3:00 PM - 6:00 PM	Solving Linear and Nonlinear Transient Equations
9	09.10.2020	3:00 PM - 6:00 PM	MATLAB Applications in Transient Studies
10	10.10.2020	3:00 PM - 6:00 PM	Surge and Wave Propagation,
11	12.10.2020	3:00 PM - 6:00 PM	Impact of Faults on System Equipment and Protection
12	13.10.2020	3:00 PM - 6:00 PM	Lightning, and Switching Surges
13	14.10.2020	3:00 PM - 6:00 PM	Simulink Applications in Transient Studies
14	15.10.2020	3:00 PM - 6:00 PM	Surge and Wave Propagation, Lightning, and Switching Surges
15	16.10.2020	3:00 PM - 6:00 PM	Impact of Faults on System Equipment and Protection
16	17.10.2020	4:00 PM - 6:00 PM	Case Studies and Practical Applications of Power System Transient Analysis
17	19.10.2020	5:00 PM - 6:00 PM	Assessment

Nadeem Iqbal

(Course Instructor)

(HOD, EEE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-24.09.2020

This is to inform all the students of B.Tech that the department will initiate a course on "Mastering Power System Transients (PST) through Guided Problem Solving" from 30.09.2020. All interested students are instructed to register by 29.09.2020.

Course Name: Mastering Power System Transients through Guided Problem Solving

Instructor Name: Nadeem Iqbal

Registration Contact: 9861236522

Principal

24/09/20

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 29.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Power System Transients through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Power System Transients through Guided Problem Solving " from 30.09.2020 and a total of 57 Students have enrolled for this course. This is for your kind information.

Nadeem Iqbal

(Course Instructor)

(HOD, EEE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:19.10.2020

POWER SYSTEM TRANSIENTS (PST)

ASSESSMENT

Name Of the Student: Ankit Mohapatra
Regd No: 1701289227

10/10

All Questions Compulsory

Q1: What is a power system transient?
A) A steady-state phenomenon
B) A temporary disturbance in the system
C) A permanent fault in the system
D) A voltage regulation process

Q2: Which of the following is a major cause of transients in power systems?
A) Continuous power supply
B) Lightning strikes
C) Load balancing
D) Normal switching operations

Q3: What type of fault occurs when all three phases are short-circuited together?
A) Line-to-line fault
B) Single line-to-ground fault
C) Symmetrical fault
D) Unsymmetrical fault

Q4: Which of the following is used for transient analysis in power systems?
A) Load flow study
B) Short-circuit calculation
C) MATLAB/Simulink
D) Power factor correction

Q5: Why is transient stability important in power systems?
A) It ensures long-term voltage regulation
B) It prevents excessive power loss
C) It maintains system operation after disturbances
D) It eliminates all types of faults

Q6: What is the primary reason for fault analysis in power systems?
A) To increase voltage levels
B) To ensure proper protection coordination
C) To design electrical circuits
D) To improve the efficiency of generators

Q7: Which method is commonly used for time-domain transient analysis?
A) Fourier Transform
B) Laplace Transform
C) Finite Difference Method
D) Power Factor Correction

Q8: What is the main impact of lightning surges on power systems?
A) Steady power supply
B) Insulation failure
C) Voltage regulation
D) Frequency stabilization

Q9: What is a key method for mitigating switching surges?
A) Increasing the resistance in transmission lines
B) Installing surge arresters
C) Reducing power factor
D) Increasing system frequency

Q10: Which of the following is a major factor in wave propagation in power systems?
A) Air pressure
B) Line inductance and capacitance
C) Transformer tap settings
D) Power factor correction

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Attendance Sheet

Name of the Teacher: Mohammed Nadeem Iqbal **Month/Year:** Sept. 2020

Subject Code: **Branch:**

Subject: Mastering Power System

Sl. No	REGD NO	NAME	30/09	01/10	03/10	04/10	05/10	06/10	07/10	08/10	09/10	10/10
1	1701289127	SWETALEENA BASA	1	2	3	4	5	6	7	8	9	10
2	1701289135	ANKITA PRIYADARSHINI SWAIN	1	2	3	4	A	5	6	7	8	9
3	1701289137	PREETILISA RAY	1	A	2	3	4	5	6	7	8	9
4	1701289138	ASHUTOSH PADHI	1	2	A	3	4	A	5	6	7	8
5	1701289148	DINESH SAHOO	1	2	3	4	5	6	7	8	9	10
6	1701289149	SUSHREE MOHANTY	1	2	3	4	5	6	7	8	A	9
7	1701289157	DIBYASHREE MOHANTY	1	2	3	4	5	6	7	8	9	10
8	1701289161	SIPRA JENA	1	A	2	3	4	5	6	7	8	9
9	1701289184	PRATIKSHA BARIK	1	2	3	4	5	6	7	8	9	10
10	1701289191	MRINMOY KUMAR	1	2	3	4	5	6	7	8	9	10
11	1701289203	GAYATRY PANDA	1	2	3	4	5	A	6	7	8	9
12	1701289209	ABHIJEET MAHARANA	1	2	3	4	5	6	7	8	9	10
13	1701289210	KUMAR SURJYAM	1	A	A	2	3	4	5	6	7	8
14	1701289217	GAYATREE PATNAIK	A	1	2	3	4	5	6	7	8	9
15	1701289220	OMM PRASAD SAHOO	1	2	3	4	5	6	7	A	8	9
16	1701289221	TULIKA KUMARI	1	2	3	4	5	6	7	8	9	10
17	1701289223	RITESH KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
18	1701289226	BISWAJIT BEHERA	1	2	3	4	5	6	7	8	9	10
19	1701289227	ANKIT MOHAPATRA	1	2	3	4	5	6	7	8	9	10
20	1701289231	PUNYA SANGEET DHAL	1	A	2	3	4	5	6	7	8	9
21	1701289232	SASMITA SAHOO	1	2	3	4	5	6	7	A	8	9
22	1701289234	JANNAT KUMAR PRADHAN	1	2	3	4	5	6	7	8	9	10
23	1701289235	RADHAGOBINDA MEHER	1	2	3	4	5	6	7	8	9	10
24	1701289237	HAREKRUSHNA LENKA	1	2	3	4	A	5	6	7	8	9
25	1701289238	RAMA CHANDRA PANDA	1	2	3	4	5	6	7	8	9	10
26	1701289246	NITYANANDA BISWAL	A	1	2	3	4	5	6	7	8	9
27	1701289250	NADIP KUMAR JENA	1	2	3	4	5	6	7	A	8	9
28	1701289252	YASISH GAUCHAN	1	2	3	4	5	6	7	A	A	8
29	1701289261	SHAILJA SINHA	1	2	3	A	4	5	6	7	8	9
30	1701289265	S BIGHNESH KUMAR	1	2	3	4	5	6	7	8	9	10
31	1701289270	SATYABRATA JENA	1	2	3	4	5	6	7	8	9	10
32	1701289274	SUBHASHREE MALLA	1	2	3	4	5	6	7	8	9	10
33	1701289277	ANANYA ANINDITA	1	A	2	3	4	5	6	7	8	9
34	1701289281	PRIYA PRIYADARSINI SWAIN	1	2	3	4	5	6	7	8	9	10

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35	1701289282	CHINMAYEE DASH	1	2	A	3	4	5	6	7	8	9	
36	1701289283	ARPITA SWAIN	1	2	3	4	5	A	6	7	8	9	
37	1701289285	DILAN NAYAK	1	2	3	4	A	5	6	7	8	9	
38	1701289286	HRUDANANDA PRADHAN	1	A	2	3	4	5	6	7	8	9	
39	1701289287	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10	
40	1701289290	SUBHRA BISWAL	1	2	3	4	5	6	7	8	9	10	
41	1701289293	ABHILIPSA SAMAL	1	2	3	4	5	6	7	8	9	10	
42	1701289297	ABHIJEET KUMAR NAYAK	1	2	3	4	5	6	7	A	8	9	
43	1701289298	ABHISHEK BEHERA	1	2	3	4	5	A	6	7	8	9	
44	1701289299	ABHISHEK MISHRA	1	2	3	4	A	5	6	7	8	9	
45	1701289300	ADITYA BHUSAN BISWAL	1	A	2	3	4	5	6	7	8	9	
46	1701289341	AKASH MOHAPATRA	1	2	3	4	5	A	6	A	7	8	
47	1701289342	AMIT SINGH	A	1	2	3	4	5	6	7	8	9	
48	1701289343	AMULYA KUMAR SATPATHY	1	2	3	4	5	6	7	A	7	8	
49	1701289344	ARABINDA NAYAK	1	2	3	4	5	6	7	8	9	10	
50	1701289345	ARNABA ROUT	1	2	3	4	5	6	7	8	9	10	
51	1701289346	ARSHLAAN NOOR	1	2	3	4	5	6	7	8	9	10	
52	1701289347	ASHUTOSH NAYAK	1	2	3	4	5	6	7	A	8	9	
53	1701289348	AVASMINI DAS	1	2	3	4	A	5	6	7	8	9	
54	1701289349	BAIKUNTHA PRASANA MOHANTY	1	A	2	3	4	5	6	7	8	9	
55	1701289350	BIJAYA LAXMI SAHANI	1	2	3	4	5	6	7	A	8	9	
56	1701289351	BISWARANJAN PANDA	1	2	3	4	5	6	7	8	9	10	
57	1701289352	CHANDAN KUMAR RAI	1	2	3	4	5	6	7	8	9	10	

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Mohammad Nadeem Iqbal **Month/Year:** Sept - 2020

Subject Code: **Branch:**

Subject: Mastering Power Syste.

Sl. No	REGD NO	NAME	12 / 10	13 / 10	14 / 10	15 / 10	16 / 10	17 / 10	18 / 10			
1	1701289127	SWETALEENA BASA	11	12	A	13	A	14	15			
2	1701289135	ANKITA PRIYADARSHINI SWAIN	10	11	12	13	14	15	16			
3	1701289137	PREETILISA RAY	10	11	12	13	14	15	16			
4	1701289138	ASHUTOSH PADHI	9	10	11	12	13	14	15			
5	1701289148	DINESH SAHOO	11	A	12	13	A	14	15			
6	1701289149	SUSHREE MOHANTY	10	11	12	13	14	15	16			
7	1701289157	DIBYASHREE MOHANTY	11	12	13	14	15	16	17			
8	1701289161	SIPRA JENA	10	11	12	13	14	15	16			
9	1701289184	PRATIKSHA BARIK	11	12	13	14	15	16	17			
10	1701289191	MRINMOY KUMAR	11	A	12	13	14	15	16			
11	1701289203	GAYATRY PANDA	10	11	A	12	13	A	14			
12	1701289209	ABHIJEET MAHARANA	10	11	12	13	14	15	16			
13	1701289210	KUMAR SURJYAM	11	12	13	14	15	16	17			
14	1701289217	GAYATREE PATNAIK	9	10	A	11	12	13	14			
15	1701289220	OMM PRASAD SAHOO	10	11	12	13	14	15	16			
16	1701289221	TULIKA KUMARI	10	11	A	12	13	14	15			
17	1701289223	RITESH KUMAR PANDA	11	12	13	14	15	16	17			
18	1701289226	BISWAJIT BEHERA	11	A	12	13	14	15	16			
19	1701289227	ANKIT MOHAPATRA	11	12	13	14	15	A	16			
20	1701289231	PUNYA SANGEET DHAL	A	10	11	12	A	13	14			
21	1701289232	SASMITA SAHOO	10	11	A	12	13	14	15			
22	1701289234	JANNAT KUMAR PRADHAN	A	11	12	13	14	15	16			
23	1701289235	RADHAGOBINDA MEHER	11	12	A	13	14	15	16			
24	1701289237	HAREKRUSHNA LENKA	11	12	13	14	15	16	17			
25	1701289238	RAMA CHANDRA PANDA	10	11	12	13	14	15	16			
26	1701289246	NITYANANDA BISWAL	11	12	13	14	15	16	17			
27	1701289250	NADIP KUMAR JENA	10	11	12	13	14	15	16			
28	1701289252	YASISH GAUCHAN	9	10	11	12	A	13	14			
29	1701289261	SHAILJA SINHA	10	11	12	13	14	15	16			
30	1701289265	S BIGHNESH KUMAR	11	12	A	13	14	A	15			
31	1701289270	SATYABRATA JENA	11	12	13	14	15	16	17			
32	1701289274	SUBHASHREE MALLA	11	12	13	14	15	16	17			
33	1701289277	ANANYA ANINDITA	A	10	11	12	13	14	15			
34	1701289281	PRIYA PRIYADARSINI SWAIN	11	12	13	14	15	16	17			

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35	1701289282	CHINMAYEE DASH	10	11	A	12	13	14	15				
36	1701289283	ARPITA SWAIN	10	A	11	A	12	13	14				
37	1701289285	DILAN NAYAK	10	11	12	13	14	A	15				
38	1701289286	HRUDANANDA PRADHAN	10	11	12	13	14	15	16				
39	1701289287	BISWAJIT SAHOO	11	12	13	14	15	16	17				
40	1701289290	SUBHRA BISWAL	A	11	12	13	14	15	16				
41	1701289293	ABHILIPSA SAMAL	11	12	13	14	15	16	17				
42	1701289297	ABHIJEET KUMAR NAYAK	10	11	12	13	14	15	16				
43	1701289298	ABHISHEK BEHERA	10	11	12	13	14	15	16				
44	1701289299	ABHISHEK MISHRA	10	A	11	12	13	A	14				
45	1701289300	ADITYA BHUSAN BISWAL	10	A	11	12	13	14	15				
46	1701289341	AKASH MOHAPATRA	9	10	11	12	13	14	15				
47	1701289342	AMIT SINGH	10	11	12	13	14	A	15				
48	1701289343	AMULYA KUMAR SATPATHY	9	10	11	12	13	14	15				
49	1701289344	ARABINDA NAYAK	11	12	13	A	14	15	16				
50	1701289345	ARNABA ROUT	11	12	13	13	15	A	16				
51	1701289346	ARSHLAAN NOOR	11	12	13	14	15	A	16				
52	1701289347	ASHUTOSH NAYAK	10	11	12	13	14	15	16				
53	1701289348	AVASMINI DAS	10	11	12	13	14	15	16				
54	1701289349	BAIKUNTHA PRASANA MOHANTY	10	11	12	13	14	A	15				
55	1701289350	BIJAYA LAXMI SAHANI	10	11	12	13	A	14	15				
56	1701289351	BISWARANJAN PANDA	11	12	13	A	14	15	16				
57	1701289352	CHANDAN KUMAR RAI	11	A	12	13	14	15	16				

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 15.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Power Plant Technology (PPT) through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 14.09.2020, we are planning to start an add-on course on "Mastering Power Plant Technology (PPT) through Guided Problem Solving" from 21.09.2020. The primary objective of this course is to provide our final-year students with practical knowledge of power plant operations, thermal cycles, and plant optimization techniques.

The course duration and schedule are attached for your kind approval.

Thanking You,

(HOD,EEE)

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SYLLABUS

Mastering Power Plant Technology (PPT) through Guided Problem Solving

Course Duration: 36hrs

Course Objectives:

The goal of this course is to enhance students' understanding of power plant operations and technology, focusing on thermal power generation, plant efficiency, and optimization. It will also involve real-world problem-solving scenarios, using simulation tools to analyze power plant systems and improve their performance.

Course Content:

MODULE-I: Introduction to Power Plant Technology [9 periods]

- Overview of Power Plant Operations
- Types of Power Plants: Thermal, Hydro, Nuclear
- Working Principles of Thermal Power Plants
- Basic Components: Boilers, Turbines, Generators, and Cooling Systems

MODULE-II: Power Generation Cycles and Efficiency [9 periods]

- Rankine Cycle and Ideal Power Plant Efficiency
- Superheating and Regeneration Techniques
- Heat Rate and Plant Efficiency Analysis
- Understanding Steam Flow and Heat Recovery Systems

MODULE-III: Power Plant Control and Automation [8 periods]

- Control Systems in Power Plants
- Instrumentation and Monitoring Techniques
- Load Dispatching and Grid Integration
- Automation of Boiler and Turbine Operations

MODULE-IV: Advanced Topics and Plant Optimization [10 periods]

- Thermal Power Plant Efficiency Improvement Techniques
- Renewable Energy Integration in Power Plants
- Plant Operation and Maintenance: Challenges and Solutions
- Case Studies: Optimization and Fault Analysis in Real-world Plants

Course Outcomes:

Upon successful completion of the course, students will be able to:

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- **CO1:** Understand the operational aspects and components of thermal power plants.
- **CO2:** Analyze and optimize thermal cycles for improved efficiency.
- **CO3:** Work with power plant control systems and monitoring tools.
- **CO4:** Apply advanced techniques to optimize plant operations and maintenance.
- **CO5:** Address real-world challenges in power plant management.
- **CO6:** Collaborate on group projects and solve plant optimization problems.

Evaluation Process:

1. **Attendance:** Minimum 75% attendance is mandatory.
2. **Assessment:** Combination of assignments, quizzes, practical evaluations, and a final exam.
3. **Certification:** Certificate awarded after successful completion of course and assessment.

Suggested Books & Learning Resources:

1. **"Power Plant Engineering" by P.K. Nag**
2. **"Introduction to Power Plant Technology" by L.V. Wakil**

Lohit Kumar Sahoo

(Course Instructor)

(HOD,EEE)

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SCHEDULE

Mastering Power Plant Technology (PPT)

SL.No	Date	Time	Course Content
1	21.09.2020	3:00 PM - 6:00 PM	Introduction to Power Plant Technology
2	22.09.2020	3:00 PM - 6:00 PM	Types of Power Plants: Thermal, Hydro, Nuclear Working Principles of Thermal Power Plants
3	23.09.2020	3:00 PM - 6:00 PM	Basic Components: Boilers, Turbines, Generators, and Cooling Systems
4	25.09.2020	3:00 PM - 6:00 PM	Rankine Cycle and Ideal Power Plant Efficiency
5	26.09.2020	3:00 PM - 6:00 PM	Superheating and Regeneration Techniques,Heat Rate and Plant Efficiency Analysis
6	28.09.2020	3:00 PM - 6:00 PM	Understanding Steam Flow and Heat Recovery Systems
7	29.09.2020	3:00 PM - 6:00 PM	Control Systems in Power Plants, Instrumentation and Monitoring Techniques
8	30.09.2020	3:00 PM - 6:00 PM	Load Dispatching and Grid Integration, Automation of Boiler and Turbine Operations
9	01.10.2020	3:00 PM - 6:00 PM	Thermal Power Plant Efficiency Improvement Techniques
10	03.10.2020	3:00 PM - 6:00 PM	Renewable Energy Integration in Power Plants
11	05.10.2020	3:00 PM - 6:00 PM	Plant Operation and Maintenance: Challenges and Solutions
12	06.10.2020	4:00 PM - 6:00 PM	Renewable Energy Integration in Power Plants
13	08.10.2020	3:00 PM - 6:00 PM	Assessment

Lohit Kumar Sahoo

(Course Instructor)

(HOD,EEE)

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Electrical & Electronics Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-17.09.2020

This is to inform all the students of B.Tech that the department will initiate a course on "Mastering Power Plant Technology (PPT) through Guided Problem Solving" starting from 21.09. 2020.All interested students are required to register on or before 20.09.2020.

Course Name: Mastering Power Plant Technology through Guided Problem Solving
Instructor Name: Lohit Kumar Sahoo
Registration Contact:9938793380

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Trident Academy of Technology
Bhubaneswar-751024

Date: 20.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Power Plant Technology (PPT) through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Power Plant Technology (PPT) through Guided Problem Solving " from 21.09.2020 and a total of 33 Students have enrolled for this course. This is for your kind information.

Lohit Kumar Sahoo

(Course Instructor)

(HOD,EEE)

HOD
Electrical & Electronics Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:08.10.2020

POWER PLANT TECHNOLOGY (PPT)
ASSESSMENT

Name Of the Student: Amit Singh.
Regd No: 1701289941

9/10

All Questions Compulsory

Q1: Which of the following is NOT a type of power plant?

A) Thermal Power Plant B) Hydro Power Plant
C) Solar Power Plant D) Chemical Power Plant

Q2: What is the primary function of a boiler in a thermal power plant?

A) Convert mechanical energy into electrical energy B) Store excess power
C) Generate steam for driving turbines D) Control the voltage levels

Q3: The Rankine cycle is commonly used in which type of power plant?

A) Nuclear Power Plant B) Thermal Power Plant
C) Hydro Power Plant D) Wind Power Plant

Q4: What is the purpose of superheating in a Rankine cycle?

A) Reduce the fuel consumption B) Increase the efficiency of the cycle
C) Improve the quality of coal D) Lower the temperature of the steam

Q5: What does a Load Dispatch Center (LDC) do in a power plant?

A) Generates electricity from renewable sources
B) Monitors and controls the power distribution
C) Increases fuel efficiency
D) Improves steam flow

Q6: Which of the following is an important parameter for monitoring power plant performance?

A) Heat rate B) Air pressure C) Water salinity D) Humidity level

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Bhubaneswar-751024

Q7: What is the main purpose of automation in power plants?

A) Reduce human errors and improve efficiency

B) Increase manual intervention in operations

C) Lower the fuel cost of power generation

D) Increase power losses in the system

Q8: What is one of the major challenges in thermal power plant maintenance?

A) Controlling the steam temperature

B) Managing fuel storage

C) Handling waste disposal and emissions

D) Increasing grid voltage

Q9: How can thermal power plant efficiency be improved?

A) By using low-grade coal

B) By increasing cooling tower size

C) By implementing waste heat recovery systems

D) By reducing boiler pressure

Q10: What is the major advantage of integrating renewable energy sources in power plants?

A) Decreases grid stability

B) Reduces dependency on fossil fuels

C) Increases carbon emissions

D) Reduces power generation capacity

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: [illegible]

Month/Year: 09/2020

Subject Code: PPT

Branch:

Subject: PPT

Sl. No	REGD NO	NAME	21/09	22/09	23/09	25/09	28/09	29/09	30/09	01/10	03/10	05/10
1	1701289290	SUBHRA BISWAL	1	2	3	4	5	6	7	A	8	9
2	1701289293	ABHILIPSA SAMAL	1	A	2	3	4	5	6	7	8	9
3	1701289297	ABHIJEET KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
4	1701289298	ABHISHEK BEHERA	1	2	3	A	4	5	6	7	8	9
5	1701289299	ABHISHEK MISHRA	1	2	3	4	5	6	7	8	9	10
6	1701289300	ADITYA BHUSAN BISWAL	1	2	3	A	4	5	6	7	8	9
7	1701289341	AKASH MOHAPATRA	1	2	3	4	5	6	7	8	9	10
8	1701289342	AMIT SINGH	1	2	3	4	5	6	7	8	9	10
9	1701289343	AMULYA KUMAR SATPATHY	1	2	3	A	4	5	6	7	8	9
10	1701289344	ARABINDA NAYAK	1	2	3	4	5	6	7	8	9	10
11	1701289345	ARNABA ROUT	1	2	3	4	5	6	7	8	9	10
12	1701289346	ARSHLAAN NOOR	1	A	2	3	4	5	6	7	8	9
13	1701289347	ASHUTOSH NAYAK	1	2	A	3	4	5	6	7	8	9
14	1701289348	AVASMINI DAS	1	2	A	3	4	5	6	7	8	9
15	1701289349	BAIKUNTHA PRASANA MOHANTY	1	2	3	A	4	5	6	7	8	9
16	1701289350	BIJAYA LAXMI SAHANI	1	2	3	A	4	5	6	7	8	9
17	1701289351	BISWARANJAN PANDA	1	2	3	4	5	6	7	8	9	10
18	1701289352	CHANDAN KUMAR RAI	1	2	3	4	5	6	7	8	9	10
19	1701289353	DEBADATTA SWAIN	1	A	2	3	4	5	6	7	8	9
20	1701289354	DEBOSHREE CHOWDHURY	1	2	3	A	4	5	6	7	8	9
21	1701289355	DEVNANDAN RAJ SHARMA	A	1	2	3	4	A	5	6	7	8
22	1701289356	GAURAV KUMAR	1	2	3	4	5	6	7	8	9	10
23	1701289357	GULNAAZ PARWEEN	1	2	3	4	5	6	7	8	9	10
24	1701289358	HIMANSU SEKHAR GOUDA	1	2	3	4	5	6	7	8	9	10
25	1701289359	JOGAMAYA OTTA	1	A	2	3	4	5	6	7	8	9
26	1701289360	JYOTI PRAKASH NAYAK	1	2	3	4	5	6	7	8	9	10
27	1701289361	LEENA PARIDA	1	2	3	4	5	6	7	8	9	10
28	1701289362	LOPITA LAGNACHITA MISHRA	1	A	2	3	4	5	6	7	8	9
29	1701289363	MAHAPRASAD NAYAK	1	2	3	4	5	A	6	7	8	9

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30	1701289364	MANORAMA MOHANTY	1	2	3	4	5	6	7	8	9	10
31	1701289365	NAVAJAT TRIPATHY	1	2	3	4	5	6	7	8	9	10
32	1701289366	NAVEEN KUMAR	1	A	2	3	4	6	7	8	9	10
33	1701289368	NIRAKAR SAHOO	1	2	3	4	5	6	7	A	8	9

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: [illegible]

Month/Year: 09/2019

Subject Code:

Branch:

Subject: PPT

Sl. No	REGD NO	NAME	06/10	08/10								
1	1701289290	SUBHRA BISWAL	10	11								
2	1701289293	ABHILIPSA SAMAL	10	11								
3	1701289297	ABHIJEET KUMAR NAYAK	11	12								
4	1701289298	ABHISHEK BEHERA	10	11								
5	1701289299	ABHISHEK MISHRA	11	12								
6	1701289300	ADITYA BHUSAN BISWAL	10	11								
7	1701289341	AKASH MOHAPATRA	11	12								
8	1701289342	AMIT SINGH	11	12								
9	1701289343	AMULYA KUMAR SATPATHY	10	11								
10	1701289344	ARABINDA NAYAK	11	12								
11	1701289345	ARNABA ROUT	11	12								
12	1701289346	ARSHLAAN NOOR	10	11								
13	1701289347	ASHUTOSH NAYAK	10	11								
14	1701289348	AVASMINI DAS	10	11								
15	1701289349	BAIKUNTHA PRASANA MOHANTY	10	11								
16	1701289350	BIJAYA LAXMI SAHANI	10	11								
17	1701289351	BISWARANJAN PANDA	11	12								
18	1701289352	CHANDAN KUMAR RAI	11	12								
19	1701289353	DEBADATTA SWAIN	10	11								
20	1701289354	DEBOSHREE CHOWDHURY	10	11								
21	1701289355	DEVNANDAN RAJ SHARMA	9	10								
22	1701289356	GAURAV KUMAR	11	12								
23	1701289357	GULNAAZ PARWEEN	11	12								
24	1701289358	HIMANSU SEKHAR GOUDA	11	12								
25	1701289359	JOGAMAYA OTTA	10	11								
26	1701289360	JYOTI PRAKASH NAYAK	11	12								
27	1701289361	LEENA PARIDA	11	12								
28	1701289362	LOPITA LAGNACHITA MISHRA	10	11								
29	1701289363	MAHAPRASAD NAYAK	10	11								

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30	1701289364	MANORAMA MOHANTY	11	12								
31	1701289365	NAVAJAT TRIPATHY	11	12								
32	1701289366	NAVEEN KUMAR	11	12								
33	1701289368	NIRAKAR SAHOO	10	11								

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:03.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Artificial Intelligence and Machine Learning for Signal Processing" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 02.09.2020, we propose to start a course titled "Artificial Intelligence and Machine Learning for Signal Processing" for B.Tech students from 09.09.2020. The objective of the course is to provide students with foundational knowledge in artificial intelligence (AI) and machine learning (ML) techniques and their applications in signal processing. The course schedule and duration are attached for your kind approval.

Thanking You,

(HOD,ETC)

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Electronics & Telecommunication Engg.

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SYLLABUS

Artificial Intelligence and Machine Learning for Signal Processing

Total Lecture Periods: 36 hrs
Course Objectives:

This course aims to introduce students to the use of AI and ML techniques in signal processing. It covers the basics of machine learning algorithms, neural networks, and their applications to time-series analysis, filtering, denoising, speech recognition, image processing, and other signal processing tasks.

MODULES:

MODULE-I: Introduction to Signal Processing and AI/ML Concepts [9 periods]

- Overview of Signal Processing: Digital Signal Processing (DSP) and its Applications
- Basics of Artificial Intelligence (AI) and Machine Learning (ML)
- Supervised vs. Unsupervised Learning in Signal Processing
- Introduction to Neural Networks and Deep Learning
- Overview of Signal Processing Techniques: Fourier Transform, Filtering, Sampling

MODULE-II: Machine Learning Algorithms for Signal Processing [9 periods]

- Linear Regression and Classification for Signal Analysis
- K-Nearest Neighbors (KNN) and Support Vector Machines (SVM) in Signal Classification
- Feature Extraction and Dimensionality Reduction
- Clustering Techniques for Signal Grouping (K-means, DBSCAN)
- Supervised and Unsupervised Learning for Signal Enhancement

MODULE-III: Time-Series Analysis and Forecasting with AI/ML [9 periods]

- Time-Series Signal Processing Overview: AR, MA, ARMA Models
- Machine Learning for Time-Series Forecasting
- Recurrent Neural Networks (RNN) and Long Short-Term Memory (LSTM) for Sequential Data
- Applications: Forecasting in Electrical Signals, Stock Market, Environmental Monitoring

MODULE-IV: Advanced Topics and Applications in Signal Processing [9 periods]

- Deep Learning Architectures for Signal Processing: Convolutional Neural Networks (CNN) for Audio/Image Data
- Speech and Audio Signal Processing using AI/ML
- Image and Video Signal Processing using Machine Learning
- AI and ML for Noise Reduction, Filtering, and Compression

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- Case Studies and Applications: Biomedical Signal Processing, Wireless Communication, Speech Recognition

Course Outcomes:

Upon successful completion of the course, students will be able to:

- **CO1:** Understand the foundational concepts of signal processing, AI, and ML techniques.
- **CO2:** Apply machine learning algorithms for solving signal processing problems such as classification, forecasting, and denoising.
- **CO3:** Develop AI/ML-based solutions for time-series analysis and signal enhancement tasks.
- **CO4:** Implement neural networks (including CNN, RNN, and LSTM) for signal processing applications.
- **CO5:** Use machine learning tools to process and analyze audio, image, and speech signals.
- **CO6:** Work on real-world projects integrating AI and ML techniques for signal processing applications.

Evaluation Process:

1. **Attendance:** 75% attendance is mandatory.
2. **Minimum Qualifying Marks:** 50%
3. **Assessment:** Continuous assessment through assignments, quizzes, and project work.
4. **Certification:** Certificate will be issued upon successful completion of the course and assessments.

Suggested Books & Learning Resources:

1. **"Pattern Recognition and Machine Learning" by Christopher Bishop**
2. **"Deep Learning" by Ian Goodfellow, Yoshua Bengio, Aaron Courville**
3. **"Machine Learning for Signal Processing" by Max A. Little**
4. **"Introduction to Signal Processing" by Sophocles J. Orfanidis**

Satyanarayan Rath.

Satya Narayan Rath

(Course Instructor)

(HOD,ETC)

HOD
Electronics & Telecommunication Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Artificial Intelligence and Machine Learning for Signal Processing

SL No.	Date	Time	Course Content
1	09.09.2020	3:00 PM - 6:00 PM	Introduction to Signal Processing and Basics of AI/ML
2	10.09.2020	3:00 PM - 6:00 PM	Machine Learning Algorithms: Linear Regression and Classification
3	11.09.2020	3:00 PM - 6:00 PM	K-Nearest Neighbours (KNN), SVM in Signal Classification
4	13.09.2020	3:00 PM - 6:00 PM	Feature Extraction, Dimensionality Reduction, and Clustering
5	14.09.2020	3:00 PM - 6:00 PM	Time-Series Signal Processing with Machine Learning
6	15.09.2020	3:00 PM - 6:00 PM	Recurrent Neural Networks (RNN), LSTM for Sequential Data
7	16.09.2020	3:00 PM - 6:00 PM	Deep Learning for Signal Processing: CNN for Audio and Image
8	17.09.2020	3:00 PM - 6:00 PM	Speech and Audio with AI/ML
9	18.9.2020	3:00 PM - 6:00 PM	Image Processing and Video Signal Processing with Machine Learning, Case Studies:
10	19.09.2020	3:00 PM - 6:00 PM	for Sequential Data
11	20.09.2020	3:00 PM - 6:00 PM	CNN for Audio and Image
12	21.09.2020	4:00 PM - 6:00 PM	Signal Processing with AI/ML

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SL No.	Date	Time	Course Content
13	22.9.2020	5:00 PM - 6:00 PM	AI/ML in Biomedical Signal Processing and Communication

Satyanarayan Rath

Satya Narayan Rath

(Course Instructor)

(HOD,ETC)

HOD
Electronics & Telecommunication Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date -04.09.2020

This is to inform all students of B. Tech and MCA that the department of ETC will start the add-on course on "Artificial Intelligence and Machine Learning for Signal Processing" from 09.09.2020. All interested students must register by 08.09.2020.

Course Name: Artificial Intelligence and Machine Learning for Signal Processing

Instructor Name: Satya Narayan Rath

Registration Contact: 8847889734

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Copy to:

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(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:08.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Respected Sir,

A Total of 25 of students from various departments have enrolled for the value-added course on " Artificial Intelligence and Machine Learning for Signal Processing" from 09.09.2020. This is for your kind information.

Satyanarayan Rath

Satya Narayan Rath

(Course Instructor)

(HOD,ETC)
HOD
Electronics & Telecommunication Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:22.09.2020

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FOR SIGNAL PROCESSING

ASSESSMENT

Name of the Student: Abhijeet Mohanty

Regd No: 1701287412

10/10

Satyanarayan Rath

All Questions Compulsory

Q1: What is the primary purpose of Digital Signal Processing (DSP)?

A) To store digital data

B) To analyze and manipulate signals

C) To compress files

D) To perform arithmetic calculations

Q2: Which of the following best defines supervised learning in signal processing?

A) Learning from labeled data

B) Learning without human intervention

C) Learning by reinforcement

D) Learning through genetic algorithms

Q3: What is the main function of the Fourier Transform in signal processing?

A) Convert a signal from the time domain to the frequency domain

B) Reduce noise in signals

C) Increase signal bandwidth

D) Improve image quality

Q4: Which machine learning algorithm is commonly used for signal classification?

A) K-Nearest Neighbors (KNN)

B) Decision Trees

C) Genetic Algorithms

D) Naïve Bayes

Q5: What is the purpose of feature extraction in signal processing?

A) To remove unwanted signals

B) To reduce dimensionality and extract important characteristics

C) To enhance noise in a signal

D) To convert analog signals to digital signals

Q6: Which neural network model is commonly used for time-series forecasting?

A) Convolutional Neural Network (CNN)

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B) Recurrent Neural Network (RNN)
C) Support Vector Machine (SVM)
D) K-Means Clustering

Q7: What is the primary advantage of using Long Short-Term Memory (LSTM) networks in signal processing?

A) Ability to process and remember long-term dependencies
B) Faster computation speed compared to traditional algorithms
C) Less data storage requirement
D) Works only with image processing

Q8: Which deep learning architecture is most suitable for audio and image data processing?

A) Convolutional Neural Networks (CNN)
B) Random Forest
C) K-Means Clustering
D) Decision Trees

Q9: What is the primary goal of noise reduction techniques in signal processing?

A) To enhance signal quality and remove unwanted distortions
B) To increase computational complexity
C) To add artificial noise to the signal
D) To improve data storage capacity

Q10: Which of the following is an application of AI/ML in biomedical signal processing?

A) Enhancing contrast in medical images
B) Predicting heart rate abnormalities using ECG signals
C) Reducing bandwidth of wireless signals
D) Encoding video signals for transmission

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Satyanarayan Rath **Month/Year:** September/2020

Subject Code: **Branch:**

Subject: AIML for Signal processing

Sl. No	REGD NO	NAME	09/09	10/09	11/09	13/09	14/09	15/09	16/09	17/09	18/09	19/09
1	1701289016	DEEPAK SAHOO	1	2	3	4	5	6	7	8	9	10
2	1701289084	ROSHAN BISWAL	1	A	2	3	4	5	6	7	8	9
3	1701289131	SARFRAZ HUSSAIN	1	2	3	4	A	5	6	7	8	9
4	1701289169	DEVIDUTTA PANIGRAHI	1	2	3	4	5	6	7	A	8	9
5	1701289190	ASHISH KUMAR PARIJA	1	2	3	4	5	6	7	8	9	10
6	1701289195	PRINCE PATRA	1	2	3	4	5	6	7	8	9	10
7	1701289215	ABINASH SWAIN	A	1	2	3	4	5	6	7	8	9
8	1701289233	ANISH KUMAR BARIK	1	2	3	4	5	6	7	8	9	10
9	1701289241	DEBABRATA TARAI	1	A	2	3	A	A	4	5	6	7
10	1701289258	SHUVA SAMBIT SAHU	1	2	A	3	A	4	5	6	7	8
11	1701289269	SUBHAM DHALSAMANTA	1	2	3	4	5	6	7	8	9	10
12	1701289411	ABHAYA KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
13	1701289412	ABHIJEET MOHANTY	1	2	3	4	5	6	7	8	9	10
14	1701289413	AKASH MANDAL	1	2	3	4	5	6	7	8	9	10
15	1701289414	ASHUTOSH MISHRA	1	2	3	4	A	5	6	7	8	9
16	1701289415	ASTARAGA MAHALA	1	2	A	3	4	5	6	7	8	9
17	1701289416	BINAY RAJ KUMAR SAMAL	1	2	3	4	5	6	7	8	9	10
18	1701289417	DEEPAK RAJ MAJHI	1	2	3	4	5	6	7	A	8	9
19	1701289418	GYANENDRA SAHU	1	2	3	4	5	6	7	8	9	10
20	1701289419	LAXMI HEMBROM	1	2	3	4	5	6	7	8	9	10
21	1701289420	MOHAMMED INZAMAM UL HAQUE	1	2	3	4	A	5	6	7	8	9
22	1701289421	PRIYAMJIT MOHAPATRA	1	2	3	4	5	6	7	8	9	10
23	1701289422	SATYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
24	1701289423	SOUMYA RANJAN ACHARYA	1	A	2	3	4	5	6	7	8	9
25	1701289424	SWATI SRIKSHETRI PARIDA	1	2	3	4	5	6	7	8	9	10

Satyanarayan Rath

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Satyanarayan Rath

Month/Year: September/2020

Subject Code:

Branch:

Subject: AIML for signal processing

Sl. No	REGD NO	NAME	20/09	21/09	22/09							
1	1701289016	DEEPAK SAHOO	11	12	13							
2	1701289084	ROSHAN BISWAL	10	11	12							
3	1701289131	SARFRAZ HUSSAIN	10	A	11							
4	1701289169	DEVIDUTTA PANIGRAHI	10	11	12							
5	1701289190	ASHISH KUMAR PARIJA	11	12	13							
6	1701289195	PRINCE PATRA	11	12	13							
7	1701289215	ABINASH SWAIN	10	11	12							
8	1701289233	ANISH KUMAR BARIK	11	12	13							
9	1701289241	DEBABRATA TARAI	8	9	10							
10	1701289258	SHUVA SAMBIT SAHU	9	10	11							
11	1701289269	SUBHAM DHALSAMANTA	11	12	13							
12	1701289411	ABHAYA KUMAR NAYAK	11	12	13							
13	1701289412	ABHIJEET MOHANTY	11	12	13							
14	1701289413	AKASH MANDAL	11	12	13							
15	1701289414	ASHUTOSH MISHRA	10	11	12							
16	1701289415	ASTARAGA MAHALA	10	A	11							
17	1701289416	BINAY RAJ KUMAR SAMAL	11	12	13							
18	1701289417	DEEPAK RAJ MAJHI	10	11	12							
19	1701289418	GYANENDRA SAHU	11	12	13							
20	1701289419	LAXMI HEMBROM	11	12	13							
21	1701289420	MOHAMMED INZAMAM UL HAQUE	10	11	12							
22	1701289421	PRIYAMJIT MOHAPATRA	11	12	13							
23	1701289422	SATYARANJAN SAHOO	11	A	12							
24	1701289423	SOUMYA RANJAN ACHARYA	10	11	12							
25	1701289424	SWATI SRIKSHETRI PARIDA	11	12	13							

Satyanarayan Rath

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 03.09.2020

To,

The Principal

Trident Academy of Technology

Bhubaneswar

Sub: Permission to start certificate course in "Data Analytics and Database Management in IoT" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 31.08.2020, we propose to start a course titled "Data Analytics and Database Management in IoT" for B.Tech students from 14.09.2020. The objective of the course is to provide students with foundational knowledge in data analytics, database management, and their applications in the Internet of Things (IoT). The course schedule and duration are attached for your kind approval.

Thanking You,

P Chand

(HOD, CSE)

HOD
Computer Science Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Data Analytics and Database Management in IoT

Total Lecture Periods: 36 hrs

Course Objectives:

This course aims to introduce students to the fundamental concepts of data analytics, database management, and their role in IoT applications. It covers the basics of data collection, storage, processing, and analysis, along with the implementation of database systems in IoT frameworks.

MODULES:

MODULE-I: Introduction to IoT and Data Analytics (9 periods)

- Overview of IoT and its applications
- Introduction to Data Analytics and its significance in IoT
- Types of data in IoT (Structured, Semi-Structured, Unstructured)
- Introduction to Sensors, Data Collection, and Transmission
- Basics of Data Preprocessing and Cleaning in IoT

MODULE-II: Database Management for IoT (9 periods)

- Introduction to Database Management Systems (DBMS)
- SQL and NoSQL Databases for IoT Applications
- Cloud-based Data Storage and Edge Computing
- Real-time Data Processing Techniques
- Case Studies: Database Implementation in IoT Projects

MODULE-III: Data Analytics Techniques in IoT (9 periods)

- Exploratory Data Analysis (EDA) in IoT
- Machine Learning for IoT Data Processing
- Time-Series Data Analysis and Forecasting
- Anomaly Detection and Predictive Maintenance
- Visualization Tools for IoT Data Insights

MODULE-IV: Advanced Topics and Applications in IoT Data Analytics (9 periods)

- Big Data Technologies in IoT

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- AI-Driven Decision Making in IoT
- Security and Privacy Challenges in IoT Data
- Case Studies and Industry Applications
- Project Work: Implementing a Data Analytics Solution for IoT

Course Outcomes:

Upon successful completion of the course, students will be able to:

- CO1: Understand the fundamental concepts of IoT, data analytics, and database management.
- CO2: Implement database solutions for IoT-based applications.
- CO3: Apply data analytics techniques to process and analyze IoT-generated data.
- CO4: Utilize machine learning models for predictive analytics in IoT.
- CO5: Develop real-world IoT-based data analytics solutions.
- CO6: Work on hands-on projects integrating database management and analytics in IoT.

Evaluation Process:

1. Attendance: 75% attendance is mandatory.
2. Minimum Qualifying Marks: 50%
3. Assessment: Continuous assessment through assignments, quizzes, and project work.
4. Certification: Certificate will be issued upon successful completion of the course and assessments.

Suggested Books & Learning Resources:

1. "Internet of Things: Principles and Paradigms" by Rajkumar Buyya, Amir Vahid Dastjerdi
2. "Big Data Analytics for Internet of Things" by Tausifa Jan Saleem, Tanupriya Choudhury

S B Parida
(Course Instructor)

(HOD,CSE)
HOD
Computer Science Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Data Analytics and Database Management in IoT

Sl No	Date	Time	Course Content
1	14/09/2020	3:00 PM - 6:00 PM	Introduction to IoT and Basics of Data Analytics
2	16/09/2020	3:00 PM - 6:00 PM	Data Collection and Preprocessing in IoT
3	17/09/2020	3:00 PM - 6:00 PM	Database Management Systems for IoT
4	18/09/2020	3:00 PM - 6:00 PM	SQL and NoSQL Databases in IoT
5	19/09/2020	3:00 PM - 6:00 PM	Time-Series Data Analysis in IoT
6	21/09/2020	3:00 PM - 6:00 PM	Machine Learning Applications in IoT
7	22/09/2020	3:00 PM - 6:00 PM	Real-Time Data Processing and Edge Computing
8	23/09/2020	3:00 PM - 6:00 PM	Security and Privacy in IoT Data Analytics
9	24/09/2020	3:00 PM - 6:00 PM	Case Studies and Project Work
10	25/09/2020	3:00 PM - 6:00 PM	Case Studies and Project Work
11	26/09/2020	5:00 PM - 6:00 PM	Case Studies and Project Work

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Bhubaneswar-751024

12	28/09/2020	4:00 PM - 6:00 PM	Case Studies and Project Work
13	29/09/2020	5:00 PM - 6:00 PM	Assessment

S B Parida
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:16.09.2020

This is to inform all students of B. Tech that the department of CSE will start an add-on course on "Data Analytics and Database Management in IoT" from 14.09.2020. All interested students must register on or before 11.09.2020.

Course Name: Data Analytics and Database Management in IoT

Instructor Name: S B Parida

Registration Contact: S B Parida

Principal 16/9/20

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Boards

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 12.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Data Analytics and Database Management in IoT".

Respected Sir,

We are going to start course on " Data Analytics and Database Management in IoT " from 14.09.2020 and a total of 25 Students have enrolled for this course. This is for your kind information.

S B Parida
(Course Instructor)

(HOD,CSE)

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Computer Science Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:29.09.2020

Data Analytics and Database Management in IoT

ASSESSMENT

Name Of the Student: Prabhat Nath.
Regd No: 1701289429

9/10

All Questions Compulsory

Q1: What is the primary role of data analytics in IoT?
A) Storing large amounts of data
B) Extracting meaningful insights from IoT-generated data
C) Enhancing hardware efficiency
D) Improving device battery life

Q2: Which database type is most commonly used for handling real-time IoT data?
A) Relational Database Management System (RDBMS)
B) NoSQL Databases
C) File-based Storage
D) Spreadsheet-based Storage

Q3: In IoT, what is the purpose of edge computing?
A) Storing data in a central cloud
B) Processing data closer to the source to reduce latency
C) Reducing the need for security in IoT networks
D) Increasing the bandwidth requirement

Q4: Which SQL statement is used to retrieve data from a database?
A) INSERT B) DELETE
C) SELECT D) UPDATE

Q5: What is a primary key in a relational database?
A) A unique identifier for each record in a table
B) A duplicate value in every row
C) A foreign key in another table
D) A randomly generated number

Q6: What does ETL stand for in data management?
A) Extract, Transfer, Load
B) Extract, Transform, Load
C) Encrypt, Transform, Lock
D) Encode, Transmit, Log

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Q7: In IoT applications, which data processing model is preferred for handling real-time analytics?

A) Batch Processing B) Stream Processing

C) Offline Processing D) Cloud Processing

Q8: Which of the following is an example of a NoSQL database used in IoT?

A) MySQL

B) MongoDB

C) PostgreSQL

D) Oracle

Q9: What is the main advantage of using time-series databases in IoT?

A) They provide high security for financial transactions

B) They efficiently store and analyze data that changes over time

C) They require complex SQL queries for retrieval

D) They only support structured data

Q10: What role does machine learning play in IoT data analytics?

A) It replaces human intervention in database management

B) It helps detect patterns and anomalies in IoT-generated data

C) It is only used for compressing large data files

D) It eliminates the need for database indexing

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 09/20

Subject Code: **Branch:**

Subject: Data Analysis & DBM in IOT

Sl. No	REGD NO	NAME	14/09	16/09	17/09	18/09	19/09	21/09	22/09	23/09	24/09	25/09
1	1701289011	DWIBENDU KUMAR MOHAKUD	1	2	3	4	5	6	7	8	9	10
2	1701289013	BISWAJIT BISWAL	1	2	3	4	5	6	A	7	8	9
3	1701289030	T VINAYSAGAR KUMAR	1	A	2	3	4	5	6	7	8	9
4	1701289042	BIBEKANANDA MOHANTY	1	2	3	4	5	6	7	8	9	10
5	1701289047	RAJESH PARIDA	1	2	3	4	5	6	7	8	9	10
6	1701289050	ADITYA NARAYAN BISWAL	1	2	3	4	5	6	7	8	9	10
7	1701289108	SATISH RATH	1	2	3	4	5	6	7	8	9	10
8	1701289109	SWAYAMBHU SANJIBANI PAL	A	1	2	3	4	5	6	7	8	9
9	1701289144	SHIVNARAYAN PATTNAYAK	1	2	3	4	5	A	6	7	8	9
10	1701289152	SUDHANSHU SEKHAR DASH	1	2	3	4	5	6	7	8	A	9
11	1701289160	DEBASISH SWAIN	1	2	3	4	5	6	7	8	8	10
12	1701289179	SOUMYA PRAKASH KHANDAYATRAY	1	2	3	4	5	6	7	8	9	10
13	1701289185	LIPSA MOHAPATRA	1	2	3	4	5	6	7	8	9	10
14	1701289205	SACHIN KUMAR YADAV	1	A	2	4	5	6	7	8	9	10
15	1701289301	ADITYA PRASAD NAYAK	1	2	3	4	5	6	7	8	9	10
16	1701289302	ANKIT TOPPO	1	2	3	4	5	6	7	8	9	10
17	1701289303	ARPITA CHHAYA	1	A	2	3	4	5	6	7	8	9
18	1701289304	BAIJAYANTI JENA	1	2	A	3	4	5	6	7	8	9
19	1701289305	BISHAL KESHARI	1	2	3	4	5	6	7	8	9	10
20	1701289425	DURGA PRASAD CHOUDHURY	1	2	3	4	5	6	7	8	9	10
21	1701289426	GANESH PRASAD SAHOO	1	2	3	4	5	6	7	8	9	10
22	1701289427	JAGNYASU NARAYAN SATHUA	1	2	3	4	5	6	A	7	8	9
23	1701289428	MIR DANISH ALI	1	2	3	4	5	A	6	7	8	9
24	1701289429	PRABHAT NATH	1	2	3	4	5	6	7	8	9	10
25	1701289430	PRASENJEET SETHY	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 09/20

Subject Code: **Branch:**

Subject: Data Analytics & DBM in IOT

Sl. No	REGD NO	NAME	26/09	28/09	29/09							
1	1701289011	DWIBENDU KUMAR MOHAKUD	11	A	12							
2	1701289013	BISWAJIT BISWAL	10	11	13							
3	1701289030	T VINAYSAGAR KUMAR	10	11	12							
4	1701289042	BIBEKANANDA MOHANTY	11	12	13							
5	1701289047	RAJESH PARIDA	11	12	13							
6	1701289050	ADITYA NARAYAN BISWAL	11	A	12							
7	1701289108	SATISH RATH	11	12	13							
8	1701289109	SWAYAMBHU SANJIBANI PAL	10	11	12							
9	1701289144	SHIVNARAYAN PATTNAYAK	10	11	12							
10	1701289152	SUDHANSHU SEKHAR DASH	10	A	11							
11	1701289160	DEBASISH SWAIN	11	12	13							
12	1701289179	SOUMYA PRAKASH KHANDAYATRAY	11	12	13							
13	1701289185	LIPSA MOHAPATRA	11	12	13							
14	1701289205	SACHIN KUMAR YADAV	11	A	12							
15	1701289301	ADITYA PRASAD NAYAK	11	A	12							
16	1701289302	ANKIT TOPPO	11	12	13							
17	1701289303	ARPITA CHHAYA	10	11	12							
18	1701289304	BAIJAYANTI JENA	10	11	12							
19	1701289305	BISHAL KESHARI	11	12	13							
20	1701289425	DURGA PRASAD CHOUDHURY	11	A	12							
21	1701289426	GANESH PRASAD SAHOO	11	12	13							
22	1701289427	JAGNYASU NARAYAN SATHUA	10	11	12							
23	1701289428	MIR DANISH ALI	10	11	12							
24	1701289429	PRABHAT NATH	11	12	13							
25	1701289430	PRASENJEET SETHY	11	12	13							

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 15.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Android Development through Guided Problem Solving" for B. Tech and MCA students.

Respected Sir,

As per our departmental meeting held on 14.09.2020, we propose to initiate the add on course titled "Mastering Android Development through Guided Problem Solving" for B. Tech and students. This course aims to provide hands-on experience in Android app development, focusing on mobile application design, Android Studio, and practical coding skills. The course will begin on 21.09.2020 and run according to the schedule attached for your kind approval.

Thanking You,

(HOD, CSE)

HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Android Development through Guided Problem Solving

Total Lecture Periods: 30 hrs

Course Objectives:

This course aims to provide students with a thorough understanding of Android application development. By working on guided exercises and real-world examples, students will become proficient in building and deploying Android applications using Java/Kotlin and Android Studio.

MODULES:

MODULE-I: Introduction to Android Development [7 periods]

- Overview of Android OS and Mobile Development
- Setting up the Development Environment: Android Studio, Emulator, SDK
- Basic Components of an Android App: Activities, Services, Broadcast Receivers
- Introduction to Java/Kotlin for Android Development

MODULE-II: User Interface Design [7 periods]

- Understanding Android Layouts: LinearLayout, RelativeLayout, ConstraintLayout
- Designing UI Components: Buttons, TextViews, EditTexts, ListViews
- Handling User Inputs and Events: Button clicks, Text input, Gesture handling
- Working with Images, Icons, and Themes in Android Apps

MODULE-III: Android Programming Fundamentals [6 periods]

- Activity Lifecycle and Intent Management
- Working with Fragment and ViewPager
- Data Management: Shared Preferences, SQLite Database, Content Providers
- Network Operations: RESTful APIs, HTTP Requests, JSON Parsing

MODULE-IV: Advanced Android Development [10 periods]

- Multi-threading and AsyncTask
- Location-based Services and Maps API
- Push Notifications and Firebase Integration
- Debugging, Error Handling, and Performance Optimization in Android Apps
- Publishing Android Apps to Google Play Store

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Trident Academy of Technology
Bhubaneswar-751024

Course Outcomes:

After completion of the course, students will be able to:

- **CO1:** Understand the basics of Android development and set up the development environment.
- **CO2:** Design interactive and user-friendly mobile applications using Android UI components.
- **CO3:** Implement core Android features, including data storage, multi-threading, and networking.
- **CO4:** Build, debug, and optimize Android apps for performance and reliability.
- **CO5:** Publish Android apps on the Google Play Store and integrate third-party services like Firebase.
- **CO6:** Collaborate on group projects to build real-world Android applications.

Evaluation Process:

1. **Attendance:** 75% attendance is mandatory.
2. **Assessment:** Combination of assignments, quizzes, project work, and a final exam.
3. **Certification:** Certificate will be awarded after successful completion of the course and all assessments.

Suggested Books & Learning Resources:

1. **"Android Programming: The Big Nerd Ranch Guide" by Bill Phillips & Chris Stewart**
2. **"Head First Android Development" by Dawn Griffiths & David Griffiths**

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)
HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Android Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	21.09.2020	3:00 PM - 6:00 PM	Introduction to Android OS and Setting up the Development Environment
2	22.09.2020	3:00 PM - 6:00 PM	Android UI Layouts and Components
3	23.09.2020	3:00 PM - 6:00 PM	Designing and Handling User Inputs and Events
4	25.09.2020	3:00 PM - 6:00 PM	Activity Lifecycle, Intents, and Fragment Management
5	26.09.2020	3:00 PM - 6:00 PM	Data Management and SQLite Database Operations
6	27.09.2020	3:00 PM - 6:00 PM	Network Operations, REST APIs, and JSON Parsing
7	28.09.2020	3:00 PM - 6:00 PM	Multi-threading, AsyncTask, and Performance Optimization
8	29.09.2020	3:00 PM - 6:00 PM	Push Notifications, Firebase Integration, Google Maps API
9	30.09.2020	3:00 PM - 6:00 PM	Debugging, Error Handling, and Publishing to Play Store
10	01.10. 2020	3:00 PM - 6:00 PM	Final Project: Building a Complete Android Application
11	03.10.2020	5:00 PM - 6:00 PM	Assessment

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:16.09.2020

This is to inform all B. Tech and MCA that the department of CSE will start an add-on course on "Mastering Android Development through Guided Problem Solving" from 21.09.2020. All interested students must register by 19.09.2020.

Course Name: Mastering Android Development through Guided Problem Solving

Instructor Name: Aditya Narayan Das

Registration Contact: 8249083661

Principal 16/09/20

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 19.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Android Development through Guided Problem Solving".

Respected Sir,

We are going to start course on " Mastering Android Development through Guided Problem Solving " from 21.09.2020 and a total of 192 Students have enrolled for this course. This is for your kind information.

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)
HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:03.10.2020

ANDROID
ASSESSMENT

Name Of the Student: Debasis swain
Regd No: 1701289160

08/10

All Questions Compulsory

1. **What is the AndroidManifest.xml file used for?**
   A) To define UI layouts B) To manage user permissions and app components
   C) To write Kotlin code D) To store user preferences
2. **Which component is responsible for handling background tasks in Android?**
   A) Activity B) Fragment
   C) Service D) ViewModel
3. **Which database library is recommended for Android local storage?**
   A) Firebase B) MySQL
   C) Room D) SQLite
4. **Which Android component is responsible for navigating between different screens?**
   A) RecyclerView B) Intent
   C) WorkManager D) Broadcast Receiver
5. **What is the use of AsyncTask in Android?**
   A) To execute network operations in the main thread
   B) To perform background operations asynchronously
   C) To display UI elements
   D) To manage local storage
6. **What does API stand for?**
   A) Android Program Interface B) Application Programming Interface
   C) Advanced Processing Input D) Automated Program Integration
7. **What is Firebase Authentication used for?**
   A) To store user passwords in a database
   B) To authenticate users using email, phone, or social logins
   C) To handle HTTP requests
   D) To create Android UI designs
8. **Which Android tool is used for debugging and logging messages?**
   A) Logcat B) Gradle
   C) Emulator D) Intent
9. **What is Jetpack Compose used for in Android development?**
   A) For building user interfaces declaratively B) For managing application permissions
   C) For handling database queries D) For compiling Kotlin code
10. **Which of the following is used to define UI elements in Android?**
    A) XML B) JSON
    C) SQL D) HTML

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanarayan

Subject Code:

Month/Year: Sept 2020

Branch:

Subject: Android Development

Sl. No	REGD NO	NAME	21/9	22/9	23/9	25/9	26/9	27/9	28/9	29/9	30/9	01/10
1	1701289042	BIBEKANANDA MOHANTY	1	2	3	X	4	5	6	7	8	9
2	1701289047	RAJESH PARIDA	1	X	3	4	5	6	7	8	9	10
3	1701289050	ADITYA NARAYAN BISWAL	X	1	2	3	4	5	6	7	8	9
4	1701289108	SATISH RATH	1	2	3	4	X	5	6	7	8	9
5	1701289109	SWAYAMBHU SANJIBANI PAL	1	2	3	4	5	6	7	8	9	10
6	1701289144	SHIVNARAYAN PATTNAYAK	1	2	3	4	5	6	7	8	9	10
7	1701289152	SUDHANSHU SEKHAR DASH	X	1	2	3	4	5	6	7	8	9
8	1701289160	DEBASISH SWAIN	1	2	3	4	5	6	7	8	9	10
9	1701289179	SOUMYA PRAKASH KHANDAYATRAY	1	2	3	4	5	6	7	8	9	10
10	1701289185	LIPSA MOHAPATRA	1	2	3	4	5	6	7	8	9	10
11	1701289205	SACHIN KUMAR YADAV	1	2	3	4	X	5	6	7	8	9
12	1701289301	ADITYA PRASAD NAYAK	1	2	3	4	5	6	7	8	9	10
13	1701289302	ANKIT TOPPO	X	1	2	3	4	5	6	7	8	9
14	1701289303	ARPITA CHHAYA	1	2	3	4	5	6	7	8	9	10
15	1701289304	BAIJAYANTI JENA	1	2	3	4	5	6	7	8	9	10
16	1701289305	BISHAL KESHARI	1	2	3	4	5	6	7	8	9	10
17	1701289425	DURGA PRASAD CHOUDHURY	1	2	3	4	X	5	6	7	8	9
18	1701289426	GANESH PRASAD SAHOO	1	2	3	4	5	6	7	8	9	10
19	1701289427	JAGNYASU NARAYAN SATHUA	1	2	3	4	5	6	7	8	9	10
20	1701289428	MIR DANISH ALI	X	1	2	3	4	5	6	7	8	9
21	1701289429	PRABHAT NATH	1	2	3	4	5	6	7	8	9	10
22	1701289430	PRASENJEET SETHY	1	2	3	4	5	6	7	8	9	10
23	1701289431	PURNACHANDRA BEHERA	1	2	3	4	5	6	7	8	9	10
24	1701289432	RAJENDRA DANDA	X	1	2	3	4	5	6	7	8	9
25	1701289433	RITIKA SINGH	1	2	3	4	5	6	7	8	9	10
26	1701289434	SANTANU KUMAR DAS	1	2	3	4	5	6	7	8	9	10
27	1701289435	SMRUTI RANJAN PATEL	1	2	3	4	5	6	7	8	9	10
28	1701289436	SONALI PRADHAN	X	1	2	3	4	5	6	7	8	9
29	1701289437	SONAM TOPPO	1	2	3	4	5	6	7	8	9	10
30	1701289438	SOUBHAGYA SAHU	1	2	3	4	5	6	7	8	9	10

ATTESTED

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Trident Academy of Technology
Bhubaneswar-751024

35	1701289439	SUBHAM MISHRA	1	2	3	4	5	6	7	8	9	10
36	1701289440	SUDEV RANJAN MALLICK	X	1	2	3	X	4	5	6	7	8
37	1701289441	SUMAN KUMAR	1	2	3	4	5	6	7	8	9	10
38	1701289442	SUNIL RANJAN SAHOO	X	1	2	3	4	5	6	7	8	9
39	1821289012	BIJAY KUMAR PARIDA	1	2	3	4	5	6	7	8	9	10
40	1821289015	DEEPAK SWAIN	1	2	X	3	4	5	6	7	8	9
41	1821289021	JAGAN KUMAR SAHU	1	2	3	4	5	6	7	8	9	10
42	1821289024	KAVITA SHARMA	1	2	3	4	5	6	7	8	9	10
43	1701289008	ANIKET PANDIT	1	2	3	4	5	6	7	8	9	10
44	1701289010	PRITAM PAUL	1	2	3	4	X	5	6	7	8	9
45	1701289012	FARHAT PERWEEN	1	2	3	X	4	5	6	7	8	9
46	1701289020	CHIRANJIB MOHAPATRA	1	2	3	4	5	6	7	8	9	10
47	1701289038	ROHIT KUMAR PRAJAPATI	1	2	3	4	5	6	7	8	9	10
48	1701289040	PRUTHWIRAJ PATTANAYAK	1	2	3	4	5	6	7	8	9	10
49	1701289045	SOURAV DASH	X	1	2	3	4	5	6	7	8	9
50	1701289065	SOUMYA JYOTI SAHOO	1	X	2	3	4	5	6	7	8	9
51	1701289066	BISWA RANJAN ROUT	1	2	3	4	5	6	7	8	9	10
52	1701289067	DEBAJYOTI SAHU	1	2	3	4	5	6	7	8	9	10
53	1701289068	ARIJIT SAHOO	1	2	3	4	5	6	7	8	9	10
54	1701289070	ABHISHEK MOHANTY	1	2	3	4	5	6	X	7	8	9
55	1701289079	TARINI KUMAR PATRA	1	2	3	4	5	6	7	8	9	10
56	1701289082	RITESH KUMAR TARENIA	1	2	3	4	5	6	7	8	9	10
57	1701289086	SAHIL SINGH	X	1	2	3	4	5	6	X	7	8
58	1701289092	ASTIK MAHALA	1	2	3	4	5	6	7	8	9	10
59	1701289094	SHEKHAR KUMAR RAY	1	2	3	X	4	5	6	7	8	9
60	1701289096	SUPRITI DAS	1	2	3	4	5	6	7	8	9	10
61	1701289120	JYOTIPRAKASH SAMAL	1	2	3	4	5	6	7	8	9	10
62	1701289125	BISHNU PRIYA ROUT	1	2	3	4	5	6	7	8	9	10
63	1701289128	PRANAB RANJAN SARANGI	1	2	3	4	5	6	7	8	9	10
64	1701289129	SOUMYA SWARUP SUBUDHI	1	2	3	4	X	5	6	7	8	9
65	1701289132	ANKITA NANDA	X	1	2	3	4	5	6	7	8	9
66	1701289136	SOMJIT SWAIN	1	2	X	3	4	5	6	7	8	9
67	1701289139	TELIDEVULAPALLI KAMESWARI PRANATI	1	2	3	4	X	5	6	7	8	9
68	1701289140	KARAN KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
69	1701289142	SUJIT TRIPATHY	1	2	3	4	5	6	7	8	9	10
70	1701289143	ROHAN KUMAR PANDA	1	X	2	3	4	5	6	7	8	9
71	1701289146	ANUSHRITA BARUAH	1	2	3	4	5	6	7	8	9	10
72	1701289153	MEENAKHI PANIGRAHY	1	2	3	4	5	6	7	8	9	10
73	1701289155	JITEN KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
74	1701289156	ANINDITA PATTNAIK	1	X	2	3	4	5	6	7	8	9
75	1701289159	ANKISHA NAYAK	1	2	3	4	5	6	7	8	9	10
76	1701289163	PRADIPTA PALEI	1	2	3	4	5	6	X	7	8	9
77	1701289164	DIVYA RAJ	1	X	2	3	4	5	6	7	8	9

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78	1701289165	MEGHANA PATTANAIK	1	2	3	4	5	X	6	7	8	9
79	1701289168	BANAPILI SAIKUMAR	1	X	2	3	4	5	6	7	8	9
80	1701289173	SYED ANWAR FARAZ HASHMI	1	2	3	4	5	6	7	8	9	10
81	1701289174	SIMRAN BAHUGUNA	1	2	3	4	5	6	7	8	9	10
82	1701289175	SHREYASHI RAJ	X	1	2	3	4	5	6	7	8	10
83	1701289176	SUMAN SUTAR	1	2	X	3	4	5	6	7	8	9
84	1701289178	PRANAB KUMAR SAMAL	1	2	3	4	X	5	6	7	8	9
85	1701289183	SIMRON MOHAPATRA	X	1	2	3	4	5	6	7	8	9
86	1701289193	SAILESH MISHRA	1	2	3	X	4	5	6	7	8	9
87	1701289196	ASISH DASH PARTHASARATHY	1	2	3	4	5	6	7	8	9	10
88	1701289206	SUNIT RANJAN DAS	1	2	3	4	X	5	6	7	8	9
89	1701289213	SANDEEP KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10
90	1701289216	RITURAJ DAS	X	1	2	3	4	5	6	7	8	9
91	1701289222	SALINA MOHANTY	1	2	3	4	5	6	7	8	9	10
92	1701289230	ADHISTHA SWAIN	1	2	3	4	5	6	7	8	9	10
93	1701289239	SONAL KUMAR	1	2	3	4	5	6	7	8	9	10
94	1701289240	SOURABH CHANDRA PAUL	1	2	3	4	5	6	7	8	9	10
95	1701289243	GAYATRI SAMANTARAY	1	2	3	4	5	6	7	8	9	10
96	1701289244	DEEPAK KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
97	1701289248	CHANDAN NAYAK	X	1	2	3	4	5	6	7	8	9
98	1701289249	SHIVANGI MOHANTY	1	2	3	4	5	6	7	8	9	10
99	1701289254	SUCHISMITA SUBUDHI RAY	1	2	3	4	5	6	7	8	9	10
100	1701289255	ABINASH SAHOO	1	2	3	4	X	5	6	7	8	9
101	1701289256	AMIT KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10
102	1701289259	LIPSITA SAHU	1	2	3	4	5	6	7	8	9	10
103	1701289260	SUMAN KUMAR DAS	1	2	3	4	X	5	6	7	8	9
104	1701289262	PRIYA SORENG	1	2	3	4	5	6	7	8	9	10
105	1701289266	SAYANGSIKHA MISHRA	1	2	3	4	5	6	7	8	9	10
106	1701289267	DEBASISH DASH	X	1	2	3	4	5	6	7	8	9
107	1701289271	ANKRIT PATTANAYAK	1	2	3	4	X	5	6	7	8	9
108	1701289275	SHWETA PATNAIK	1	2	3	4	5	6	7	8	9	10
109	1701289165	MEGHANA PATTANAIK	1	2	X	3	4	5	6	7	8	9
110	1701289168	BANAPILI SAIKUMAR	1	2	3	4	5	6	7	8	9	10
111	1701289173	SYED ANWAR FARAZ HASHMI	1	X	2	3	4	5	6	7	8	9
112	1701289174	SIMRAN BAHUGUNA	1	2	3	4	5	6	7	8	9	10
113	1701289175	SHREYASHI RAJ	1	2	3	4	5	6	7	8	9	10
114	1701289176	SUMAN SUTAR	1	2	3	4	5	6	7	8	9	10
115	1701289178	PRANAB KUMAR SAMAL	1	2	3	4	5	6	7	8	9	10
116	1701289183	SIMRON MOHAPATRA	1	2	3	4	X	5	6	7	8	9
117	1701289193	SAILESH MISHRA	1	X	2	3	4	5	6	7	8	9
118	1701289196	ASISH DASH PARTHASARATHY	1	2	3	4	5	6	7	8	9	10

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119	1701289278	SUPRIYA	1	2	3	4	5	X	6	7	8	9
120	1701289306	ABHIYANK SHANKAR	1	2	3	4	5	6	7	8	9	10
121	1701289307	ADITI SINGH	1	X	2	3	4	5	6	7	8	9
122	1701289308	ANKIT KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
123	1701289443	ANUSHKA GIRI	1	2	3	4	5	6	7	8	9	10
124	1701289444	APARNA RAJ	1	2	3	4	5	6	7	8	9	10
125	1701289445	BIREN DAS	X	1	2	3	4	5	6	7	8	9
126	1701289446	DEBENDRA RANJAN BEHERA	1	2	3	4	5	6	7	8	9	10
127	1701289447	DIBYAJYOTI RAY	1	2	3	4	5	6	7	8	9	10
128	1701289448	KRISHNANDU PRADHAN	1	2	3	4	5	6	7	8	9	10
129	1701289449	MANOJ SAHOO	X	1	2	3	4	5	6	7	8	9
130	1701289450	NITIN KUMAR BEHERA	1	2	X	3	4	5	6	7	8	9
131	1701289451	PINKY KUMARI	1	2	3	4	5	X	6	7	8	9
132	1701289452	PRAJNYA ALOKITA PRADHAN	1	2	3	4	5	6	7	8	9	10
133	1701289453	PRATIK KUMAR	1	2	3	4	5	6	7	8	9	10
134	1701289454	PRIYANKA BEHERA	1	2	X	3	4	5	6	7	8	9
135	1701289455	RACHITA RITALI	1	2	3	4	5	6	7	8	9	10
136	1701289456	RAMESH AGHARIA	1	2	3	4	5	6	7	8	9	10
137	1701289457	RASMITA MALLIK	X	1	2	3	4	5	6	7	8	9
138	1701289458	SACHIDANANDA SAHOO	1	2	3	4	5	6	7	8	9	10
139	1701289459	SAMBIT MOHANTY	1	2	3	4	5	6	7	8	9	10
140	1701289460	SAMBIT PRASAD PARIDA	1	2	3	4	5	6	7	8	9	10
141	1701289461	SHRITAM DAS	1	X	2	3	4	5	6	7	8	9
142	1701289462	S.K NIAYZ UDDIN	1	2	3	4	5	6	7	8	9	10
143	1701289463	SUBHASIS PRADHAN	1	X	2	3	4	5	6	7	8	9
144	1701289464	SUBRAT KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
145	1701289465	SURYA NARAYAN SAHOO	1	2	3	4	5	6	7	8	9	10
146	1701289466	ZEENAT PRAWEEN	1	2	3	4	5	6	7	8	9	10
147	1821289018	GAZAL AFROZ	1	2	3	4	5	6	7	8	9	10
148	1821289026	M ASHISH KUMAR	1	2	3	4	5	6	7	8	9	10
149	1821289032	PRATYUSHA KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
150	1821289057	SUBHRANSHU SEKHER DHAL	X	1	2	3	4	5	6	7	8	9
151	1701289278	SUPRIYA	1	2	3	4	5	6	X	7	8	9
152	1701289306	ABHIYANK SHANKAR	1	2	3	4	5	6	7	8	9	10
153	1701289307	ADITI SINGH	1	2	3	4	X	5	6	7	8	9
154	1701289308	ANKIT KUMAR SINGH	X	1	2	3	4	5	6	7	8	9
155	1701289443	ANUSHKA GIRI	1	2	3	4	5	6	7	8	9	10
156	1701289444	APARNA RAJ	1	2	3	4	5	6	7	8	9	10
157	1701289445	BIREN DAS	X	1	2	3	4	5	6	7	8	9
158	1701289446	DEBENDRA RANJAN BEHERA	1	2	3	4	5	6	7	8	9	10
159	1701289447	DIBYAJYOTI RAY	1	2	3	4	5	6	7	8	9	10
160	1701289019	RICKY BADHAI	1	2	3	4	5	6	7	8	9	10

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161	1701289027	SITESH MISHRA	1	2	3	4	5	6	X	7	8	9		
162	1701289035	ARINDAM SAHOO	1	X	2	3	4	5	6	7	8	9		
163	1701289039	SANDEEP KUMAR BEHURA	1	2	X	3	4	5	6	7	8	9		
164	1701289048	MANOSMITA SAMANTARAY	X	1	2	3	4	5	6	7	8	9		
165	1701289051	SWARAJ SAMANTARAY	1	2	3	4	5	6	7	8	9	10		
166	1701289053	ADARSH DARSHAN BEHERA	X	1	2	3	4	5	6	7	8	9		
167	1701289055	GURUPAD RAY	1	2	3	4	5	6	7	8	9	10		
168	1701289072	TUSARKANTA MISHRA	1	2	3	4	5	6	7	8	9	10		
169	1701289075	BAPAN KARMAKAR	1	2	X	3	4	5	6	7	8	9		
170	1701289116	ABHISHEK PRADHAN	1	2	3	4	5	6	7	8	9	10		
171	1701289123	LOPAMUDRA MISHRA	1	2	3	4	5	6	7	8	9	10		
172	1701289130	RUDRA KAWAR	1	2	3	4	5	6	7	8	9	10		
173	1701289133	SUBHAM PATRA	X	1	2	3	4	5	6	7	8	9		
174	1701289141	SOUMYARANJAN SATAPATHY	1	X	2	3	4	5	6	7	8	9		
175	1701289145	BASANT SETHI	1	2	3	4	5	6	7	8	9	10		
176	1701289147	RAKHEE DAS	1	2	3	4	5	6	7	8	9	10		
177	1701289166	AMLAN PATTNAIK	1	2	3	4	X	5	6	7	8	9		
178	1701289171	SURAJ KUMAR SAHOO	1	2	3	4	5	X	6	7	8	9		
179	1701289180	SOUMYA SUBHAM PATRA	X	1	2	3	4	5	6	7	8	9		
180	1701289181	AVIPSA BAL	X	1	2	3	4	5	6	7	8	9		
181	1701289182	NISHA SAWARA	1	2	X	3	4	5	6	7	8	9		
182	1701289186	SARTHAK SAMAL	1	2	3	4	5	X	6	7	8	9		
183	1701289187	NILAMADHAB BEHERA	1	2	3	4	5	6	7	8	9	10		
184	1701289194	SURAJ KUMAR MOHANTY	1	X	2	3	4	5	6	7	8	9		
185	1701289197	SMRITI TIWARY	1	2	3	4	5	6	7	8	9	10		
186	1701289207	BISHNU PRIYA NAIK	1	2	3	4	5	6	7	8	9	10		
187	1701289242	AKASH BAKSHI	1	2	X	3	4	5	6	7	8	9		
188	1701289251	MADHUSMITA MALLICK	1	2	3	4	5	6	7	8	9	10		
189	1701289257	AYASHAKANT SWAIN	1	2	3	4	5	6	7	8	9	10		
190	1701289263	GITAGOBINDA BEDANTA	X	1	2	3	4	5	6	7	8	9		
191	1701289264	VENKAT RAMAN BEHERA	1	2	3	4	5	6	7	8	9	10		
192	1701289272	NIBEDITA MOHANTY	1	2	3	4	5	6	7	8	9	10		

Signature of Teacher

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Date: 03.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Android Development through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 02.09.2020, we are planning to start an add-on course on "Mastering Android Development through Guided Problem Solving" for B. Tech students. This course aims to provide strong foundation in Android app development, focusing on mobile application design, Android Studio, and practical coding skills. The course will begin on 10.09.2020 and run according to the schedule attached for your kind approval.

Thanking You,

(HOD, CSE)

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SYLLABUS

Mastering Android Development through Guided Problem Solving

Total Lecture Periods: 30 hrs

Course Objectives:

This course aims to provide students with a thorough understanding of Android application development. By working on guided exercises and real-world examples, students will become proficient in building and deploying Android applications using Java/Kotlin and Android Studio.

MODULES:

MODULE-I: Introduction to Android Development [7 periods]

- Overview of Android OS and Mobile Development
- Setting up the Development Environment: Android Studio, Emulator, SDK
- Basic Components of an Android App: Activities, Services, Broadcast Receivers
- Introduction to Java/Kotlin for Android Development

MODULE-II: User Interface Design [7 periods]

- Understanding Android Layouts: LinearLayout, RelativeLayout, ConstraintLayout
- Designing UI Components: Buttons, TextViews, EditTexts, ListViews
- Handling User Inputs and Events: Button clicks, Text input, Gesture handling
- Working with Images, Icons, and Themes in Android Apps

MODULE-III: Android Programming Fundamentals [6 periods]

- Activity Lifecycle and Intent Management
- Working with Fragment and ViewPager
- Data Management: Shared Preferences, SQLite Database, Content Providers
- Network Operations: RESTful APIs, HTTP Requests, JSON Parsing

MODULE-IV: Advanced Android Development [10 periods]

- Multi-threading and AsyncTask
- Location-based Services and Maps API
- Push Notifications and Firebase Integration
- Debugging, Error Handling, and Performance Optimization in Android Apps
- Publishing Android Apps to Google Play Store

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Course Outcomes:

After completion of the course, students will be able to:

- **CO1:** Understand the basics of Android development and set up the development environment.
- **CO2:** Design interactive and user-friendly mobile applications using Android UI components.
- **CO3:** Implement core Android features, including data storage, multi-threading, and networking.
- **CO4:** Build, debug, and optimize Android apps for performance and reliability.
- **CO5:** Publish Android apps on the Google Play Store and integrate third-party services like Firebase.
- **CO6:** Collaborate on group projects to build real-world Android applications.

Evaluation Process:

1. **Attendance:** 75% attendance is mandatory.
2. **Assessment:** Combination of assignments, quizzes, project work, and a final exam.
3. **Certification:** Certificate will be awarded after successful completion of the course and all assessments.

Suggested Books & Learning Resources:

1. **"Android Programming: The Big Nerd Ranch Guide" by Bill Phillips & Chris Stewart**
2. **"Headfirst Android Development" by Dawn Griffiths & David Griffiths**

Subhra Swetanisha
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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SCHEDULE

Mastering Android Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	10.09.2020	3:00 PM - 6:00 PM	Introduction to Android OS and Setting up the Development Environment
2	11.09.2020	3:00 PM - 6:00 PM	Android UI Layouts and Components
3	13.09.2020	3:00 PM - 6:00 PM	Designing and Handling User Inputs and Events
4	14.09.2020	3:00 PM - 6:00 PM	Activity Lifecycle, Intents, and Fragment Management
5	15.09.2020	3:00 PM - 6:00 PM	Data Management and SQLite Database Operations
6	16.09.2020	3:00 PM - 6:00 PM	Network Operations, REST APIs, and JSON Parsing
7	17.09.2020	3:00 PM - 6:00 PM	Multi-threading, AsyncTask, and Performance Optimization
8	18.9.2020	3:00 PM - 6:00 PM	Push Notifications, Firebase Integration, Google Maps API
9	19.09.2020	3:00 PM - 6:00 PM	Debugging, Error Handling, and Publishing to Play Store
10	20.09.2020	4:00 PM - 6:00 PM	Final Project: Building a Complete Android Application
11	20.09.2020	5:00 PM - 6:00 PM	Assessment

Subhra Swetanisha
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:05.09.2020

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Mastering Android Development through Guided Problem Solving" from 10.09.2020. All interested students must register on or before 08.09.2020.

Course Name: Mastering Android Development through Guided Problem Solving

Instructor Name: Subhra Swetanisha

Registration Contact: 8242358796

Principal 5/9/20

Principal
Trident Academy of Technology
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Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Date: 09.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Android Development through Guided Problem Solving".

Respected Sir,

We are going to start course on " Mastering Android Development through Guided Problem Solving " from 21.09.2020 and a total of 90 Students have enrolled for this course. This is for your kind information.

Subhra Swetanisha
(Course Instructor)

(HOD,CSE)
HOD
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:21.09.2020

ANDROID
ASSESSMENT

Name Of the Student: Dinesh Sahoo
Regd No: 1701289148

9/10

All Questions Compulsory

1. **What is the AndroidManifest.xml file used for?**
   A) To define UI layouts B) To manage user permissions and app components
   C) To write Kotlin code D) To store user preferences
2. **Which component is responsible for handling background tasks in Android?**
   A) Activity B) Fragment
   C) Service D) ViewModel
3. **Which database library is recommended for Android local storage?**
   A) Firebase B) MySQL
   C) Room D) SQLite
4. **Which Android component is responsible for navigating between different screens?**
   A) RecyclerView B) Intent
   C) WorkManager D) Broadcast Receiver
5. **What is the use of AsyncTask in Android?**
   A) To execute network operations in the main thread
   B) To perform background operations asynchronously
   C) To display UI elements
   D) To manage local storage
6. **What does API stand for?**
   A) Android Program Interface B) Application Programming Interface
   C) Advanced Processing Input D) Automated Program Integration
7. **What is Firebase Authentication used for?**
   A) To store user passwords in a database
   B) To authenticate users using email, phone, or social logins
   C) To handle HTTP requests
   D) To create Android UI designs
8. **Which Android tool is used for debugging and logging messages?**
   A) Logcat B) Gradle
   C) Emulator D) Intent
9. **What is Jetpack Compose used for in Android development?**
   A) For building user interfaces declaratively B) For managing application permissions
   C) For handling database queries D) For compiling Kotlin code
10. **Which of the following is used to define UI elements in Android?**
    A) XML B) JSON
    C) SQL D) HTML

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Attendance Sheet

Name of the Teacher: Subhra Swetanisha **Month/Year:** 9/2020

Subject Code: **Branch:**

Subject: Mastering Androic

Sl. No	REGD NO	NAME	10/09	11/09	13/09	14/09	15/09	16/09	17/09	18/09	19/09	20/09
1	1701289001	HIMADRI TANAYA PANI	1	2	3	4	5	6	7	8	9	10
2	1701289002	MADHABANANDA GHADAI	1	2	3	4	5	6	7	8	9	10
3	1701289003	ABINASH BISWAL	1	✗	2	3	4	5	6	7	8	9
4	1701289004	SUBRAT RANJAN DASH	1	2	3	4	5	6	7	8	9	10
5	1701289005	SASWAT PATRA	1	2	3	4	5	6	7	8	9	10
6	1701289007	DIBYANSHI PANDA	1	2	3	✗	4	5	6	7	8	9
7	1701289009	DEVLAL LOHAR	1	✗	2	3	4	5	6	7	8	9
8	1701289014	AMBIKESH SARANGI	1	2	3	4	5	6	7	8	9	10
9	1701289017	JYOTI RANJAN SWAIN	1	2	3	4	5	6	7	8	9	10
10	1701289018	MOHIT KUMAR MAHANTA	1	2	3	4	5	6	7	8	9	10
11	1701289023	ANANYA PATTNAIK	1	2	3	4	5	6	7	8	9	10
12	1701289024	KRANTIBIR PRATAP RAI	1	2	3	4	5	6	7	8	9	10
13	1701289025	SNEHASHREE DASH	✗	1	2	3	4	5	6	7	8	9
14	1701289026	SHANTANU KUMAR NAYAK	1	2	3	✗	4	✗	5	6	7	8
15	1701289028	JNANABHUSANA BEHERA	1	2	3	4	5	6	7	8	9	10
16	1701289029	HRUSHIKES MOHANTA	1	2	3	4	5	6	7	8	9	10
17	1701289031	AFAQUE ANWAR AZAD	1	2	3	4	5	✗	7	8	9	10
18	1701289032	SHALINI	1	2	3	4	5	6	✗	7	8	9
19	1701289033	SAHIL MAHAPATRA	1	✗	2	4	5	6	7	8	9	10
20	1701289034	DEBASHISH PANDA	1	2	3	4	5	6	7	8	9	10
21	1701289037	PRIYABRATA DAS	1	2	3	4	5	6	7	8	9	10
22	1701289041	DEEPSHIKHA SAHOO	1	2	3	4	5	6	7	8	✗	9
23	1701289044	PRANAYA KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
24	1701289046	POOJA MOHARANA	1	2	3	4	5	6	7	8	9	A
25	1701289056	SAURABH SUBUDHIRAY	1	2	3	4	5	6	7	8	9	10
26	1701289057	SWASTIK DEBAPRIYA ROUT	✗	1	2	3	4	5	6	7	8	9
27	1701289060	GUPTA PRASAD SABAT	1	2	3	4	5	6	7	8	9	10
28	1701289062	BIJAYANANDA LENKA	1	2	3	✗	4	5	6	7	8	9
29	1701289063	KUMAR GAURAV	1	2	3	4	5	6	7	8	9	10
30	1701289064	ANKUR BASUMALLICK	1	2	3	4	5	6	7	8	9	10
35	1701289069	DEBASISH PANDA	1	2	3	4	5	6	7	8	9	10
36	1701289073	SAMHITA SWAYAMSIDDHA SAHOO	1	✗	2	3	4	5	6	7	8	9
37	1701289074	ABHILASH CHAMPATIRAY	1	2	3	4	5	6	7	8	9	10
38	1701289077	PREETAM KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10

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39	1701289078	SILPI RAM	1	2	A	4	5	6	7	8	9	10
40	1701289081	BISWAJEET NAYAK	1	2	3	4	5	A	6	7	8	9
41	1701289083	ALAKA SAHU	1	2	3	4	5	6	7	8	9	10
42	1701289088	PRACHI PRACHURYA ROUT	1	2	3	4	5	6	7	8	9	10
43	1701289089	ROHIT KUMAR JENA	1	2	3	A	4	5	6	7	8	9
44	1701289090	NATASHA MOHAPATRA	1	2	3	4	5	6	7	8	9	10
45	1701289091	SAI HARSSIT	1	2	3	4	5	6	7	8	9	10
46	1701289093	MANISHA DAS	1	2	3	4	5	6	7	8	9	10
47	1701289097	SRITAM NAYAK	1	A	2	3	4	5	6	7	8	9
48	1701289098	ASIM ARBIND SAMAL	1	2	A	3	4	5	6	7	8	9
49	1701289099	SUMAN MOHANTY	1	2	3	4	5	6	7	8	9	10
50	1701289100	SHWETA	1	2	3	4	5	6	7	8	9	10
51	1701289101	SHIVAM SRI	A	1	2	3	4	5	6	7	8	9
52	1701289102	SUBHAM KUMAR PADHIHARY	1	2	3	4	5	6	7	8	9	10
53	1701289103	RASMIRANJAN SWAIN	1	2	3	4	5	6	7	8	9	10
54	1701289104	PRALAY RANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
55	1701289107	SWASTIK SRICHANDAN SAHOO	1	2	3	4	5	6	7	8	9	10
56	1701289110	SURYAKANTA KABI	1	2	3	4	5	6	7	8	9	10
57	1701289111	PRISITA PATEL	1	2	3	4	5	6	7	8	9	10
58	1701289112	HIMANSHU BHUSAN SAHOO	1	2	3	4	5	6	7	8	9	10
59	1701289114	LIPSA LUSINA PRIYADARSHINI	1	2	3	4	5	6	7	8	9	10
60	1701289117	PRIYANKA PRIYADARSINEE	1	2	3	4	5	6	7	8	9	10
61	1701289118	SIBANI MOHANTY	1	2	3	4	5	6	7	8	9	10
62	1701289119	SUBHASHREE SUCHISMITA DAS	1	2	3	4	5	6	7	8	9	10
63	1701289122	CHINMAYA PATRA	1	A	2	3	4	5	6	7	8	9
64	1701289124	PARESH KUMAR SAHOO	1	2	3	4	5	6	7	7	8	9
65	1701289127	SWETALEENA BASA	1	2	3	4	5	6	7	7	8	9
66	1701289135	ANKITA PRIYADARSHINI SWAIN	1	2	3	4	5	6	7	8	8	9
67	1701289137	PREETILISA RAY	1	2	3	4	5	6	7	8	9	10
68	1701289138	ASHUTOSH PADHI	1	2	3	4	5	6	7	8	9	10
69	1701289148	DINESH SAHOO	1	2	3	4	5	6	7	8	9	10
70	1701289149	SUSHREE MOHANTY	1	2	3	4	5	6	7	A	8	9
71	1701289157	DIBYASHREE MOHANTY	1	2	3	4	5	6	7	8	9	10
72	1701289161	SIPRA JENA	1	A	2	3	4	5	6	7	8	9
73	1701289184	PRATIKSHA BARIK	1	2	3	4	5	6	7	8	9	10
74	1701289191	MRINMOY KUMAR	1	2	3	4	5	6	7	8	9	10
75	1701289203	GAYATRY PANDA	1	2	3	4	5	6	7	8	9	A
76	1701289209	ABHIJEET MAHARANA	1	A	2	3	4	4	5	6	7	8
77	1701289210	KUMAR SURJYAM	1	2	3	4	5	6	7	8	9	10
78	1701289217	GAYATREE PATNAIK	1	2	3	4	5	6	7	8	9	10
79	1701289220	OMM PRASAD SAHOO	1	A	2	3	4	5	6	7	8	9
80	1701289221	TULIKA KUMARI	1	2	3	4	5	6	7	8	9	10

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81	1701289223	RITESH KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
82	1701289226	BISWAJIT BEHERA	1	2	3	4	5	6	7	8	9	10
83	1701289227	ANKIT MOHAPATRA	1	A	2	3	4	5	6	7	8	9
84	1701289231	PUNYA SANGEET DHAL	1	2	3	4	5	6	7	8	9	10
85	1701289232	SASMITA SAHOO	1	2	3	4	5	6	7	8	9	10
86	1701289234	JANNAT KUMAR PRADHAN	1	2	3	4	5	6	7	8	9	10
87	1701289235	RADHAGOBINDA MEHER	1	A	2	3	4	5	6	7	8	9
88	1701289237	HAREKRUSHNA LENKA	1	2	A	3	4	A	5	6	7	8
89	1701289238	RAMA CHANDRA PANDA	1	2	3	4	5	6	7	8	9	10
90	1701289246	NITYANANDA BISWAL	1	2	3	4	5	A	6	7	8	9

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Subhra Sudarshan **Month/Year:** 9/2020

Subject Code: **Branch:**

Subject: Mastering Android

Sl. No	REGD NO	NAME	21/09									
1	1701289001	HIMADRI TANAYA PANI	11									
2	1701289002	MADHABANANDA GHADAI	11									
3	1701289003	ABINASH BISWAL	10									
4	1701289004	SUBRAT RANJAN DASH	11									
5	1701289005	SASWAT PATRA	11									
6	1701289007	DIBYANSHI PANDA	10									
7	1701289009	DEVLAL LOHAR	10									
8	1701289014	AMBIKESH SARANGI	11									
9	1701289017	JYOTI RANJAN SWAIN	11									
10	1701289018	MOHIT KUMAR MAHANTA	11									
11	1701289023	ANANYA PATTNAIK	11									
12	1701289024	KRANTIBIR PRATAP RAI	11									
13	1701289025	SNEHASHREE DASH	10									
14	1701289026	SHANTANU KUMAR NAYAK	9									
15	1701289028	JNANABHUSANA BEHERA	11									
16	1701289029	HRUSHIKES MOHANTA	11									
17	1701289031	AFAQUE ANWAR AZAD	11									
18	1701289032	SHALINI	10									
19	1701289033	SAHIL MAHAPATRA	11									
20	1701289034	DEBASHISH PANDA	11									
21	1701289037	PRIYABRATA DAS	11									
22	1701289041	DEEPSHIKHA SAHOO	10									
23	1701289044	PRANAYA KUMAR SINGH	11									
24	1701289046	POOJA MOHARANA	10									
25	1701289056	SAURABH SUBUDHIRAY	11									
26	1701289057	SWASTIK DEBAPRIYA ROUT	10									
27	1701289060	GUPTA PRASAD SABAT	11									
28	1701289062	BIJAYANANDA LENKA	10									
29	1701289063	KUMAR GAURAV	11									
30	1701289064	ANKUR BASUMALLICK	11									
35	1701289069	DEBASISH PANDA	11									
36	1701289073	SAMHITA SWAYAMSIDDHA SAHOO	10									
37	1701289074	ABHILASH CHAMPATIRAY	11									
38	1701289077	PREETAM KUMAR BEHERA	11									

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39	1701289078	SILPI RAM	11										
40	1701289081	BISWAJEET NAYAK	10										
41	1701289083	ALAKA SAHU	11										
42	1701289088	PRACHI PRACHURYA ROUT	11										
43	1701289089	ROHIT KUMAR JENA	10										
44	1701289090	NATASHA MOHAPATRA	11										
45	1701289091	SAI HARSSIT	11										
46	1701289093	MANISHA DAS	11										
47	1701289097	SRITAM NAYAK	10										
48	1701289098	ASIM ARBIND SAMAL	10										
49	1701289099	SUMAN MOHANTY	11										
50	1701289100	SHWETA	11										
51	1701289101	SHIVAM SRI	10										
52	1701289102	SUBHAM KUMAR PADHIHARY	11										
53	1701289103	RASMIRANJAN SWAIN	11										
54	1701289104	PRALAY RANJAN SAHOO	11										
55	1701289107	SWASTIK SRICHANDAN SAHOO	11										
56	1701289110	SURYAKANTA KABI	11										
57	1701289111	PRISITA PATEL	11										
58	1701289112	HIMANSHU BHUSAN SAHOO	11										
59	1701289114	LIPSA LUSINA PRIYADARSHINI	11										
60	1701289117	PRIYANKA PRIYADARSINEE	11										
61	1701289118	SIBANI MOHANTY	11										
62	1701289119	SUBHASHREE SUCHISMITA DAS	11										
63	1701289122	CHINMAYA PATRA	10										
64	1701289124	PARESH KUMAR SAHOO	10										
65	1701289127	SWETALEENA BASA	10										
66	1701289135	ANKITA PRIYADARSHINI SWAIN	10										
67	1701289137	PREETILISA RAY	11										
68	1701289138	ASHUTOSH PADHI	11										
69	1701289148	DINESH SAHOO	11										
70	1701289149	SUSHREE MOHANTY	10										
71	1701289157	DIBYASHREE MOHANTY	11										
72	1701289161	SIPRA JENA	10										
73	1701289184	PRATIKSHA BARIK	11										
74	1701289191	MRINMOY KUMAR	11										
75	1701289203	GAYATRY PANDA	10										
76	1701289209	ABHIJEET MAHARANA	11										
77	1701289210	KUMAR SURJYAM	11										
78	1701289217	GAYATREE PATNAIK	11										
79	1701289220	OMM PRASAD SAHOO	10										
80	1701289221	TULIKA KUMARI	11										

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81	1701289223	RITESH KUMAR PANDA	11										
82	1701289226	BISWAJIT BEHERA	11										
83	1701289227	ANKIT MOHAPATRA	10										
84	1701289231	PUNYA SANGEET DHAL	11										
85	1701289232	SASMITA SAHOO	11										
86	1701289234	JANNAT KUMAR PRADHAN	11										
87	1701289235	RADHAGOBINDA MEHER	10										
88	1701289237	HAREKRUSHNA LENKA	9										
89	1701289238	RAMA CHANDRA PANDA	11										
90	1701289246	NITYANANDA BISWAL	10										

SSneha

Signature of Teacher

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Principal
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Date: 03.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Android Development through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 01.09.2020, we propose to initiate the add on course titled "Mastering Android Development through Guided Problem Solving" for B. Tech and students. This course aims to provide hands-on experience in Android app development, focusing on mobile application design, Android Studio, and practical coding skills. The course will begin on 14.09.2020 and run according to the schedule attached for your kind approval.

Thanking You,

(HOD, CSE)

HOD
Computer Science Engg.

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SYLLABUS

Mastering Android Development through Guided Problem Solving

Total Lecture Periods: 30 hrs

Course Objectives:

This course aims to provide students with a thorough understanding of Android application development. By working on guided exercises and real-world examples, students will become proficient in building and deploying Android applications using Java/Kotlin and Android Studio.

MODULES:

MODULE-I: Introduction to Android Development [7 periods]

- Overview of Android OS and Mobile Development
- Setting up the Development Environment: Android Studio, Emulator, SDK
- Basic Components of an Android App: Activities, Services, Broadcast Receivers
- Introduction to Java/Kotlin for Android Development

MODULE-II: User Interface Design [7 periods]

- Understanding Android Layouts: Linear Layout, Relative Layout, Constraint Layout
- Designing UI Components: Buttons, Text Views, Edit Texts, List Views
- Handling User Inputs and Events: Button clicks, Text input, Gesture handling
- Working with Images, Icons, and Themes in Android Apps

MODULE-III: Android Programming Fundamentals [6 periods]

- Activity Lifecycle and Intent Management
- Working with Fragment and View Pager
- Data Management: Shared Preferences, SQLite Database, Content Providers
- Network Operations: RESTful APIs, HTTP Requests, JSON Parsing

MODULE-IV: Advanced Android Development [10 periods]

- Multi-threading and Async Task
- Location-based Services and Maps API
- Push Notifications and Firebase Integration
- Debugging, Error Handling, and Performance Optimization in Android Apps
- Publishing Android Apps to Google Play Store

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Course Outcomes:

After completion of the course, students will be able to:

- **CO1:** Understand the basics of Android development and set up the development environment.
- **CO2:** Design interactive and user-friendly mobile applications using Android UI components.
- **CO3:** Implement core Android features, including data storage, multi-threading, and networking.
- **CO4:** Build, debug, and optimize Android apps for performance and reliability.
- **CO5:** Publish Android apps on the Google Play Store and integrate third-party services like Firebase.
- **CO6:** Collaborate on group projects to build real-world Android applications.

Evaluation Process:

1. **Attendance:** 75% attendance is mandatory.
2. **Assessment:** Combination of assignments, quizzes, project work, and a final exam.
3. **Certification:** Certificate will be awarded after successful completion of the course and all assessments.

Suggested Books & Learning Resources:

1. "Android Programming: The Big Nerd Ranch Guide" by Bill Phillips & Chris Stewart
2. "Head First Android Development" by Dawn Griffiths & David Griffiths

Biswajit Sarangi
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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Bhubaneswar-751024

SCHEDULE

Mastering Android Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	14/09/2020	3:00 PM - 6:00 PM	Introduction to Android OS and Setting up the Development Environment
2	16/09/2020	3:00 PM - 6:00 PM	Android UI Layouts and Components
3	17/09/2020	3:00 PM - 6:00 PM	Designing and Handling User Inputs and Events
4	18/09/2020	3:00 PM - 6:00 PM	Activity Lifecycle, Intents, and Fragment Management
5	19/09/2020	3:00 PM - 6:00 PM	Data Management and SQLite Database Operations
6	21/09/2020	3:00 PM - 6:00 PM	Network Operations, REST APIs, and JSON Parsing
7	22/09/2020	3:00 PM - 6:00 PM	Multi-threading, AsyncTask, and Performance Optimization
8	23/09/2020	3:00 PM - 6:00 PM	Push Notifications, Firebase Integration, Google Maps API
9	24/09/2020	3:00 PM - 6:00 PM	Debugging, Error Handling, and Publishing to Play Store
10	25/09/2020	3:00 PM - 6:00 PM	Final Project: Building a Complete Android Application
11	26/09/2020	5:00 PM - 6:00 PM	Assessment

Biswajit Sarangi

(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:16.09.2020

This is to inform all B. Tech that the department of CSE will start an add-on course on "Mastering Android Development through Guided Problem Solving" from 14.09.2020. All interested students must register on or before 11.09.2020.

Course Name: Mastering Android Development through Guided Problem Solving

Instructor Name: Biswajit Sarangi

Registration Contact: 7978403218

Principal

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Trident Academy of Technology,
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 12.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: <u>Number of Students Enrolled for the Add-on Course on "Mastering Android Development through Guided Problem Solving".</u>

Respected Sir,

We are going to start course on " Mastering Android Development through Guided Problem Solving " from 14.09.2020 and a total of 44 Students have enrolled for this course. This is for your kind information.

Biswajit Sarangi
(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:26.09.2020

ANDROID
ASSESSMENT

Name Of the Student: Satyam Roy
Regd No: 2201254386

All Questions Compulsory

10/10 Bhagavan

1. **Which programming languages are officially supported for Android development?**
   A) Python and C++ B) Java and Kotlin
   C) Swift and Objective-C D) PHP and Ruby
2. **What is an Activity in Android?**
   A) A background service B) A UI screen that interacts with users
   C) A networking tool D) A file storage system
3. **Which UI component is used for displaying a list of items?**
   A) Button B) TextView
   C) ListView D) ImageView
4. **What is Gradle used for in Android development?**
   A) To compile and build the application B) To store user data
   C) To handle network requests D) To execute SQL queries
5. **Which Android component listens for and responds to system-wide broadcast messages?**
   A) Service B) Activity
   C) Broadcast Receiver D) Fragment
6. **Which cloud service provides push notifications for Android apps?**
   A) AWS Lambda B) Firebase Cloud Messaging (FCM)
   C) Azure DevOps D) Google Cloud Functions
7. **Which layout is recommended for designing flexible UI screens in Android?**
   A) LinearLayout B) RelativeLayout
   C) ConstraintLayout D) FrameLayout
8. **What is the use of ViewModel in Android development?**
   A) It is used for creating database queries
   B) It helps in storing UI-related data across configuration changes
   C) It is used for making network requests
   D) It handles Bluetooth communication
9. **What is WorkManager used for?**
   A) To schedule background tasks efficiently B) To create animations
   C) To execute SQL queries D) To improve battery performance
10. **Which of the following is NOT a valid Android UI component?**
    A) Button B) TextView
    C) RecyclerView D) Gradle

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Biswajit Sarangi **Month/Year:** 09 / 2020

Subject Code: **Branch:**

Subject:

Sl. No	REGD NO	NAME	14/09	16/09	17/09	18/09	19/09	21/09	22/09	23/09	24/09	25/09
1	1701289378	RISHIKA MISHRA	1	2	3	x	4	5	x	6	7	8
2	1701289379	ROJA DAS	1	2	3	4	5	6	7	8	x	9
3	1701289380	SAHIL KUMAR BESHRA	1	2	3	4	5	6	7	8	9	10
4	1701289381	SAMPAD KUMAR BINDHANI	1	2	3	4	5	6	7	8	9	10
5	1701289382	SANTOSINI PATTANAYAK	1	2	3	4	5	6	x	7	8	9
6	1701289383	SASWAT ROUT	1	x	2	3	4	5	6	7	8	9
7	1701289384	SATYABRATA SAHOO	1	2	3	4	5	6	7	8	9	10
8	1701289385	SATYABRATA SAHU	1	2	3	4	5	6	7	8	9	x
9	1701289386	SAYAK ROY	1	2	3	4	5	6	7	8	9	10
10	1701289387	SHISHIR VATS	1	2	x	3	4	5	6	7	8	9
11	1701289388	SHIVANI NAYAK	1	2	3	4	5	6	7	8	9	10
12	1701289389	SHUBHAM RAJ	x	1	2	3	4	5	6	7	8	9
13	1701289390	SHWETA TRIPATHY	1	2	3	4	5	x	6	7	8	9
14	1701289391	SIDDHARTHA SARTHAK	1	2	3	4	5	6	7	8	9	10
15	1701289392	SIMRAN ACHARYA	1	2	3	4	5	x	6	7	8	9
16	1701289393	SIMRAN DIXIT	1	2	3	4	5	6	7	8	9	x
17	1701289394	SIMRAN PRAHARAJ	x	1	2	3	4	5	6	7	x	8
18	1701289395	SIPRA RAY	1	2	3	4	x	5	6	7	8	9
19	1701289396	SK FAYEEMUDDIN	1	2	3	4	5	6	7	8	9	10
20	1701289397	SMRUTI RANJAN JENA	1	2	3	x	4	5	6	7	8	9
21	1701289398	SONALI JENA	1	2	3	4	5	6	x	7	8	9
22	1701289399	SOUBHAGYA RANJAN ROUT	1	2	3	4	5	6	7	8	9	10
23	1701289400	SOUMYARANJAN NATH	1	2	3	x	5	6	7	8	9	10
24	1701289401	SUBHAKANTA SETHY	1	2	3	4	5	6	7	8	9	10
25	1701289402	SHUBHAM KUMAR ROUT	1	2	x	3	4	5	6	7	8	x
26	1701289403	SUBHANKITA JENA	1	2	3	4	5	6	7	8	9	10
27	1701289404	SUBHASHREE SAHU	1	2	3	4	5	x	6	7	8	9
28	1701289405	SUBHASMITA DAS	1	x	2	3	4	5	6	7	8	9
29	1701289406	SUDESHNA SETH	1	2	3	4	5	6	7	8	9	10
30	1701289407	SUMAN DAS	1	x	2	3	4	5	x	6	7	8
35	1701289408	SUSHANTA MAHATO	1	2	3	4	5	6	7	8	9	10
36	1701289409	SUSHILA MAJHI	1	2	3	4	5	6	x	7	8	9
37	1701289410	TARUN KANTI SAMANTA	1	2	3	4	5	6	7	8	9	10
38	1821289008	ARPITA MULIA	1	2	3	x	4	5	6	7	8	9

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39	1821289011	BADAL PARIJA	1	2	3	4	5	6	7	x	8	9
40	1821289043	SALINA PATI	1	2	3	4	5	6	7	8	9	x
41	1701289016	DEEPAK SAHOO	1	x	2	3	4	5	6	x	7	8
42	1701289084	ROSHAN BISWAL	x	1	2	3	4	5	6	7	8	9
43	1701289131	SARFRAZ HUSSAIN	1	2	3	4	5	x	6	7	8	9
44	1701289169	DEVIDUTTA PANIGRAHI	1	2	3	x	4	5	6	7	8	9

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Biswajit Sarangi **Month/Year:** 09/2020

Subject Code: **Branch:**

Subject:

Sl. No	REGD NO	NAME	26/09									
1	1701289378	RISHIKA MISHRA	9									
2	1701289379	ROJA DAS	10									
3	1701289380	SAHIL KUMAR BESHRA	11									
4	1701289381	SAMPAD KUMAR BINDHANI	11									
5	1701289382	SANTOSINI PATTANAYAK	10									
6	1701289383	SASWAT ROUT	10									
7	1701289384	SATYABRATA SAHOO	11									
8	1701289385	SATYABRATA SAHU	10									
9	1701289386	SAYAK ROY	11									
10	1701289387	SHISHIR VATS	10									
11	1701289388	SHIVANI NAYAK	11									
12	1701289389	SHUBHAM RAJ	X									
13	1701289390	SHWETA TRIPATHY	10									
14	1701289391	SIDDHARTHA SARTHAK	11									
15	1701289392	SIMRAN ACHARYA	10									
16	1701289393	SIMRAN DIXIT	10									
17	1701289394	SIMRAN PRAHARAJ	9									
18	1701289395	SIPRA RAY	10									
19	1701289396	SK FAYEEMUDDIN	11									
20	1701289397	SMRUTI RANJAN JENA	10									
21	1701289398	SONALI JENA	10									
22	1701289399	SOUBHAGYA RANJAN ROUT	11									
23	1701289400	SOUMYARANJAN NATH	11									
24	1701289401	SUBHAKANTA SETHY	11									
25	1701289402	SHUBHAM KUMAR ROUT	9									
26	1701289403	SUBHANKITA JENA	10									
27	1701289404	SUBHASHREE SAHU	10									
28	1701289405	SUBHASMITA DAS	10									
29	1701289406	SUDESHNA SETH	11									
30	1701289407	SUMAN DAS	9									
35	1701289408	SUSHANTA MAHATO	11									
36	1701289409	SUSHILA MAJHI	10									
37	1701289410	TARUN KANTI SAMANTA	11									
38	1821289008	ARPITA MULIA	X									

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39	1821289011	BADAL PARIJA	10										
40	1821289043	SALINA PATI	10										
41	1701289016	DEEPAK SAHOO	9										
42	1701289084	ROSHAN BISWAL	10										
43	1701289131	SARFRAZ HUSSAIN	10										
44	1701289169	DEVIDUTTA PANIGRAHI	10										

Signature of Teacher

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Principal
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Bhubaneswar-751024

Date: 08.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Android Development through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 07.09.2020, we propose to initiate the add on course titled "Mastering Android Development through Guided Problem Solving" for B. Tech and students. This course provides hands-on experience in Android app development, focusing on mobile application design, Android Studio, and practical coding skills. The course will begin on 14.09.2020 and run according to the schedule attached for your kind approval.

Thanking You,

(HOD, CSE)

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SYLLABUS

Mastering Android Development through Guided Problem Solving

Total Lecture Periods: 30 hrs

Course Objectives:

This course aims to provide students with a thorough understanding of Android application development. By working on guided exercises and real-world examples, students will become proficient in building and deploying Android applications using Java/Kotlin and Android Studio.

MODULES:

MODULE-I: Introduction to Android Development [7 periods]

- Overview of Android OS and Mobile Development
- Setting up the Development Environment: Android Studio, Emulator, SDK
- Basic Components of an Android App: Activities, Services, Broadcast Receivers
- Introduction to Java/Kotlin for Android Development

MODULE-II: User Interface Design [7 periods]

- Understanding Android Layouts: LinearLayout, RelativeLayout, ConstraintLayout
- Designing UI Components: Buttons, TextViews, EditTexts, ListViews
- Handling User Inputs and Events: Button clicks, Text input, Gesture handling
- Working with Images, Icons, and Themes in Android Apps

MODULE-III: Android Programming Fundamentals [6 periods]

- Activity Lifecycle and Intent Management
- Working with Fragment and ViewPager
- Data Management: Shared Preferences, SQLite Database, Content Providers
- Network Operations: RESTful APIs, HTTP Requests, JSON Parsing

MODULE-IV: Advanced Android Development [10 periods]

- Multi-threading and AsyncTask
- Location-based Services and Maps API
- Push Notifications and Firebase Integration
- Debugging, Error Handling, and Performance Optimization in Android Apps
- Publishing Android Apps to Google Play Store

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Course Outcomes:

After completion of the course, students will be able to:

- **CO1:** Understand the basics of Android development and set up the development environment.
- **CO2:** Design interactive and user-friendly mobile applications using Android UI components.
- **CO3:** Implement core Android features, including data storage, multi-threading, and networking.
- **CO4:** Build, debug, and optimize Android apps for performance and reliability.
- **CO5:** Publish Android apps on the Google Play Store and integrate third-party services like Firebase.
- **CO6:** Collaborate on group projects to build real-world Android applications.

Evaluation Process:

1. **Attendance:** 75% attendance is mandatory.
2. **Assessment:** Combination of assignments, quizzes, project work, and a final exam.
3. **Certification:** Certificate will be awarded after successful completion of the course and all assessments.

Suggested Books & Learning Resources:

1. **"Android Programming: The Big Nerd Ranch Guide" by Bill Phillips & Chris Stewart**
2. **"Head First Android Development" by Dawn Griffiths & David Griffiths**

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)
HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Android Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	14/09/2020	3:00 PM - 6:00 PM	Introduction to Android OS and Setting up the Development Environment
2	15/09/2020	3:00 PM - 6:00 PM	Android UI Layouts and Components
3	17/09/2020	3:00 PM - 6:00 PM	Designing and Handling User Inputs and Events
4	18/09/2020	3:00 PM - 6:00 PM	Activity Lifecycle, Intents, and Fragment Management
5	19/09/2020	3:00 PM - 6:00 PM	Data Management and SQLite Database Operations
6	21/09/2020	3:00 PM - 6:00 PM	Network Operations, REST APIs, and JSON Parsing
7	22/09/2020	3:00 PM - 6:00 PM	Multi-threading, AsyncTask, and Performance Optimization
8	24/09/2020	3:00 PM - 6:00 PM	Push Notifications, Firebase Integration, Google Maps API
9	25/09/2020	3:00 PM - 6:00 PM	Debugging, Error Handling, and Publishing to Play Store
10	26/09/2020	3:00 PM - 6:00 PM	Final Project: Building a Complete Android Application
11	28/09/2020	5:00 PM - 6:00 PM	Assessment

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:09.09.2020

This is to inform all B. Tech and MCA that the department of CSE will start an add-on course on "Mastering Android Development through Guided Problem Solving" from 14.09.2020. All interested students must register on or before 11.09.2020.

Course Name: Mastering Android Development through Guided Problem Solving

Instructor Name: Aditya Narayan Das

Registration Contact: 8249083661

Principal 9/9/20

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 13.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Android Development through Guided Problem Solving".

Respected Sir,

We are going to start course on " Mastering Android Development through Guided Problem Solving " from 14.09.2020 and a total of 47 Students have enrolled for this course. This is for your kind information.

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)
HOD
Computer Science Engg.

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Trident Academy of Technology
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:28.09.2020

ANDROID
ASSESSMENT

Name Of the Student: Dopida Swain
Regd No: 1701289283

8/10

All Questions Compulsory

1. **Which file is used to define the permissions required by an Android application?**
   A) build.gradle B) AndroidManifest.xml
   C) MainActivity.java D) strings.xml
2. **Which component in Android allows users to navigate between different screens?**
   A) Service B) Broadcast Receiver
   C) Intent D) RecyclerView
3. **What is the purpose of ConstraintLayout in Android?**
   A) To create flexible UI layouts that adapt to different screen sizes
   B) To store structured data
   C) To handle API requests
   D) To manage background services
4. **Which method is used to start a new Activity in Android?**
   A) startActivity(Intent) B) launchActivity()
   C) openActivity() D) navigateTo()
5. **Which Android component is used for local database storage?**
   A) Firebase B) SQLite
   C) MongoDB D) Room
6. **Which Android library is used for making network requests?**
   A) Retrofit B) Picasso
   C) Glide D) RecyclerView
7. **Which lifecycle method is called when an activity is no longer visible to the user?**
   A) on Create() B) on Pause()
   C) on Destroy() D) on Stop()
8. **Which Google service is used for real-time database storage in Android?**
   A) Firebase Realtime Database B) SQLite
   C) AWS DynamoDB D) Azure SQL Database
9. **Which Android feature allows apps to receive and handle notifications?**
   A) WorkManager B) Firebase Cloud Messaging (FCM)
   C) Broadcast Receiver D) Room Database
10. **Which file type is used to define Android app layouts?**
    A) .xml B) .json
    C) .txt D) .html

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Attendance Sheet

Name of the Teacher: Adityananayak

Month/Year: 8.9.2020

Subject Code:

Branch:

Subject: Android Development

Sl. No	REGD NO	NAME	14/09	15/09	17/09	18/09	19/09	21/09	22/09	24/09	25/09	26/09
1	1701289270	SATYABRATA JENA	1	2	3	4	5	6	7	8	9	10
2	1701289274	SUBHASHREE MALLA	1	A	2	3	4	5	6	A	7	8
3	1701289277	ANANYA ANINDITA	1	2	3	4	5	6	A	7	9	10
4	1701289281	PRIYA PRIYADARSINI SWAIN	1	2	3	4	5	6	7	8	9	10
5	1701289282	CHINMAYEE DASH	1	2	3	4	5	6	7	8	9	10
6	1701289283	ARPITA SWAIN	1	2	3	4	5	6	7	8	9	10
7	1701289285	DILAN NAYAK	1	2	3	4	5	6	7	8	9	10
8	1701289286	HRUDANANDA PRADHAN	1	2	3	4	5	6	7	8	9	10
9	1701289287	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
10	1701289290	SUBHRA BISWAL	1	2	3	4	5	6	7	8	9	10
11	1701289293	ABHILIPSA SAMAL	A	1	2	3	4	5	6	7	8	9
12	1701289297	ABHIJEET KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
13	1701289298	ABHISHEK BEHERA	1	2	3	4	5	6	7	8	9	10
14	1701289299	ABHISHEK MISHRA	1	2	3	4	5	6	7	8	9	10
15	1701289300	ADITYA BHUSAN BISWAL	1	2	3	4	5	6	7	8	9	10
16	1701289341	AKASH MOHAPATRA	1	2	3	4	5	6	7	8	9	10
17	1701289342	AMIT SINGH	1	2	3	4	5	6	7	8	9	10
18	1701289343	AMULYA KUMAR SATPATHY	1	2	3	4	5	6	7	8	9	10
19	1701289344	ARABINDA NAYAK	1	A	2	3	4	5	6	7	8	9
20	1701289345	ARNABA ROUT	1	2	3	4	5	6	7	8	9	10
21	1701289346	ARSHLAAN NOOR	1	2	3	4	5	6	7	8	9	10
22	1701289347	ASHUTOSH NAYAK	1	2	3	4	5	6	7	8	9	10
23	1701289348	AVASMINI DAS	1	2	3	4	5	6	7	8	9	10
24	1701289349	BAIKUNTHA PRASANA MOHANTY	1	2	3	4	5	6	7	8	9	10
25	1701289350	BIJAYA LAXMI SAHANI	1	A	2	3	4	5	6	7	8	9
26	1701289351	BISWARANJAN PANDA	1	2	3	4	5	6	7	8	9	10
27	1701289352	CHANDAN KUMAR RAI	1	2	3	4	5	6	7	A	8	9
28	1701289353	DEBADATTA SWAIN	1	2	3	4	5	6	7	8	9	10
29	1701289354	DEBOSHREE CHOWDHURY	A	1	2	3	4	5	6	7	8	9
30	1701289355	DEVNANDAN RAJ SHARMA	1	2	3	4	5	6	7	8	9	10
35	1701289356	GAURAV KUMAR	1	2	3	4	5	6	7	8	9	10
36	1701289357	GULNAAZ PARWEEN	1	2	3	A	4	5	6	7	8	9
37	1701289358	HIMANSU SEKHAR GOUDA	1	A	2	3	4	5	6	7	8	9
38	1701289359	JOGAMAYA OTTA	1	2	3	4	5	6	7	8	9	10

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39	1701289360	JYOTI PRAKASH NAYAK	1	2	3	4	5	6	7	8	9	10
40	1701289361	LEENA PARIDA	1	2	3	4	5	6	7	8	9	10
41	1701289362	LOPITA LAGNACHITA MISHRA	1	2	3	4	5	6	7	8	9	10
42	1701289363	MAHAPRASAD NAYAK	1	2	3	4	5	6	7	8	9	10
43	1701289364	MANORAMA MOHANTY	1	2	3	4	5	6	7	8	9	10
44	1701289365	NAVAJAT TRIPATHY	1	2	3	4	5	6	7	8	X	9
45	1701289366	NAVEEN KUMAR	1	2	3	4	5	6	7	8	9	10
46	1701289367	NAVNEETA PRASAD	A	2	2	3	4	5	6	7	8	9
47	1701289368	NIRAKAR SAHOO	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanayak

Subject Code:

Month/Year: Sept. 2020

Branch:

Subject: Android Development

Sl. No	REGD NO	NAME	28/10										
1	1701289270	SATYABRATA JENA	11										
2	1701289274	SUBHASHREE MALLA	9										
3	1701289277	ANANYA ANINDITA	11										
4	1701289281	PRIYA PRIYADARSINI SWAIN	11										
5	1701289282	CHINMAYEE DASH	11										
6	1701289283	ARPITA SWAIN	11										
7	1701289285	DILAN NAYAK	11										
8	1701289286	HRUDANANDA PRADHAN	11										
9	1701289287	BISWAJIT SAHOO	11										
10	1701289290	SUBHRA BISWAL	11										
11	1701289293	ABHILIPSA SAMAL	10										
12	1701289297	ABHIJEET KUMAR NAYAK	11										
13	1701289298	ABHISHEK BEHERA	11										
14	1701289299	ABHISHEK MISHRA	11										
15	1701289300	ADITYA BHUSAN BISWAL	11										
16	1701289341	AKASH MOHAPATRA	11										
17	1701289342	AMIT SINGH	11										
18	1701289343	AMULYA KUMAR SATPATHY	11										
19	1701289344	ARABINDA NAYAK	10										
20	1701289345	ARNABA ROUT	11										
21	1701289346	ARSHLAAN NOOR	11										
22	1701289347	ASHUTOSH NAYAK	11										
23	1701289348	AVASMINI DAS	11										
24	1701289349	BAIKUNTHA PRASANA MOHANTY	10										
25	1701289350	BIJAYA LAXMI SAHANI	10										
26	1701289351	BISWARANJAN PANDA	11										
27	1701289352	CHANDAN KUMAR RAI	10										
28	1701289353	DEBADATTA SWAIN	11										
29	1701289354	DEBOSHREE CHOWDHURY	10										
30	1701289355	DEVNANDAN RAJ SHARMA	11										
35	1701289356	GAURAV KUMAR	11										
36	1701289357	GULNAAZ PARWEEN	10										
37	1701289358	HIMANSU SEKHAR GOUDA	10										
38	1701289359	JOGAMAYA OTTA	11										

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39	1701289360	JYOTI PRAKASH NAYAK	۱۱									
40	1701289361	LEENA PARIDA	۱۱									
41	1701289362	LOPITA LAGNACHITA MISHRA	۱۱									
42	1701289363	MAHAPRASAD NAYAK	۱۱									
43	1701289364	MANORAMA MOHANTY	۱۱									
44	1701289365	NAVAJAT TRIPATHY	۱۰									
45	1701289366	NAVEEN KUMAR	۱۱									
46	1701289367	NAVNEETA PRASAD	۱۰									
47	1701289368	NIRAKAR SAHOO	۱۲									

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 05.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 04.09.2020, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 15.09.2020. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, CSE)

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SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 50hrs
Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [13 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [13 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [12periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly

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- Working with large datasets
- Case study: Data analysis of real-world data

Module-IV: Advanced Python Topics [12periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.

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- **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).
- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Partha Sarathi Mohapatra

Partha Sarthi Mohapatra
(Course Instructer)

PChanel

(HOD,CSE)

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Computer Science Engg.

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SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	15/09/2020	3:00PM-6:00PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	16/09/2020	3:00PM-6:00PM	Data types, variables, operators, and control structures (loops and conditionals)
3	17/09/2020	3:00PM-6:00PM	Functions, modules, packages, debugging techniques, and exception handling
4	18/09/2020	3:00PM-6:00PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	19/09/2020	3:00PM-6:00PM	Stacks, Queues, Linked Lists, and their applications
6	21/09/2020	3:00PM-6:00PM	Sorting and searching algorithms, time and space complexity analysis
7	22/09/2020	3:00PM-6:00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	23/09/2020	3:00PM-6:00PM	Data visualization with Matplotlib
9	24/09/2020	3:00PM-6:00PM	Working with large datasets and a case study on real-world data analysis
10	25/09/2020	3:00PM-6:00PM	OOP concepts in Python
11	26/09/2020	3:00PM-6:00PM	Web scraping with Beautiful Soup and Requests
12	28/09/2020	3:00PM-6:00PM	File handling, and regular expressions
13	29/09/2020	3:00PM-6:00PM	Multi-threading, multiprocessing
14	01/10/2020	3:00PM-6:00PM	Introduction to machine learning with Python
15	03/10/2020	3:00PM-6:00PM	Multi-threading, multiprocessing
16	05/10/2020	4:00PM-6:00PM	Introduction to machine learning with Python
17	06/10/2020	4:00PM-6:00PM	File handling, and regular expressions
18	07/10/2020	5:00PM-6:00PM	Assessment

Partha Sarathi Mohapatra

Partha Sarthi Mohapatra
(Course Instructer)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-11/09/2020

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 15.09. 2020.All interested students are required to register on or before 13.09.2020.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Partha Sarthi Mohapatra

Registration Contact: Partha Sarthi Mohapatra

Principal
11/09/20
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Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Date: 14.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 15.09.2020 and a total of 192 Students have enrolled for this course. This is for your kind information.

Partha Sarathi Mohapatra

Partha Sarthi Mohapatra
(Course Instructer)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:07.10.2020

PYTHON
ASSESSMENT

Name Of the Student: Aniket Pandit
Regd No: 1701289008

08/10

All Questions Compulsory

Q1: Which of the following is a valid Python variable name?
A) 2var B) my_var C) for D) -variable

Q2: What is the output of print(type(5))?
A) <class 'float'> B) <class 'str'>
C) <class 'int'> D) <class 'bool'>

Q3: What keyword is used to define a function in Python?
A) func B) define C) def D) function

Q4: How do you create a list in Python?
A) list = {1,2,3} B) list = [1,2,3]
C) list = (1,2,3) D) list = 1,2,3

Q5: What does the break statement do in a loop?
A) Skips the current iteration
B) Exits the loop immediately
C) Restarts the loop
D) Pauses the execution

Q6: Which of the following is not a Python data structure?
A) List B) Tuple C) Array D) Set

Q7: How do you open a file in Python for reading?
A) open('file.txt', 'r') B) open('file.txt', 'w')
C) open('file.txt', 'rb') D) open('file.txt', 'a')

Q8: Which module is used for handling regular expressions in Python?
A) regex B) re C) reg D) pattern

Q9: What is the main purpose of the Pandas library in Python?
A) Machine Learning B) Web Scraping
C) Data Manipulation D) Image Processing

Q10: What will be the output of bool([])?
A) True B) False C) None D) Error

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Attendance Sheet

Name of the Teacher: Partha Sarathi Mallapatra **Month/Year:** Sep/20

Subject Code: **Branch:**

Subject: Mastering in Python

Sl. No	REGD NO	NAME	26/09	28/09	29/09	01/10	03/10	05/10	06/10	07/10		
1	1701289008	ANIKET PANDIT	11	12	13	14	15	16	17	18		
2	1701289010	PRITAM PAUL	10	11	12	13	14	15	16	17		
3	1701289012	FARHAT PERWEEN	10	11	12	13	14	15	17	18		
4	1701289020	CHIRANJIB MOHAPATRA	X	10	11	12	13	14	15	16		
5	1701289038	ROHIT KUMAR PRAJAPATI	11	12	13	X	14	15	16	17		
6	1701289040	PRUTHWIRAJ PATTANAYAK	11	12	X	13	14	X	15	16		
7	1701289045	SOURAV DASH	10	11	12	13	14	15	X	16		
8	1701289065	SOUMYA JYOTI SAHOO	11	12	13	14	15	16	17	18		
9	1701289066	BISWA RANJAN ROUT	11	12	X	13	14	15	16	17		
10	1701289067	DEBAJYOTI SAHU	11	12	13	14	X	15	16	17		
11	1701289068	ARIJIT SAHOO	10	11	12	13	14	15	X	16		
12	1701289070	ABHISHEK MOHANTY	11	12	13	14	15	16	17	18		
13	1701289079	TARINI KUMAR PATRA	10	X	11	12	13	14	15	16		
14	1701289082	RITESH KUMAR TARENIA	9	10	11	12	13	14	15	16		
15	1701289086	SAHIL SINGH	10	11	12	X	13	14	X	15		
16	1701289092	ASTIK MAHALA	10	11	12	13	14	15	16	17		
17	1701289094	SHEKHAR KUMAR RAY	11	12	13	14	15	16	17	18		
18	1701289096	SUPRITI DAS	X	11	12	13	14	15	16	17		
19	1701289120	JYOTIPRAKASH SAMAL	10	11	12	13	14	15	X	16		
20	1701289125	BISHNU PRIYA ROUT	11	12	13	14	15	16	17	18		
21	1701289128	PRANAB RANJAN SARANGI	10	X	11	12	13	14	15	16		
22	1701289129	SOUMYA SWARUP SUBUDHI	10	11	12	13	14	15	X	16		
23	1701289132	ANKITA NANDA	10	11	12	13	14	15	16	17		
24	1701289136	SOMJIT SWAIN	X	11	12	13	14	15	X	16		
25	1701289139	TELIDEVULAPALLI KAMESWARI PRANATI	10	11	12	13	14	15	16	17		
26	1701289140	KARAN KUMAR SINGH	10	11	12	13	X	14	15	16		
27	1701289142	SUJIT TRIPATHY	11	12	13	14	15	16	17	18		
28	1701289143	ROHAN KUMAR PANDA	11	X	12	13	14	15	16	17		
29	1701289146	ANUSHRITA BARUAH	11	12	13	14	15	16	17	18		
30	1701289153	MEENAKHI PANIGRAHY	11	12	13	14	15	16	17	18		
35	1701289155	JITEN KUMAR PANDA	11	X	12	13	14	15	16	18		
36	1701289156	ANINDITA PATTNAIK	9	10	11	12	13	14	15	16		

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37	1701289159	ANKISHA NAYAK	10	11	X	12	13	14	15	16			
38	1701289163	PRADIPTA PALEI	10	11	12	13	14	15	16	17			
39	1701289164	DIVYA RAJ	10	11	12	13	14	15	16	17			
40	1701289165	MEGHANA PATTANAIK	11	12	13	14	15	16	17	18			
41	1701289168	BANAPILI SAIKUMAR	X	10	11	12	13	14	15	16			
42	1701289173	SYED ANWAR FARAZ HASHMI	10	11	12	13	14	15	16	17			
43	1701289174	SIMRAN BAHUGUNA	10	11	X	12	13	14	15	16			
44	1701289175	SHREYASHI RAJ	10	11	12	13	14	15	16	17			
45	1701289176	SUMAN SUTAR	10	X	12	12	13	14	15	16			
46	1701289178	PRANAB KUMAR SAMAL	11	12	13	14	15	16	17	18			
47	1701289183	SIMRON MOHAPATRA	10	11	12	13	14	15	16	17			
48	1701289193	SAILESH MISHRA	10	X	11	12	13	14	15	16			
49	1701289196	ASISH DASH PARTHASARATHY	11	12	13	14	15	16	17	18			
50	1701289206	SUNIT RANJAN DAS	10	11	12	13	14	15	16	17			
51	1701289213	SANDEEP KUMAR SAHOO	X	11	12	13	14	15	16	17			
52	1701289216	RITURAJ DAS	10	11	12	13	14	15	16	17			
53	1701289222	SALINA MOHANTY	10	12	12	X	13	14	15	16			
54	1701289230	ADHISTHA SWAIN	10	11	12	13	14	15	16	17			
55	1701289239	SONAL KUMAR	10	11	12	13	14	15	16	17			
56	1701289240	SOURABH CHANDRA PAUL	11	12	13	14	15	X	16	17			
57	1701289243	GAYATRI SAMANTARAY	11	12	X	13	14	15	16	17			
58	1701289244	DEEPAK KUMAR SWAIN	10	11	12	13	14	15	16	17			
59	1701289248	CHANDAN NAYAK	11	12	13	14	X	15	16	17			
60	1701289249	SHIVANGI MOHANTY	X	11	12	13	14	15	16	17			
61	1701289254	SUCHISMITA SUBUDHI RAY	10	11	12	13	14	15	16	17			
62	1701289255	ABINASH SAHOO	10	X	12	13	14	X	15	16			
63	1701289256	AMIT KUMAR SAHOO	10	11	12	13	14	15	16	17			
64	1701289259	LIPSITA SAHU	11	X	12	13	14	15	16	17			
65	1701289260	SUMAN KUMAR DAS	10	11	12	13	14	15	X	16			
66	1701289262	PRIYA SORENG	10	11	12	13	14	15	16	17			
67	1701289266	SAYANGSIKHA MISHRA	10	11	12	13	14	15	16	17			
68	1701289267	DEBASISH DASH	11	12	13	14	15	X	16	17			
69	1701289271	ANKRIT PATTANAYAK	11	12	13	14	15	16	17	18			
70	1701289275	SHWETA PATNAIK	11	12	13	14	15	16	17	18			
71	1701289276	ANKITA PRIYADARSINI DAS	9	10	11	12	13	14	15	16			
72	1701289278	SUPRIYA	10	11	12	13	14	15	16	17			
73	1701289306	ABHIYANK SHANKAR	10	11	12	13	14	15	16	17			
74	1701289307	ADITI SINGH	X	10	11	12	13	14	15	16			
75	1701289308	ANKIT KUMAR SINGH	10	11	12	13	14	15	16	17			
76	1701289443	ANUSHKA GIRI	10	12	12	13	14	15	16	17			
77	1701289444	APARNA RAJ	11	12	13	14	15	16	17	18			
78	1701289445	BIREN DAS	11	X	12	13	14	14	15	16			

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79	1701289446	DEBENDRA RANJAN BEHERA	10	11	12	13	X	14	15	16		
80	1701289447	DIBYAJYOTI RAY	9	10	11	12	13	14	15	16		
81	1701289448	KRISHNANDU PRADHAN	10	11	12	13	14	15	16	17		
82	1701289449	MANOJ SAHOO	11	12	13	14	15	16	17	18		
83	1701289450	NITIN KUMAR BEHERA	X	11	12	13	14	15	16	17		
84	1701289451	PINKY KUMARI	11	12	13	14	15	16	17	18		
85	1701289452	PRAJNYA ALOKITA PRADHAN	10	11	X	12	13	14	X	15		
86	1701289453	PRATIK KUMAR	9	10	11	12	13	14	15	16		
87	1701289454	PRIYANKA BEHERA	11	12	13	14	15	15	X	16		
88	1701289455	RACHITA RITALI	10	11	12	13	14	X	15	16		
89	1701289456	RAMESH AGHARIA	10	11	12	13	X	14	15	16		
90	1701289457	RASMITA MALLIK	11	12	13	14	15	16	X	17		
91	1701289458	SACHIDANANDA SAHOO	11	12	13	14	15	16	17	18		
92	1701289459	SAMBIT MOHANTY	X	11	12	13	14	15	16	17		
93	1701289460	SAMBIT PRASAD PARIDA	10	11	12	13	14	15	16	17		
94	1701289461	SHRITAM DAS	11	12	13	14	15	16	17	18		
95	1701289462	S.K NIAYZ UDDIN	11	X	12	13	15	16	17	18		
96	1701289463	SUBHASIS PRADHAN	11	12	13	14	15	16	17	18		
97	1701289464	SUBRAT KUMAR NAYAK	11	12	13	14	15	16	17	18		
98	1701289465	SURYA NARAYAN SAHOO	11	12	X	13	14	15	16	17		
99	1701289466	ZEENAT PRAWEEN	10	11	12	13	14	16	17	18		
100	1701289019	RICKY BADHAI	10	11	12	X	13	14	15	16		
101	1701289027	SITESH MISHRA	11	12	13	14	15	16	17	18		
102	1701289035	ARINDAM SAHOO	11	12	13	14	15	16	17	18		
103	1701289039	SANDEEP KUMAR BEHURA	10	11	12	13	14	15	16	17		
104	1701289048	MANOSMITA SAMANTARAY	11	12	13	14	15	16	17	18		
105	1701289051	SWARAJ SAMANTARAY	11	X	12	13	14	15	16	17		
106	1701289053	ADARSH DARSHAN BEHERA	10	11	12	13	14	X	15	16		
107	1701289055	GURUPAD RAY	11	12	13	14	X	15	16	17		
108	1701289072	TUSARKANTA MISHRA	11	X	12	13	14	15	16	17		
109	1701289075	BAPAN KARMAKAR	11	12	13	14	15	16	17	18		
110	1701289116	ABHISHEK PRADHAN	10	11	X	12	13	14	15	16		
111	1701289123	LOPAMUDRA MISHRA	10	11	12	13	14	15	16	17		
112	1701289130	RUDRA KAWAR	10	11	12	13	14	15	16	17		
113	1701289133	SUBHAM PATRA	11	12	13	14	15	16	17	18		
114	1701289141	SOUMYARANJAN SATAPATHY	11	X	12	13	14	15	16	17		
115	1701289145	BASANT SETHI	10	11	12	13	14	15	16	17		
116	1701289147	RAKHEE DAS	11	12	13	14	15	16	17	18		
117	1701289166	AMLAN PATTNAIK	11	X	12	13	14	15	16	17		
118	1701289171	SURAJ KUMAR SAHOO	10	11	12	13	14	15	16	17		
119	1701289180	SOUMYA SUBHAM PATRA	11	12	13	14	15	16	17	18		

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120	1701289181	AVIPSA BAL	11	12	13	14	X	15	16	17		
121	1701289182	NISHA SAWARA	X	10	11	12	13	14	15	16		
122	1701289186	SARTHAK SAMAL	10	11	12	13	14	15	16	17		
123	1701289187	NILAMADHAB BEHERA	11	12	13	14	15	16	17	18		
124	1701289194	SURAJ KUMAR MOHANTY	10	11	12	13	X	X	14	15		
125	1701289197	SMRITI TIWARY	X	10	11	12	13	14	15	16		
126	1701289207	BISHNU PRIYA NAIK	11	12	13	14	15	16	16	17		
127	1701289242	AKASH BAKSHI	11	12	13	14	15	16	17	18		
128	1701289251	MADHUSMITA MALLICK	11	12	13	14	X	15	16	17		
129	1701289257	AYASHAKANT SWAIN	11	X	12	13	14	15	X	16		
130	1701289263	GITAGOBINDA BEDANTA	10	11	12	13	14	15	16	17		
131	1701289264	VENKAT RAMAN BEHERA	11	12	13	14	15	16	17	18		
132	1701289272	NIBEDITA MOHANTY	10	11	12	13	14	15	16	17		
133	1701289273	S.SONU PATRA	10	11	X	12	13	14	15	16		
134	1701289279	SOUMYA RANJAN SAHOO	9	10	11	12	13	14	15	16		
135	1701289280	TURALA DEVI PRASANNA	11	12	13	14	15	16	17	18		
136	1701289289	DHEERAJ KUMAR	10	11	12	13	14	15	16	17		
137	1701289292	SATYAM SAMAL	11	12	13	14	15	16	17	18		
138	1701289309	ABHISHEK KUMAR	11	X	12	13	14	15	16	17		
139	1701289310	ANUP KUJUR	11	12	13	14	15	16	17	18		
140	1701289467	BINIT KUMAR PANDA	9	10	11	12	13	14	15	16		
141	1701289468	C.SAI RAKSHA	11	12	13	14	15	16	17	18		
142	1701289469	DEEPAK BEHERA	11	12	13	14	15	16	17	18		
143	1701289470	GANESH PRADHAN	10	11	12	13	14	15	16	17		
144	1701289471	KUMAR SAI PRITAM	X	11	12	13	14	15	16	17		
145	1701289472	MADHAV KUMAR	10	11	12	13	14	15	16	17		
146	1701289473	MADHUMAYEE PATRA	10	11	X	12	13	14	15	16		
147	1701289474	MAHESWATA DAS	10	11	12	13	14	15	16	17		
148	1701289475	MAYURESH MOHANTY	X	10	11	12	13	14	15	16		
149	1701289476	MD ANJAR KHAN	11	12	13	14	15	16	17	18		
150	1701289477	PRABHU DAYA ABHIJEET	9	10	11	12	13	14	15	16		
151	1701289478	PRERNA KUMARI SINGH	11	12	13	14	15	16	17	18		
152	1701289479	RABINDRA KUMAR SENAPATI	11	12	13	14	15	16	17	18		
153	1701289480	SIMRAN KUMARI	11	12	13	15	16	17	18	19		
154	1701289481	SOURAVRAJ PARIDA	10	11	12	13	14	15	16	17		
155	1701289006	SIDHARTH SEKHAR SAHOO	10	11	12	13	X	14	15	16		
156	1701289015	BISWAJIT MOHANTY	10	11	X	12	13	14	15	16		
157	1701289021	ABHISHEK ARPAN MOHANTA	10	11	12	13	14	15	X	16		
158	1701289022	KIRAN KUMAR SAHOO	10	11	12	13	14	15	16	17		
159	1701289036	WAHID UDDIN	11	12	13	14	15	16	17	18		
160	1701289043	AKASH KUMAR NAIK	11	12	X	13	14	15	16	17		
161	1701289054	DURGASISH BHATTACHARYA	10	11	12	13	14	15	16	17		
162	1701289058	AMANDEEP PANDA	11	12	13	14	15	16	17	18		

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163	1701289059	DEBASHISH NAYAK	10	11	12	13	14	15	16	17		
164	1701289076	SAIKAT BHAKAT	11	12	13	14	X	15	16	17		
165	1701289087	TANMAYA KUMAR ACHARYA	X	10	11	12	13	14	15	16		
166	1701289095	G SANTOSH	11	12	13	14	15	16	17	18		
167	1701289105	SOUMIK KUMAR GHOSH	10	X	11	12	13	14	15	16		
168	1701289113	DEBASIS MISHRA	11	12	13	14	15	16	17	18		
169	1701289121	GOPINATH BEHERA	11	12	X	13	14	15	16	17		
170	1701289126	RASHMI RANJAN SAHOO	10	11	12	13	14	15	16	17		
171	1701289150	SUDEEP KUMAR BISWAL	11	12	X	13	14	15	16	17		
172	1701289151	SAI OMPRAKASH SAHU	9	10	11	12	13	14	15	16		
173	1701289158	V.V.NITISH BHARADWAJ	11	12	13	14	15	16	17	18		
174	1701289162	DEEP SUNDAR BEHERA	9	10	11	12	13	14	15	16		
175	1701289167	SABYASACHI CHOUDHURY	11	12	13	14	15	16	17	18		
176	1701289192	DEBANJAN ROUT	10	12	13	14	15	16	17	18		
177	1701289198	ASHUTOSH BARIK	10	11	12	13	X	14	14	15		
178	1701289200	MRUTYUNJAYA PANIGRAHI	10	11	12	13	14	15	16	17		
179	1701289202	DIGBIJAYA NAIK	10	X	11	12	13	X	14	15		
180	1701289225	ACHYUTA NANDA BISHOYI	11	12	13	14	15	16	17	18		
181	1701289229	SUBRAT KUMAR SAHU	11	X	12	13	14	15	16	17		
182	1701289245	SURYAKANTA SAHOO	11	12	13	14	15	16	17	18		
183	1701289247	NAKEEB AHAMMED	9	10	11	12	13	14	15	16		
184	1701289253	ADIT MISHRA	11	X	12	13	14	15	15	16		
185	1701289268	JYOTIRANJAN DAS	11	12	13	14	15	16	16	17		
186	1701289288	SHUBHAM RAJ	10	11	12	13	14	15	16	17		
187	1701289311	AAMIR HASSAN	9	10	11	12	X	13	14	15		
188	1701289312	ABHISHEK PANDA	10	11	12	13	14	15	16	17		
189	1701289313	AJIT KUMAR MURMU	10	12	13	14	15	16	17	18		
190	1701289314	ANUPAM INDWAR	11	12	13	X	14	15	16	17		
191	1701289315	ASHIS RANJAN NAYAK	11	12	13	14	15	16	17	18		
192	1701289316	BISWAJIT SATPATHY	10	11	12	13	14	15	16	17		

Pantha Sarathi Mohapatra

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 03.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 02.09.2020, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 14.09.2020. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

PChanel

(HOD, CSE)

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SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 50hrs
Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [13 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [13 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [12periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly

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- Working with large datasets
- Case study: Data analysis of real-world data

Module-IV: Advanced Python Topics [12periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.

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- **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).
- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

PChand

Padmabati Chand
(Course Instructor)

PChand

(HOD,CSE)

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SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	14/09/2020	3:00PM-6:00PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	16/09/2020	3:00PM-6:00PM	Data types, variables, operators, and control structures (loops and conditionals)
3	17/09/2020	3:00PM-6:00PM	Functions, modules, packages, debugging techniques, and exception handling
4	18/09/2020	3:00PM-6:00PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	19/09/2020	3:00PM-6:00PM	Stacks, Queues, Linked Lists, and their applications
6	21/09/2020	3:00PM-6:00PM	Sorting and searching algorithms, time and space complexity analysis
7	22/09/2020	3:00PM-6:00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	23/09/2020	3:00PM-6:00PM	Data visualization with Matplotlib
9	24/09/2020	3:00PM-6:00PM	Working with large datasets and a case study on real-world data analysis
10	25/09/2020	3:00PM-6:00PM	OOP concepts in Python
11	26/09/2020	3:00PM-6:00PM	Web scraping with Beautiful Soup and Requests
12	28/09/2020	3:00PM-6:00PM	File handling, and regular expressions
13	29/09/2020	3:00PM-6:00PM	Multi-threading, multiprocessing
14	01/10/2020	3:00PM-6:00PM	Introduction to machine learning with Python
15	03/10/2020	3:00PM-6:00PM	Multi-threading, multiprocessing
16	05/10/2020	4:00PM-6:00PM	Introduction to machine learning with Python
17	06/10/2020	4:00PM-6:00PM	File handling, and regular expressions
18	07/10/2020	5:00PM-6:00PM	Assessment

PChand

Padmabati Chand
(Course Instructor)

PChand

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-06/09/2020

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 14.09. 2020.All interested students are required to register on or before 11.09.2020.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Partha Sarthi Mohapatra

Registration Contact: Partha Sarthi Mohapatra

Principal 08/09/20
Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
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Bhubaneswar-751024

Date: 12.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 14.09.2020 and a total of 90 Students have enrolled for this course. This is for your kind information.

P Chand

Padmabati Chand
(Course Instructor)

P Chand

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:07.10.2020

PYTHON
ASSESSMENT

Name Of the Student: Manisha Das
Regd No: 1701289093

10/10

All Questions Compulsory

Q1: Which of the following is used to define a block of code in Python?
A) {} (Curly Braces) B) Indentation
C) () (Parentheses) D) BEGIN and END

Q2: What is the purpose of the super keyword in Python?
A) To define a new variable B) To call the parent class constructor
C) To create a new instance D) To override methods

Q3: Which of the following is NOT a valid variable name in Python?
A) _myvar B) my_var C) 2var D) myVar

Q4: Which function is used to get the length of a list in Python?
A) count() B) length() C) len() D) size()

Q5: What is the correct syntax to define a function in Python?
A) function myfunc(): B) def myfunc():
C) define myfunc(): D) create myfunc():

Q6: What is the default mode when opening a file using the open() function?
A) Read mode B) Write mode
C) Append mode D) Binary mode

Q7: Which of the following data structures does NOT allow duplicate values?
A) List B) Dictionary C) Tuple D) Set

Q8: What does the is keyword compare in Python?
A) Values of two objects
B) Memory locations of two objects
C) Data type of two variables
D) Length of two objects

Q9: Which Python module is used for regular expressions?
A) re B) regex
C) reg D) expr

Q10: What will be the output of print(bool(""))?
A) True
B) False
C) None
D) Error

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Pradnyarani Chavan **Month/Year:** 09/2020

Subject Code: **Branch:**

Subject: Machine Learning Python

Sl. No	REGD NO	NAME	14/09	16/09	17/09	18/09	19/09	21/09	22/09	23/09	24/09	25/09
1	1701289023	ANANYA PATTNAIK	1	2	3	4	5	6	7	X	8	9
2	1701289024	KRANTIBIR PRATAP RAI	1	2	3	X	4	5	6	7	8	9
3	1701289025	SNEHASHREE DASH	1	X	2	3	4	5	6	7	8	9
4	1701289026	SHANTANU KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
5	1701289028	JNANABHUSANA BEHERA	1	2	3	4	5	6	7	8	9	9
6	1701289029	HRUSHIKES MOHANTA	1	2	X	3	4	5	6	7	8	9
7	1701289031	AFAQUE ANWAR AZAD	1	2	3	4	5	6	7	8	9	10
8	1701289032	SHALINI	X	1	2	3	4	5	6	7	8	9
9	1701289033	SAHIL MAHAPATRA	1	2	3	4	5	6	7	X	8	9
10	1701289034	DEBASHISH PANDA	1	2	3	4	5	6	X	7	8	9
11	1701289037	PRIYABRATA DAS	1	2	X	3	4	5	6	7	8	9
12	1701289041	DEEPSHIKHA SAHOO	1	2	3	4	5	6	7	8	9	10
13	1701289044	PRANAYA KUMAR SINGH	1	2	3	X	4	5	6	7	8	9
14	1701289046	POOJA MOHARANA	1	2	3	4	5	6	7	8	9	10
15	1701289056	SAURABH SUBUDHIRAY	1	2	3	4	5	6	7	8	9	10
16	1701289057	SWASTIK DEBAPRIYA ROUT	1	2	3	4	5	6	7	8	9	10
17	1701289060	GUPTA PRASAD SABAT	1	2	3	4	5	6	7	8	9	10
18	1701289062	BIJAYANANDA LENKA	1	2	3	4	5	6	7	8	9	10
19	1701289063	KUMAR GAURAV	1	2	3	4	X	5	6	7	8	9
20	1701289064	ANKUR BASUMALLICK	1	2	3	4	5	6	7	8	9	10
21	1701289069	DEBASISH PANDA	1	2	3	4	5	6	X	7	8	9
22	1701289073	SAMHITA SWAYAMSIDDHA SAHOO	X	1	2	3	4	5	6	7	8	9
23	1701289074	ABHILASH CHAMPATIRAY	1	2	3	4	X	5	6	7	8	9
24	1701289077	PREETAM KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
25	1701289078	SILPI RAM	1	2	3	4	5	6	7	8	9	10
26	1701289081	BISWAJEET NAYAK	1	2	X	3	4	5	6	7	8	9
27	1701289083	ALAKA SAHU	1	2	3	4	5	6	7	8	9	10
28	1701289088	PRACHI PRACHURYA ROUT	1	2	3	4	5	6	7	8	9	10
29	1701289089	ROHIT KUMAR JENA	1	2	3	4	X	5	6	7	8	9
30	1701289090	NATASHA MOHAPATRA	1	2	3	4	5	X	6	7	8	9
35	1701289091	SAI HARSSIT	1	2	3	4	5	6	7	8	9	10
36	1701289093	MANISHA DAS	1	2	3	4	5	6	7	8	9	10
37	1701289097	SRITAM NAYAK	1	2	3	4	5	6	7	8	9	10
38	1701289098	ASIM ARBIND SAMAL	1	2	X	3	4	5	6	7	8	9

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39	1701289099	SUMAN MOHANTY	1	2	3	X	4	5	6	7	8	9
40	1701289100	SHWETA	1	X	2	3	4	5	6	7	8	9
41	1701289101	SHIVAM SRI	1	2	3	4	5	6	7	8	9	10
42	1701289102	SUBHAM KUMAR PADHIHARY	1	2	3	4	5	6	7	8	9	10
43	1701289103	RASMIRANJAN SWAIN	1	2	3	4	5	6	7	8	9	10
44	1701289104	PRALAY RANJAN SAHOO	1	2	3	4	X	5	6	7	8	9
45	1701289107	SWASTIK SRICHANDAN SAHOO	1	2	3	4	5	6	7	8	9	10
46	1701289110	SURYAKANTA KABI	1	2	3	4	5	6	7	8	9	10
47	1701289111	PRISITA PATEL	1	2	3	X	4	5	6	7	8	9
48	1701289112	HIMANSHU BHUSAN SAHOO	X	1	X	2	3	4	5	6	7	8
49	1701289114	LIPSA LUSINA PRIYADARSHINI	1	2	3	4	5	6	7	8	9	10
50	1701289117	PRIYANKA PRIYADARSINEE	1	2	3	4	5	6	7	8	9	10
51	1701289118	SIBANI MOHANTY	1	2	3	4	5	6	7	8	9	10
52	1701289119	SUBHASHREE SUCHISMITA DAS	1	2	3	4	5	6	7	X	8	9
53	1701289122	CHINMAYA PATRA	1	2	3	4	5	6	7	8	9	10
54	1701289124	PARESH KUMAR SAHOO	1	2	3	4	5	X	6	7	8	9
55	1701289127	SWETALEENA BASA	1	2	3	4	5	6	7	X	8	9
56	1701289135	ANKITA PRIYADARSHINI SWAIN	1	2	3	4	5	6	7	8	9	10
57	1701289137	PREETILISA RAY	1	2	3	4	5	6	7	8	9	10
58	1701289138	ASHUTOSH PADHI	1	2	X	3	4	5	6	7	8	9
59	1701289148	DINESH SAHOO	1	2	3	4	5	6	7	8	9	10
60	1701289149	SUSHREE MOHANTY	1	2	3	4	5	6	7	8	9	10
61	1701289157	DIBYASHREE MOHANTY	1	2	3	4	5	6	7	8	9	10
62	1701289161	SIPRA JENA	1	2	X	3	4	5	6	7	8	9
63	1701289184	PRATIKSHA BARIK	1	2	3	4	5	6	7	8	9	10
64	1701289191	MRINMOY KUMAR	1	2	3	4	5	6	7	8	9	10
65	1701289203	GAYATRY PANDA	1	2	X	3	4	5	6	7	8	9
66	1701289209	ABHIJEET MAHARANA	1	2	3	4	5	6	7	8	9	10
67	1701289210	KUMAR SURJYAM	1	2	3	4	5	6	7	8	9	10
68	1701289217	GAYATREE PATNAIK	1	X	3	4	5	6	7	8	9	10
69	1701289220	OMM PRASAD SAHOO	1	2	3	4	5	X	6	7	8	9
70	1701289221	TULIKA KUMARI	1	2	3	4	X	5	6	7	8	9
71	1701289223	RITESH KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
72	1701289226	BISWAJIT BEHERA	1	2	3	4	5	6	7	8	9	10
73	1701289227	ANKIT MOHAPATRA	1	2	3	4	5	6	7	8	9	10
74	1701289231	PUNYA SANGEET DHAL	1	2	3	4	5	6	7	8	9	10
75	1701289232	SASMITA SAHOO	1	2	3	4	5	6	7	8	9	10
76	1701289234	JANNAT KUMAR PRADHAN	1	X	3	3	4	5	6	X	7	8
77	1701289235	RADHAGOBINDA MEHER	1	2	3	4	5	6	7	8	9	10
78	1701289237	HAREKRUSHNA LENKA	1	2	3	4	5	6	7	8	9	10
79	1701289238	RAMA CHANDRA PANDA	1	2	3	4	5	6	7	8	9	10
80	1701289246	NITYANANDA BISWAL	1	2	3	4	5	6	7	8	9	10

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81	1701289250	NADIP KUMAR JENA	1	2	3	X	4	5	6	7	8	9
82	1701289252	YASISH GAUCHAN	1	2	3	4	5	6	7	8	9	10
83	1701289261	SHAILJA SINHA	1	2	3	4	5	6	7	8	9	10
84	1701289265	S BIGHNESH KUMAR	1	2	3	4	5	6	7	8	9	10
85	1701289270	SATYABRATA JENA	1	2	3	4	5	6	7	8	9	10
86	1701289274	SUBHASHREE MALLA	1	X	3	4	5	6	7	8	9	10
87	1701289277	ANANYA ANINDITA	1	2	3	X	4	5	6	7	8	9
88	1701289281	PRIYA PRIYADARSINI SWAIN	1	2	3	4	X	5	6	7	8	9
89	1701289282	CHINMAYEE DASH	1	2	3	4	5	6	7	8	9	10
90	1701289283	ARPITA SWAIN	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Padmavati Chavel **Month/Year:** 09/2020

Subject Code: **Branch:**

Subject: Mastering Python

Sl. No	REGD NO	NAME	26/09	28/09	29/09	01/10	03/10	05/10	06/10	07/10		
1	1701289023	ANANYA PATTNAIK	10	11	12	13	14	15	16	17		
2	1701289024	KRANTIBIR PRATAP RAI	10	11	12	13	14	15	16	17		
3	1701289025	SNEHASHREE DASH	10	11	12	X	13	14	X	15		
4	1701289026	SHANTANU KUMAR NAYAK	X	11	12	13	14	15	16	17		
5	1701289028	JNANABHUSANA BEHERA	10	11	12	13	14	15	16	17		
6	1701289029	HRUSHIKES MOHANTA	10	11	12	13	X	14	15	16		
7	1701289031	AFAQUE ANWAR AZAD	11	12	13	14	14	15	16	17		
8	1701289032	SHALINI	10	X	11	12	13	14	15	16		
9	1701289033	SAHIL MAHAPATRA	10	11	12	13	14	15	16	17		
10	1701289034	DEBASHISH PANDA	10	11	X	12	13	14	15	16		
11	1701289037	PRIYABRATA DAS	10	11	12	13	14	15	16	17		
12	1701289041	DEEPSHIKHA SAHOO	11	12	13	14	15	16	17	18		
13	1701289044	PRANAYA KUMAR SINGH	10	11	12	13	X	14	15	16		
14	1701289046	POOJA MOHARANA	11	12	13	14	15	16	17	18		
15	1701289056	SAURABH SUBUDHIRAY	11	X	12	13	14	15	16	17		
16	1701289057	SWASTIK DEBAPRIYA ROUT	11	12	X	13	14	15	16	17		
17	1701289060	GUPTA PRASAD SABAT	11	12	13	14	15	16	17	18		
18	1701289062	BIJAYANANDA LENKA	11	12	13	14	X	15	16	X		
19	1701289063	KUMAR GAURAV	10	11	12	13	14	15	16	17		
20	1701289064	ANKUR BASUMALLICK	11	12	13	14	15	16	17	18		
21	1701289069	DEBASISH PANDA	10	11	12	13	14	15	16	17		
22	1701289073	SAMHITA SWAYAMSIDDHA SAHOO	10	11	12	13	14	15	16	17		
23	1701289074	ABHILASH CHAMPATIRAY	10	11	12	X	13	14	15	16		
24	1701289077	PREETAM KUMAR BEHERA	11	12	13	14	15	16	17	18		
25	1701289078	SILPI RAM	11	X	12	13	14	15	16	17		
26	1701289081	BISWAJEET NAYAK	X	10	11	12	X	13	14	15		
27	1701289083	ALAKA SAHU	11	12	13	14	15	16	17	18		
28	1701289088	PRACHI PRACHURYA ROUT	11	12	13	14	15	16	17	18		
29	1701289089	ROHIT KUMAR JENA	10	X	11	12	13	14	15	16		
30	1701289090	NATASHA MOHAPATRA	10	11	12	13	14	15	16	17		
35	1701289091	SAI HARSSIT	11	12	13	14	15	16	17	18		
36	1701289093	MANISHA DAS	11	12	13	14	15	16	17	18		
37	1701289097	SRITAM NAYAK	11	12	13	14	15	16	17	18		
38	1701289098	ASIM ARBIND SAMAL	10	11	12	12	13	14	15	16		

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39	1701289099	SUMAN MOHANTY	10	11	12	X	13	14	15	16		
40	1701289100	SHWETA	10	11	12	13	14	15	16	17		
41	1701289101	SHIVAM SRI	11	12	13	14	15	16	17	18		
42	1701289102	SUBHAM KUMAR PADHIHARY	11	12	13	14	15	16	17	18		
43	1701289103	RASMIRANJAN SWAIN	11	X	12	13	14	15	16	17		
44	1701289104	PRALAY RANJAN SAHOO	10	11	12	13	X	14	15	16		
45	1701289107	SWASTIK SRICHANDAN SAHOO	11	12	13	14	15	16	17	18		
46	1701289110	SURYAKANTA KABI	11	X	12	13	14	15	16	17		
47	1701289111	PRISITA PATEL	10	11	12	13	X	14	15	16		
48	1701289112	HIMANSHU BHUSAN SAHOO	9	10	11	12	13	14	15	16		
49	1701289114	LIPSA LUSINA PRIYADARSHINI	11	12	13	14	X	15	16	17		
50	1701289117	PRIYANKA PRIYADARSINEE	11	X	12	13	14	15	16	17		
51	1701289118	SIBANI MOHANTY	11	12	13	14	X	15	16	17		
52	1701289119	SUBHASHREE SUCHISMITA DAS	10	11	12	14	15	16	17	18		
53	1701289122	CHINMAYA PATRA	11	12	13	14	15	16	17	18		
54	1701289124	PARESH KUMAR SAHOO	10	11	12	13	X	14	15	16		
55	1701289127	SWETALEENA BASA	10	11	12	13	14	15	16	17		
56	1701289135	ANKITA PRIYADARSHINI SWAIN	11	12	13	14	15	16	17	18		
57	1701289137	PREETILISA RAY	11	12	13	14	15	16	17	18		
58	1701289138	ASHUTOSH PADHI	10	11	12	13	14	15	16	17		
59	1701289148	DINESH SAHOO	X	11	12	13	14	15	16	17		
60	1701289149	SUSHREE MOHANTY	11	12	13	14	15	16	17	18		
61	1701289157	DIBYASHREE MOHANTY	11	X	12	13	14	15	16	17		
62	1701289161	SIPRA JENA	10	11	12	X	13	14	15	16		
63	1701289184	PRATIKSHA BARIK	11	12	13	14	15	16	17	18		
64	1701289191	MRINMOY KUMAR	11	X	12	13	14	15	16	17		
65	1701289203	GAYATRY PANDA	10	11	12	13	X	14	15	16		
66	1701289209	ABHIJEET MAHARANA	11	12	13	14	15	16	17	18		
67	1701289210	KUMAR SURJYAM	11	X	12	13	14	15	16	17		
68	1701289217	GAYATREE PATNAIK	11	12	13	14	15	16	17	18		
69	1701289220	OMM PRASAD SAHOO	10	12	13	13	14	15	16	17		
70	1701289221	TULIKA KUMARI	10	11	X	12	13	14	15	16		
71	1701289223	RITESH KUMAR PANDA	11	12	13	X	14	15	16	17		
72	1701289226	BISWAJIT BEHERA	11	12	13	14	15	16	17	18		
73	1701289227	ANKIT MOHAPATRA	11	12	13	14	15	16	17	17		
74	1701289231	PUNYA SANGEET DHAL	11	12	13	14	15	16	17	17		
75	1701289232	SASMITA SAHOO	11	12	13	14	X	15	16	17		
76	1701289234	JANNAT KUMAR PRADHAN	9	10	11	12	13	14	15	16		
77	1701289235	RADHAGOBINDA MEHER	11	12	13	14	15	16	17	18		
78	1701289237	HAREKRUSHNA LENKA	11	12	13	14	15	16	17	18		
79	1701289238	RAMA CHANDRA PANDA	11	12	13	14	15	16	17	18		
80	1701289246	NITYANANDA BISWAL	X	11	12	X	13	14	15	16		

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81	1701289250	NADIP KUMAR JENA	10	11	12	13	14	15	16	17		
82	1701289252	YASISH GAUCHAN	11	12	13	14	15	16	17	18		
83	1701289261	SHAILJA SINHA	11	12	13	14	X	15	16	17		
84	1701289265	S BIGHNESH KUMAR	11	X	12	13	14	15	16	17		
85	1701289270	SATYABRATA JENA	11	12	13	14	15	16	17	18		
86	1701289274	SUBHASHREE MALLA	X	11	12	13	14	15	16	17		
87	1701289277	ANANYA ANINDITA	10	11	12	13	14	15	16	17		
88	1701289281	PRIYA PRIYADARSINI SWAIN	10	11	12	13	X	14	15	16		
89	1701289282	CHINMAYEE DASH	11	12	13	14	15	16	17	18		
90	1701289283	ARPITA SWAIN	11	12	13	14	15	16	17	18		

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Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 22.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 21.09.2020, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 30.09.2020. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

PCheenel

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 50hrs
Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [13 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [13 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [12periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly

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- Working with large datasets
- Case study: Data analysis of real-world data

Module-IV: Advanced Python Topics [12periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.

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- **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).
- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

PChand

Padmabati Chand
(Course Instructor)

PChand

(HOD,CSE)

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SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	30.09.2020	3:00 PM - 6:00 PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	01.10.2020	3:00 PM - 6:00 PM	Data types, variables, operators, and control structures (loops and conditionals)
3	03.10.2020	3:00 PM - 6:00 PM	Functions, modules, packages, debugging techniques, and exception handling
4	04.10.2020	3:00 PM - 6:00 PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	05.10.2020	3:00 PM - 6:00 PM	Stacks, Queues, Linked Lists, and their applications
6	06.10.2020	3:00 PM - 6:00 PM	Sorting and searching algorithms, time and space complexity analysis
7	07.10.2020	3:00 PM - 6:00 PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	08.10.2020	3:00 PM - 6:00 PM	Data visualization with Matplotlib
9	09.10.2020	3:00 PM - 6:00 PM	Working with large datasets and a case study on real-world data analysis
10	10.10.2020	3:00 PM - 6:00 PM	OOP concepts in Python
11	12.10.2020	3:00 PM - 6:00 PM	Web scraping with Beautiful Soup and Requests
12	13.10.2020	3:00 PM - 6:00 PM	File handling, and regular expressions
13	14.10.2020	3:00 PM - 6:00 PM	Multi-threading, multiprocessing
14	15.10.2020	3:00 PM - 6:00 PM	Introduction to machine learning with Python
15	16.10.2020	3:00 PM - 6:00 PM	Multi-threading, multiprocessing
16	17.10.2020	4:00 PM - 6:00 PM	Introduction to machine learning with Python
17	19.10.2020	4:00 PM - 6:00 PM	File handling, and regular expressions
18	20.10.2020	5:00PM-6:00PM	Assessment

PChand

Padmabati Chand
(Course Instructor)

PChand

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-23/09/2020

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 30.09. 2020. All interested students are required to register on or before 28.09.2020.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Partha Sarthi Mohapatra

Registration Contact: Partha Sarthi Mohapatra

Principal 23/9/20

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 29.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 30.09.2020 and a total of 44 Students have enrolled for this course. This is for your kind information.

PChand

Padmabati Chand
(Course Instructor)

PChand

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:20.10.2020

PYTHON
ASSESSMENT

Name Of the Student: Shubee-tulasi Mohanty
Regd No: 1701289189

8/10

All Questions Compulsory

Q1: What is the correct extension of Python files?
A) .py B) .java C) .txt D) .exe

Q2: Which of the following is an immutable data type in Python?
A) List B) Dictionary C) Tuple D) Set

Q3: What is the default return value of a function that does not return anything explicitly?
A) 0 B) None C) False D) Empty string

Q4: Which of the following is a mutable data type in Python?
A) Tuple B) String C) List D) Integer

Q5: Which of the following data structures follows the LIFO principle?
A) Queue B) Stack C) Dictionary D) Set

Q6: Which function is used to remove whitespace from a string?
A) strip()
B) remove()
C) delete()
D) clean()

Q7: Which Python library is used for numerical computations?
A) Pandas B) NumPy
C) Matplotlib D) Seaborn

Q8: What is the time complexity of searching an element in a hash table?
A) O(n) B) O(1)
C) O(log n) D) O(n log n)

Q9: Which keyword is used for handling exceptions in Python?
A) error B) try
C) except D) Both B and C

Q10: Which function is used to display a plot in Matplotlib?
A) show()
B) display()
C) draw()
D) plot()

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Padmabati Chand **Month/Year:** 09/2020

Subject Code: **Branch:**

Subject: Mathy Python

Sl. No	REGD NO	NAME	30/09	01/10	03/10	04/10	05/10	06/10	07/10	08/10	09/10	10/10
1	1701289049	AKASHDEEP SAHOO	1	2	3	4	5	X	6	7	8	9
2	1701289052	BIKRAM BARIK	1	2	3	X	4	5	6	7	8	9
3	1701289061	SWAYANSHU SAHOO	1	2	3	4	5	6	7	8	9	10
4	1701289071	TOPTEN NAYAK	1	2	X	3	4	5	6	7	8	9
5	1701289080	H R SOUMYARANJAN PRADHAN	1	2	3	4	5	6	7	8	9	X
6	1701289085	BISWAJIT RATH	1	X	2	3	4	5	6	7	8	9
7	1701289106	SANDEEP KUMAR DASH	1	2	3	4	5	6	7	8	X	9
8	1701289115	SATYABRATA SHARMA	1	2	3	4	5	6	7	8	X	9
9	1701289134	ASWINI KUMAR ROUT	1	2	3	4	5	6	7	8	X	9
10	1701289154	SUBRATA SAHOO	1	2	3	4	5	X	6	7	8	9
11	1701289170	SIDHARTHA BRAHMA	1	X	2	3	4	5	6	7	8	9
12	1701289172	BISWAPRAKASH PANDA	X	2	2	3	4	5	6	7	8	9
13	1701289177	CHANDAN NAYAK	1	2	3	4	5	6	7	X	8	9
14	1701289188	SWAYANSU SOUMYARANJAN BARIK	1	2	3	4	5	6	7	8	9	10
15	1701289189	STUTEE TULASI MOHANTY	1	2	3	4	5	6	7	8	9	10
16	1701289199	BHABANI SHANKAR MOHANTY	1	2	3	4	5	6	7	8	9	10
17	1701289201	AMRITRAJ DAS	1	2	3	4	X	5	6	7	8	9
18	1701289204	KRUSHNA CHANDRA BHOI	1	2	3	4	5	6	7	8	9	10
19	1701289208	SAURAV MISHRA	1	2	X	3	4	5	6	7	8	9
20	1701289211	PRAVANJAN RAY	X	1	2	3	4	5	6	7	8	9
21	1701289212	SUBHABRATA SAHOO	1	2	3	4	5	6	7	8	9	10
22	1701289214	AVILASH AICH	1	2	3	4	5	6	7	8	9	10
23	1701289218	LOKESH KUMAR	1	2	3	4	5	6	7	8	9	10
24	1701289219	SANGRAM KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
25	1701289224	PURNENDU SHEKHAR SAHOO	1	2	3	4	5	X	6	7	8	X
26	1701289228	NIKHIL AGRAWAL	1	2	3	4	5	6	7	8	9	10
27	1701289236	RITISH RANJAN PATRA	1	2	3	4	5	6	7	8	9	X
28	1701289284	JANHABI SAMAL	1	2	X	3	4	5	6	7	8	9
29	1701289291	ASISH KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10
30	1701289294	ANKIT KUMAR	X	1	2	3	4	5	6	7	8	9
35	1701289295	ANSHUMAN PRIYADARSHI	1	2	3	4	5	6	7	8	9	10
36	1701289296	ARPITA PRIYADARSHINEE	1	2	3	4	5	6	7	8	9	10

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37	1701289319	ARQAM FARHAN	1	2	3	4	5	6	7	8	9	10
38	1701289320	BIBEKANANDA MAHALIK	1	2	x	3	4	5	6	7	8	9
39	1701289321	BIBHU PRASAD DALAI	1	2	3	4	5	6	7	8	9	10
40	1701289322	BIJETA PRADHAN	1	2	x	3	4	5	6	7	8	9
41	1701289323	BISHAL BHUSAN HARICHANDAN	x	1	2	3	4	5	6	7	8	9
42	1701289324	BISHAL SWAIN	1	2	3	4	5	6	7	8	9	10
43	1701289325	CHINMAY SAHOO	1	2	3	4	5	6	x	7	x	8
44	1701289326	JAGAN MOHAN KHATUA	1	2	3	4	5	6	7	8	9	10

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Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Padmnabati Chand **Month/Year:** 09/2020

Subject Code: **Branch:**

Subject: Mastering Python

Sl. No	REGD NO	NAME	12/10	13/10	14/10	15/10	16/10	17/10	19/10	20/10		
1	1701289049	AKASHDEEP SAHOO	10	X	11	12	13	14	15	16		
2	1701289052	BIKRAM BARIK	10	11	12	X	13	14	15	16		
3	1701289061	SWAYANSHU SAHOO	11	12	13	14	15	16	17	18		
4	1701289071	TOPTEN NAYAK	10	11	12	13	14	15	16	17		
5	1701289080	H R SOUMYARANJAN PRADHAN	10	X	11	12	13	14	15	16		
6	1701289085	BISWAJIT RATH	10	11	12	13	X	14	15	16		
7	1701289106	SANDEEP KUMAR DASH	10	11	12	13	14	15	16	17		
8	1701289115	SATYABRATA SHARMA	10	11	X	12	13	14	15	16		
9	1701289134	ASWINI KUMAR ROUT	10	11	12	13	14	15	16	17		
10	1701289154	SUBRATA SAHOO	10	11	12	13	14	15	16	17		
11	1701289170	SIDHARTHA BRAHMA	10	11	12	13	14	15	16	17		
12	1701289172	BISWAPRAKASH PANDA	10	11	12	13	14	15	16	17		
13	1701289177	CHANDAN NAYAK	10	X	11	12	13	14	15	16		
14	1701289188	SWAYANSU SOUMYARANJAN BARIK	11	12	13	14	15	16	17	X		
15	1701289189	STUTEE TULASI MOHANTY	11	12	13	14	15	16	17	18		
16	1701289199	BHABANI SHANKAR MOHANTY	11	X	12	13	15	15	16	17		
17	1701289201	AMRITRAJ DAS	10	11	12	13	14	15	16	17		
18	1701289204	KRUSHNA CHANDRA BHOI	11	X	12	13	14	15	16	17		
19	1701289208	SAURAV MISHRA	10	11	12	13	14	15	16	17		
20	1701289211	PRAVANJAN RAY	11	12	13	14	15	16	17	18		
21	1701289212	SUBHABRATA SAHOO	11	12	13	14	15	16	17	18		
22	1701289214	AVILASH AICH	11	12	13	14	15	16	X	17		
23	1701289218	LOKESH KUMAR	11	12	13	14	15	16	17	18		
24	1701289219	SANGRAM KUMAR NAYAK	11	12	13	14	15	16	17	18		
25	1701289224	PURNENDU SHEKHAR SAHOO	9	10	11	12	13	14	15	X		
26	1701289228	NIKHIL AGRAWAL	11	12	13	14	15	16	17	18		
27	1701289236	RITISH RANJAN PATRA	10	11	12	13	14	15	16	17		
28	1701289284	JANHABI SAMAL	10	11	12	13	14	15	16	17		
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30	1701289294	ANKIT KUMAR	10	11	12	13	14	15	16	17		
35	1701289295	ANSHUMAN PRIYADARSHI	11	X	12	13	14	15	16	17		
36	1701289296	ARPITA PRIYADARSHINEE	11	12	13	14	15	16	17	18		

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Bhubaneswar-751024

37	1701289319	ARQAM FARHAN	11	12	13	14	15	16	17	18		
38	1701289320	BIBEKANANDA MAHALIK	10	11	12	X	13	14	15	16		
39	1701289321	BIBHU PRASAD DALAI	11	12	13	14	X	15	16	17		
40	1701289322	BIJETA PRADHAN	10	11	12	13	14	15	16	17		
41	1701289323	BISHAL BHUSAN HARICHANDAN	10	11	12	13	14	15	16	17		
42	1701289324	BISHAL SWAIN	11	12	13	14	15	16	17	X		
43	1701289325	CHINMAY SAHOO	9	10	11	12	13	14	15	16		
44	1701289326	JAGAN MOHAN KHATUA	11	12	13	14	15	16	17	18		

PChoney

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 08.09.2020

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 07.09.2020, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 14.09.2020. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, CSE)

HOD
Computer Science Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 50hrs
Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [13 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [13 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [12periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly

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- Working with large datasets
- Case study: Data analysis of real-world data

Module-IV: Advanced Python Topics [12periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.

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- **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).
- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Rahul Ranjan
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	14/09/2020	3:00 PM - 6:00 PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	15/09/2020	3:00 PM - 6:00 PM	Data types, variables, operators, and control structures (loops and conditionals)
3	17/09/2020	3:00 PM - 6:00 PM	Functions, modules, packages, debugging techniques, and exception handling
4	18/09/2020	3:00 PM - 6:00 PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	19/09/2020	3:00 PM - 6:00 PM	Stacks, Queues, Linked Lists, and their applications
6	21/09/2020	3:00 PM - 6:00 PM	Sorting and searching algorithms, time and space complexity analysis
7	22/09/2020	3:00 PM - 6:00 PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	24/09/2020	3:00 PM - 6:00 PM	Data visualization with Matplotlib
9	25/09/2020	3:00 PM - 6:00 PM	Working with large datasets and a case study on real-world data analysis
10	26/09/2020	3:00 PM - 6:00 PM	OOP concepts in Python
11	28/09/2020	3:00 PM - 6:00 PM	Web scraping with Beautiful Soup and Requests
12	29/09/2020	3:00 PM - 6:00 PM	File handling, and regular expressions
13	01/10/2020	3:00 PM - 6:00 PM	Multi-threading, multiprocessing
14	03/10/2020	3:00 PM - 6:00 PM	Introduction to machine learning with Python
15	05/10/2020	3:00 PM - 6:00 PM	Multi-threading, multiprocessing
16	06/10/2020	4:00 PM - 6:00 PM	Introduction to machine learning with Python
17	07/10/2020	4:00 PM - 6:00 PM	File handling, and regular expressions
18	08/10/2020	5:00PM-6:00PM	Assessment

Rahul Ranjan
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-09/09/2020

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 14.09. 2020. All interested students are required to register on or before 11.09.2020.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Rahul Ranjan

Registration Contact: Rahul Ranjan

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Date: 13.09.2020

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 14.09.2020 and a total of 47 Students have enrolled for this course. This is for your kind information.

Rahul Ranjan
(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:08.10.2020

PYTHON
ASSESSMENT

Name Of the Student: Akash Mandal
Regd No: 1701289413

10/10

All Questions Compulsory

Q1: What is the correct syntax to import a module in Python?
A) include module_name B) import module_name
C) using module_name D) require module_name

Q2: How do you create an empty set in Python?
A) set() B) {} C) [] D) empty()

Q3: Which sorting algorithm has the worst-case time complexity of $O(n^2)$?
A) Merge Sort B) Quick Sort C) Bubble Sort D) Heap Sort

Q4: Which of the following methods is used to read a CSV file in Pandas?
A) read_csv() B) readfile() C) read() D) open_csv()

Q5: Which method is called automatically when an object is created?
A) init() B) start() C) object() D) self()

Q6: Which function is used to fill missing values in a dataset?
A) replace() B) fillna() C) dropna() D) interpolate()

Q7: What is the space complexity of storing an array of size n?
A) O(1) B) O(n) C) O(log n) D) $O(n^2)$

Q8: Which function is used to open a file in Python?
A) read()
B) open()
C) access()
D) file()

Q9: What is the correct way to take user input in Python?
A) input()
B) scan()
C) gets()
D) read()

Q10: What will be the output of print(type(10/2))?
A) int
B) float
C) str
D) complex

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: RAHUL RANJAN **Month/Year:** 9/2019

Subject Code: **Branch:**

Subject: Mastering in Python through Guided Problem Solving

Sl. No	REGD NO	NAME	14/09	15/09	17/09	18/09	19/09	21/09	22/09	24/09	25/09	26/09
1	1701289016	DEEPAK SAHOO	1	2	3	4	5	6	7	8	9	10
2	1701289084	ROSHAN BISWAL	1	2	A	3	4	5	6	7	8	9
3	1701289131	SARFRAZ HUSSAIN	1	2	3	4	5	6	7	8	9	10
4	1701289169	DEVIDUTTA PANIGRAHI	1	2	3	4	5	6	7	8	9	10
5	1701289190	ASHISH KUMAR PARIJA	1	A	2	3	4	5	6	7	8	9
6	1701289195	PRINCE PATRA	1	2	A	3	4	5	6	7	8	9
7	1701289215	ABINASH SWAIN	1	2	3	4	5	6	7	8	9	10
8	1701289233	ANISH KUMAR BARIK	1	2	3	4	5	6	7	8	9	10
9	1701289241	DEBABRATA TARAI	1	A	2	3	4	5	6	A	7	8
10	1701289258	SHUVA SAMBIT SAHU	1	2	3	4	5	6	A	7	8	9
11	1701289269	SUBHAM DHALSAMANTA	1	2	3	4	5	6	7	8	9	10
12	1701289411	ABHAYA KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
13	1701289412	ABHIJEET MOHANTY	1	2	3	4	5	6	7	8	9	10
14	1701289413	AKASH MANDAL	1	2	3	4	5	6	7	8	9	10
15	1701289414	ASHUTOSH MISHRA	A	1	2	3	4	5	6	7	8	9
16	1701289415	ASTARAGA MAHALA	1	2	A	3	4	5	A	A	7	8
17	1701289416	BINAY RAJ KUMAR SAMAL	1	2	3	4	5	6	7	8	9	10
18	1701289417	DEEPAK RAJ MAJHI	1	2	3	4	5	6	7	8	9	10
19	1701289418	GYANENDRA SAHU	1	2	A	3	4	5	6	7	8	9
20	1701289419	LAXMI HEMBROM	1	2	3	4	5	6	7	8	9	10
21	1701289420	MOHAMMED INZAMAM UL HAQUE	1	2	3	4	5	6	7	8	9	10
22	1701289421	PRIYAMJIT MOHAPATRA	1	2	3	4	5	6	A	7	8	9
23	1701289422	SATYARANJAN SAHOO	1	A	2	3	4	5	6	7	8	9
24	1701289423	SOUMYA RANJAN ACHARYA	1	2	3	4	5	6	7	8	9	10
25	1701289424	SWATI SRIKSHETRI PARIDA	1	2	3	4	5	6	7	8	9	10
26	1821289007	ANWESH ANUPAM JENA	1	A	2	3	4	5	A	6	7	8
27	1821289010	BADAL KUMAR JENA	1	2	3	4	5	6	7	8	9	10
28	1821289020	IMAN KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
29	1821289023	JYOTI RANJAN BEHERA	1	2	3	4	5	6	7	8	9	10
30	1821289033	PRIYANKA SWAIN	A	1	2	3	4	5	6	7	8	9
35	1821289036	RAJESH KUMAR SETHI	1	2	3	4	5	6	7	8	9	10
36	1821289041	RUDRA PRASAD SHARMA	1	2	3	4	5	6	7	8	9	10
37	1821289046	SATYAJIT BHUTIA	1	2	3	4	5	6	A	7	8	9
38	1821289049	SOMYA RANJAN SAHOO	1	2	3	4	5	6	7	8	9	10

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39	1821289052	SOUMYARANJAN MISHRA	1	2	A	3	4	5	6	7	8	9
40	1821289053	SRIMAN SATYA SWAROOP	1	2	3	4	5	6	7	8	9	10
41	1821289061	TEJASWINI DAS	1	2	3	4	A	5	6	7	8	9
42	1701289011	DWIBENDU KUMAR MOHAKUD	1	2	3	4	5	6	A	7	8	9
43	1701289013	BISWAJIT BISWAL	1	2	3	4	5	6	7	8	9	10
44	1701289030	T VINAYSAGAR KUMAR	1	2	3	4	5	6	7	8	9	10
45	1701289042	BIBEKANANDA MOHANTY	1	A	2	3	4	5	6	7	8	9
46	1701289047	RAJESH PARIDA	1	2	3	4	5	6	7	8	9	10
47	1701289050	ADITYA NARAYAN BISWAL	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: RAHUL RANJAN **Month/Year:** 9/20

Subject Code: **Branch:**

Subject: Mastering in Python through Guided Problem solving

Sl. No	REGD NO	NAME	28/09	29/09	01/10	03/10	05/10	06/10	07/10	08/10		
1	1701289016	DEEPAK SAHOO	11	A	12	13	14	15	16	17		
2	1701289084	ROSHAN BISWAL	10	11	12	13	14	15	A	16		
3	1701289131	SARFRAZ HUSSAIN	11	A	12	13	14	15	16	17		
4	1701289169	DEVIDUTTA PANIGRAHI	11	12	13	14	15	16	17	18		
5	1701289190	ASHISH KUMAR PARIJA	10	11	12	13	14	15	16	17		
6	1701289195	PRINCE PATRA	10	A	11	12	13	14	15	16		
7	1701289215	ABINASH SWAIN	11	12	A	13	14	15	16	17		
8	1701289233	ANISH KUMAR BARIK	11	12	13	14	A	15	16	17		
9	1701289241	DEBABRATA TARAI	9	10	A	11	12	13	14	15		
10	1701289258	SHUVA SAMBIT SAHU	10	11	12	13	14	15	16	17		
11	1701289269	SUBHAM DHALSAMANTA	11	12	13	14	15	16	A	17		
12	1701289411	ABHAYA KUMAR NAYAK	11	A	12	13	14	15	16	17		
13	1701289412	ABHIJEET MOHANTY	11	12	13	14	15	16	A	17		
14	1701289413	AKASH MANDAL	11	12	13	14	15	16	17	18		
15	1701289414	ASHUTOSH MISHRA	10	11	12	13	14	15	16	17		
16	1701289415	ASTARAGA MAHALA	9	A	10	11	12	13	14	15		
17	1701289416	BINAY RAJ KUMAR SAMAL	11	12	A	13	14	15	16	17		
18	1701289417	DEEPAK RAJ MAJHI	11	12	13	14	15	16	17	18		
19	1701289418	GYANENDRA SAHU	10	11	12	13	14	15	16	17		
20	1701289419	LAXMI HEMBROM	11	12	13	14	15	16	17	18		
21	1701289420	MOHAMMED INZAMAM UL HAQUE	11	12	13	14	15	A	16	17		
22	1701289421	PRIYAMJIT MOHAPATRA	10	11	12	13	A	14	16	17		
23	1701289422	SATYARANJAN SAHOO	10	11	12	13	14	15	18	17		
24	1701289423	SOUMYA RANJAN ACHARYA	11	A	12	13	14	15	16	17		
25	1701289424	SWATI SRIKSHETRI PARIDA	11	12	13	14	15	16	A	17		
26	1821289007	ANWESH ANUPAM JENA	9	10	11	12	13	14	15	16		
27	1821289010	BADAL KUMAR JENA	11	12	A	13	14	15	16	17		
28	1821289020	IMAN KUMAR NAYAK	11	12	13	A	14	15	16	17		
29	1821289023	JYOTI RANJAN BEHERA	11	12	A	13	14	15	16	17		
30	1821289033	PRIYANKA SWAIN	10	11	12	13	14	15	16	17		
35	1821289036	RAJESH KUMAR SETHI	11	12	13	14	15	A	A	16		
36	1821289041	RUDRA PRASAD SHARMA	11	12	13	14	15	16	17	18		
37	1821289046	SATYAJIT BHUTIA	10	A	11	12	13	14	15	16		
38	1821289049	SOMYA RANJAN SAHOO	11	12	13	14	A	15	16	17		

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39	1821289052	SOUMYARANJAN MISHRA	10	11	*	12	13	14	15	16		
40	1821289053	SRIMAN SATYA SWAROOP	11	12	13	14	14	15	16	17		
41	1821289061	TEJASWINI DAS	10	*	11	12	13	14	15	16		
42	1701289011	DWIBENDU KUMAR MOHAKUD	10	11	12	13	14	15	16	17		
43	1701289013	BISWAJIT BISWAL	11	*	12	13	14	15	16	17		
44	1701289030	T VINAYSAGAR KUMAR	11	12	13	14	15	16	17	18		
45	1701289042	BIBEKANANDA MOHANTY	*	10	11	12	13	14	15	16		
46	1701289047	RAJESH PARIDA	11	12	*	13	14	15	15	17		
47	1701289050	ADITYA NARAYAN BISWAL	11	12	13	14	15	16	17	18		

Signature of Teacher

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Date:08.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering Technical Skills through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on dated 07.09.2021, we are planning to start a course on "Mastering Technical Skills through Guided Problem Solving" from 16.09. 2021.The objective of the course is to provide in-depth training on essential technical skills required in industry to our students. The course duration and schedule are attached for your perusal.

Thanking You,

PChand

(HOD, CSE)

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SYLLABUS

Mastering Technical Skills through Guided Problem Solving

Total Lecture Periods:60 hrs

Course Objectives:

This course aims to enhance students' proficiency in critical technical domains through hands-on problem-solving and practical exercises. The course covers essential skills such as programming, data handling, software development, and collaborative project management to prepare students for industry-ready roles.

MODULE-I: Introduction to Technical Skills [18 periods]

- **Topics:** Overview of industry demands, introduction to problem-solving techniques, and tools like IDEs and version control systems (Git).

MODULE-II: Programming Fundamentals [17 periods]

- **Topics:** Core programming concepts, structured programming, debugging practices, and writing optimized code in C/Python/Java.

MODULE-III: Data Handling and Analysis [10 periods]

- **Topics:** Introduction to data structures, databases, and data manipulation techniques using SQL/Excel/Pandas.

MODULE-IV: Industry-Oriented Project [15 periods]

- **Topics:** Real-world problem-solving using technical skills, collaborative team projects, and presentation of solutions.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Identify key technical requirements and apply problem-solving strategies.
CO2: Demonstrate proficiency in programming for solving technical problems.
CO3: Use tools like Git and databases effectively in project development.
CO4: Analyze data for meaningful insights using technical tools.

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CO5: Collaborate and deliver solutions for real-world scenarios.
CO6: Build a foundation for advanced technical certifications or specializations.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. Clean Code: A Handbook of Agile Software Craftsmanship by Robert C. Martin
2. Introduction to Algorithms by Thomas H. Cormen

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)

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SCHEDULE

Mastering Technical Skills through Guided Problem Solving

Sl No	Date	Time	Course Content
1	16.09.2021	3:00PM-6:00PM	Overview of computational tools in engineering: MATLAB, Python, Simulink, and mor
2	17.09.2021	3:00PM-6:00PM	Installation and setup of tools, Basic programming concepts (variables, functions, loops, conditionals)
3	18.09.2021	3:00PM-6:00PM	MATLAB and Python syntax, Problem-solving using simple scripts and functions.
4	20.09.2021	3:00PM-6:00PM	Working with datasets in MATLAB and Python, Data preprocessing, cleaning, and transformation
5	21.09.2021	3:00PM-6:00PM	Plotting and customizing graphs (2D, 3D, interactive plots) using MATLAB and Python
6	22.09.2021	3:00PM-6:00PM	Handling large datasets, Statistical analysis using Matplotlib, Pandas, and NumPy
7	23.09.2021	3:00PM-6:00PM	Numerical integration and differentiation in MATLAB and Python
8	24.09.2021	3:00PM-6:00PM	Solving linear and nonlinear equations, Monte Carlo simulations.
9	25.09.2021	3:00PM-6:00PM	Simulating physical systems and solving engineering problems using computational tools
10	27.09.2021	3:00PM-6:00PM	Introduction to finite element analysis (FEA)

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11	28.09.2021	3:00PM-6:00PM	computational fluid dynamics (CFD) tools.
12	29.09.2021	3:00PM-6:00PM	Signal and image processing techniques using MATLAB
13	30.09.2021	3:00PM-6:00PM	Optimization methods for engineering problems using MATLAB
14	01.10.2021	3:00PM-6:00PM	Optimization methods for engineering problems using Python
15	04.10.2021	3:00PM-6:00PM	System modelling with Simulink
16	05.10.2021	3:00PM-6:00PM	System modeling with , SciPy
17	06.10.2021	3:00PM-6:00PM	System modeling with SymPy
18	07.10.2021	3:00PM-6:00PM	Solving real-world engineering problems using MATLAB
19	08.10.2021	3:00PM-6:00PM	Solving real-world engineering problems using Simulink
20	09.10.2021	4:00PM-6:00PM	Solving real-world engineering problems using Python
21	11.10.2021	5:00PM-6:00PM	Assessment

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:10.09.2021

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Technical Problem Solving with Computational Tools " starting from 16.09.2021. Interested students must register on or before 12.09.2021. The course details are as follows:

- Course name: Mastering Technical Skills through Guided Problem Solving
- Instructor name: Aditya Narayan Das
- Concerned person for Registration: Aditya Narayan Das

Principal

Trident Academy of Technology
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Principal
Trident Academy of Technology
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Copy to:

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(ii) DGMs
(iii)AO
(iv)All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 13.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course " Mastering Technical Skills through Guided Problem Solving ".

Respected Sir,

We are going to start a course on " Mastering Technical Skills through Guided Problem Solving " from 16.09.2021 and a total of 63 Students have enrolled for this course. This is for your kind information.

Aditya Narayan Das
(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes

Date:27.09.2021

MASTERING IN TECHNICAL SKILLS

ASSESSMENT

Name Of the Student: Amit Giri

Regd No: 1801289031

10/10

All Questions Compulsory

Q1: Which of the following tools is used for version control in software development?

A) Eclipse
B) Git
C) PyCharm
D) Visual Studio Code

Q2: Problem-solving techniques in technical skills primarily aim to:

A) Learn new programming languages
B) Optimize hardware performance
C) Break down complex problems into manageable parts
D) Focus on the aesthetics of code

Q3: In programming, which of the following is the main benefit of using structured programming?

A) Reduces the complexity of code
B) Increases the execution time of a program
C) Makes the program look visually appealing
D) Reduces the number of lines of code

Q4: Which of the following is NOT a core programming concept?

A) Variables
B) Loops
C) Debugging
D) Compilation

Q5: What is the primary purpose of debugging in programming?

A) To optimize the program
B) To identify and fix errors in the code
C) To reduce the size of the code
D) To document the code

Q6: Which of the following is a popular tool used for data manipulation and analysis in Python?

A) Pandas
B) MySQL
C) PowerPoint
D) GitHub

Q7: Which of the following SQL commands is used to retrieve data from a database?

A) INSERT
B) SELECT
C) UPDATE
D) DELETE

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Q8: Which of these is an example of a data structure?

A) Variable
B) Function
C) Array
D) Loop

Q9: In an industry-oriented project, what is a key focus when working in a collaborative team?

A) Individual performance
B) Working in isolation
C) Collaborative problem-solving and communication
D) Writing long, complex code

Q10: When presenting solutions to real-world problems in a project, which of the following is most important?

A) Complexity of the code
B) Aesthetic design of the solution
C) Clear communication of the approach and results
D) Use of multiple programming languages

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V Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityranayuly **Month/Year:** Sept 2021

Subject Code: **Branch:**

Subject: Technical skills,

Sl. No	REGD NO	NAME	16/09/21	17/09	18/09	20/09	21/09	22/09	23/09	24/09	25/09	27/09
1	1801289001	ABANISH MUDULI	1	2	3	4	X	5	6	7	8	9
2	1801289002	ABDUL AABID KHAN	1	2	X	3	4	5	X	6	X	7
3	1801289003	ABHIJEET MOHANTY	1	2	3	4	5	6	7	8	X	9
4	1801289010	ABHISHEK KUMAR	1	X	2	3	4	5	6	7	X	8
5	1801289016	ADARSH DHIR	1	2	3	4	5	6	7	8	9	10
6	1801289017	ADITYA ASHUTOSH	1	2	3	4	5	6	7	8	9	10
7	1801289020	AKANKSHA DAS	1	2	3	4	5	6	7	8	9	10
8	1801289021	AKASH KUMAR	1	X	2	3	4	5	6	7	8	9
9	1801289026	AMAN MOHANTY	1	2	3	4	5	6	7	8	9	10
10	1801289027	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
11	1801289031	AMIT GIRI	1	2	3	4	5	6	X	7	8	9
12	1801289033	AMIT KUMAR SINGH	1	2	3	X	4	5	6	7	8	9
13	1801289034	AMITABH TARENIA	1	2	3	X	4	5	6	7	8	9
14	1801289035	AMIYA PALAI	1	2	3	4	5	X	6	7	8	9
15	1801289037	AMLAN KUMAR NANDY	1	2	3	4	5	X	6	7	8	9
16	1801289038	ANANYA DASH	1	2	3	4	5	X	6	7	8	9
17	1801289039	ANANYA PRIYADARSHINI MANTRY	1	2	3	4	5	6	X	7	8	9
18	1801289042	ANIMESH SAHOO	1	2	3	4	5	6	X	7	8	9
19	1801289043	ANJALI KUMARI	1	2	3	4	5	6	7	8	9	10
20	1801289044	ANKIT BHUYAN	1	X	2	3	4	5	6	7	8	9
21	1801289045	ANKITA BHUYAN	1	X	2	3	4	5	6	7	8	9
22	1801289051	ANKITA SINGH	1	2	3	4	5	6	7	8	9	10
23	1801289058	ARCH SATPATHY	1	2	3	4	5	6	7	8	9	10
24	1801289060	ARKASARATHI DAS	1	2	3	4	5	6	7	8	9	10
25	1801289061	ARPIT ABHISHEK MOHANTY	1	2	3	4	5	6	7	8	9	10
26	1801289066	ASHISH KUMAR JENA	1	2	3	4	5	6	7	8	9	10
27	1801289067	ASHISH KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
28	1801289068	ASHISH RANJAN	1	2	3	4	5	X	6	7	8	9
29	1801289069	ASHRIBAD BEHERA	1	2	3	4	5	6	7	8	9	10
30	1801289070	ASHUTOSH JENA	1	2	3	4	5	6	7	8	9	10
31	1801289073	AURPITA SWAIN	1	2	3	4	5	X	6	7	8	9
32	1801289074	AVI KUMAR	1	2	3	4	5	6	7	8	9	10

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Sl. No	REGD NO	NAME	16/09/21	17/09	18/09	20/09	21/09	22/09	23/09	24/09	25/09	27/09
33	1801289075	AYASKANTA BEHERA	1	2	3	4	5	X	6	7	8	10
34	1801289076	AYESHKANT LENKA	1	2	3	4	5	6	7	8	9	10
35	1801289078	AYUSH PANDEY	1	2	3	4	5	6	7	8	9	10
36	1801289079	AYUSH SHARMA	1	X	2	3	4	5	6	7	8	9.
37	1801289082	BAISALI DAS	1	X	X	2	3	4	5	6	7	8
38	1801289085	BHABANI SHANKAR NAYAK	1	2	3	4	5	6	7	8	9	10
39	1801289087	BINIT JAISWAL	1	2	3	4	5	6	7	8	9	X
40	1801289088	BISHAL ACHARYA	1	2	3	4	5	6	7	8	9	X
41	1801289090	BISHAL MALLICK	1	2	3	4	X	5	6	7	X	8
42	1801289091	BISHNU PRASAD PANDA	1	2	3	4	5	6	7	8	9	10
43	1801289096	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
44	1801289098	CHANDRA SHEKHAR JENAMONI	1	2	3	4	5	6	7	8	9	10
45	1801289099	CHANDRAPRAVA MOHANTY	1	2	X	3	4	5	X	X	6	7
46	1801289100	CHINMAYA SAMANTARA	1	2	X	3	4	5	X	6	7	8
47	1801289101	CHIRANJIBEE MOHAPATRA	1	2	X	3	4	5	6	7	8	9
48	1801289102	CHITTA RANJAN BISWAL	1	2	3	4	5	6	7	8	9	10
49	1801289103	DANISH QUAMAR KHAN	X	1	2	3	4	5	6	7	8	9
50	1801289104	DEBABRATA DEHURY	1	2	X	4	5	6	7	8	9	10
51	1801289106	DEBASISH PANDA	1	2	3	4	5	6	7	8	9	10
52	1801289107	DEBASISH SWAIN	X	1	2	3	4	5	6	7	8	9
53	1801289114	DHIRAJ KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
54	1801289115	DIBYA BHARATI DAS	X	1	2	3	4	5	6	7	8	9
55	1801289117	DIBYAPRAKASH PRUSTY	1	2	3	4	5	6	7	8	9	10
56	1801289118	DIBYARANJAN BARIK	1	2	3	4	5	6	7	8	9	10
57	1801289120	DIKSHA PRASAD	1	X	2	3	4	5	6	7	8	9
58	1801289121	DINESH JENA	1	X	2	3	4	5	X	6	7	8
59	1801289123	DIPANSHU ROUTRAY	1	2	3	4	5	6	7	8	9	10
60	1801289125	DURGASISH MISHRA	1	2	3	4	5	6	7	8	9	X
61	1801289128	GANESH SOREN	1	2	3	4	5	6	7	8	9	X
62	1801289129	GAURIPRASAD LENKA	1	2	3	4	5	6	7	8	9	10
63	1801289132	GYANAJIT DAS	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

V Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanarayan Sir **Month/Year:** Sept 2021

Subject Code: **Branch:**

Subject: Technical Skills.

Sl. No	REGD NO	NAME	28/09	29/09	30/09	01/10	04/10	05/10	06/10	07/10	08/10	09/10
1	1801289001	ABANISH MUDULI	10	X	11	12	13	X	14	15	16	17
2	1801289002	ABDUL AABID KHAN	8	9	10	11	12	13	14	15	16	17
3	1801289003	ABHIJEET MOHANTY	10	11	12	13	14	15	16	X	17	18
4	1801289010	ABHISHEK KUMAR	9	10	11	12	13	14	15	X	16	17
5	1801289016	ADARSH DHIR	11	12	13	14	15	16	17	18	19	20
6	1801289017	ADITYA ASHUTOSH	11	12	13	14	15	16	17	18	19	20
7	1801289020	AKANKSHA DAS	11	12	13	14	15	16	17	18	19	20
8	1801289021	AKASH KUMAR	10	11	12	13	14	15	16	17	18	19
9	1801289026	AMAN MOHANTY	11	12	13	14	15	16	17	18	19	20
10	1801289027	AMAN RAJ	11	12	13	14	15	16	17	18	19	20
11	1801289031	AMIT GIRI	10	11	12	13	14	15	16	17	18	19
12	1801289033	AMIT KUMAR SINGH	10	11	12	13	14	15	16	17	18	X
13	1801289034	AMITABH TARENIA	10	X	11	12	13	14	15	16	17	X
14	1801289035	AMIYA PALAI	10	X	11	12	13	14	15	16	17	18
15	1801289037	AMLAN KUMAR NANDY	10	11	12	13	14	15	16	17	18	19
16	1801289038	ANANYA DASH	10	11	12	13	14	15	16	17	18	19
17	1801289039	ANANYA PRIYADARSHINI MANTRY	10	11	12	13	14	15	16	17	18	19
18	1801289042	ANIMESH SAHOO	10	11	12	13	14	15	16	17	18	19
19	1801289043	ANJALI KUMARI	11	12	B	14	X	15	16	17	18	19
20	1801289044	ANKIT BHUYAN	10	11	12	13	X	14	15	16	17	18
21	1801289045	ANKITA BHUYAN	10	11	12	13	14	15	16	17	18	19
22	1801289051	ANKITA SINGH	11	X	12	13	14	15	16	17	18	19
23	1801289058	ARCH SATPATHY	11	12	13	14	15	16	17	18	19	20
24	1801289060	ARKASARATHI DAS	11	12	13	14	15	16	17	18	19	20
25	1801289061	ARPIT ABHISHEK MOHANTY	11	12	13	14	15	16	17	18	19	20
26	1801289066	ASHISH KUMAR JENA	11	12	13	14	15	16	17	18	19	20
27	1801289067	ASHISH KUMAR MOHAPATRA	11	12	X	13	14	15	16	17	X	18
28	1801289068	ASHISH RANJAN	10	11	X	12	13	14	15	X	16	17
29	1801289069	ASHRIBAD BEHERA	11	12	13	14	15	16	17	X	18	19
30	1801289070	ASHUTOSH JENA	11	12	13	14	15	16	17	18	19	20
31	1801289073	AURPITA SWAIN	10	11	12	13	14	15	16	17	X	18
32	1801289074	AVI KUMAR	11	12	13	14	15	16	17	18	19	20

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Sl. No	REGD NO	NAME	28/09	29/09	30/09	01/10	04/10	05/10	06/10	07/10	08/10	09/10
33	1801289075	AYASKANTA BEHERA	11	12	13	X	14	15	16	17	18	19
34	1801289076	AYESHKANT LENKA	11	12	13	14	15	16	17	18	19	20
35	1801289078	AYUSH PANDEY	11	X	12	13	14	15	16	17	18	19
36	1801289079	AYUSH SHARMA	10	11	12	13	14	15	16	17	18	19
37	1801289082	BAISALI DAS	09	10	11	12	13	14	15	16	17	18
38	1801289085	BHABANI SHANKAR NAYAK	11	X	12	13	14	15	16	17	18	19
39	1801289087	BINIT JAISWAL	10	11	12	13	14	15	16	17	18	19
40	1801289088	BISHAL ACHARYA	10	11	12	13	14	15	16	17	18	19
41	1801289090	BISHAL MALLICK	9	10	11	12	X	13	14	15	16	17
42	1801289091	BISHNU PRASAD PANDA	11	X	12	13	X	14	15	16	17	18
43	1801289096	BISWAJIT SAHOO	11	12	13	14	15	16	17	X	18	19
44	1801289098	CHANDRA SHEKHAR JENAMONI	11	12	13	14	15	16	17	X	18	19
45	1801289099	CHANDRAPRAVA MOHANTY	8	9	10	11	12	13	14	15	16	17
46	1801289100	CHINMAYA SAMANTARA	9	10	11	12	13	14	15	16	17	18
47	1801289101	CHIRANJIBEE MOHAPATRA	10	11	12	12	13	14	15	16	17	18
48	1801289102	CHITTA RANJAN BISWAL	11	12	13	13	15	16	17	18	19	X
49	1801289103	DANISH QUAMAR KHAN	10	11	12	13	14	15	16	17	18	19
50	1801289104	DEBABRATA DEHURY	11	X	12	13	14	15	16	17	18	19
51	1801289106	DEBASISH PANDA	11	12	13	14	15	16	17	X	18	19
52	1801289107	DEBASISH SWAIN	10	11	12	13	14	15	16	17	18	19
53	1801289114	DHIRAJ KUMAR SINGH	11	12	13	14	15	16	17	16	19	20
54	1801289115	DIBYA BHARATI DAS	10	11	12	13	14	15	16	17	18	19
55	1801289117	DIBYAPRAKASH PRUSTY	11	12	13	14	15	16	17	18	19	20
56	1801289118	DIBYARANJAN BARIK	11	12	13	14	15	16	17	18	19	20
57	1801289120	DIKSHA PRASAD	10	11	12	13	14	15	16	17	18	19
58	1801289121	DINESH JENA	9	10	11	12	13	14	15	16	17	18
59	1801289123	DIPANSHU ROUTRAY	11	12	X	13	14	15	16	17	18	19
60	1801289125	DURGASISH MISHRA	10	11	X	12	13	14	15	16	17	18
61	1801289128	GANESH SOREN	10	11	12	13	14	15	16	17	18	19
62	1801289129	GAURIPRASAD LENKA	11	X	12	13	14	15	16	X	17	18
63	1801289132	GYANAJIT DAS	11	12	13	14	15	16	17	18	19	20

Signature of Teacher

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V Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanarayan Dey, **Month/Year:** Sept - 2021

Subject Code: **Branch:**

Subject: Technical Skills

Sl. No	REGD NO	NAME	11/10/21									
1	1801289001	ABANISH MUDULI	18									
2	1801289002	ABDUL AABID KHAN	18									
3	1801289003	ABHIJEET MOHANTY	19									
4	1801289010	ABHISHEK KUMAR	18									
5	1801289016	ADARSH DHIR	21									
6	1801289017	ADITYA ASHUTOSH	21									
7	1801289020	AKANKSHA DAS	21									
8	1801289021	AKASH KUMAR	20									
9	1801289026	AMAN MOHANTY	21									
10	1801289027	AMAN RAJ	21									
11	1801289031	AMIT GIRI	20									
12	1801289033	AMIT KUMAR SINGH	19									
13	1801289034	AMITABH TARENIA	18									
14	1801289035	AMIYA PALAI	19									
15	1801289037	AMLAN KUMAR NANDY	20									
16	1801289038	ANANYA DASH	20									
17	1801289039	ANANYA PRIYADARSHINI MANTRY	20									
18	1801289042	ANIMESH SAHOO	20									
19	1801289043	ANJALI KUMARI	20									
20	1801289044	ANKIT BHUYAN	X									
21	1801289045	ANKITA BHUYAN	X									
22	1801289051	ANKITA SINGH	X									
23	1801289058	ARCH SATPATHY	21									
24	1801289060	ARKASARATHI DAS	219									
25	1801289061	ARPIT ABHISHEK MOHANTY	21									
26	1801289066	ASHISH KUMAR JENA	21									
27	1801289067	ASHISH KUMAR MOHAPATRA	19									
28	1801289068	ASHISH RANJAN	18									
29	1801289069	ASHRIBAD BEHERA	20									
30	1801289070	ASHUTOSH JENA	21									
31	1801289073	AURPITA SWAIN	19									
32	1801289074	AVI KUMAR	21									

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Sl. No	REGD NO	NAME	11 / 10 / 21										
33	1801289075	AYASKANTA BEHERA	20										
34	1801289076	AYESHKANT LENKA	21										
35	1801289078	AYUSH PANDEY	20										
36	1801289079	AYUSH SHARMA	20										
37	1801289082	BAISALI DAS	19										
38	1801289085	BHABANI SHANKAR NAYAK	20										
39	1801289087	BINIT JAISWAL	20										
40	1801289088	BISHAL ACHARYA	20										
41	1801289090	BISHAL MALLICK	18										
42	1801289091	BISHNU PRASAD PANDA	19										
43	1801289096	BISWAJIT SAHOO	20										
44	1801289098	CHANDRA SHEKHAR JENAMONI	20										
45	1801289099	CHANDRAPRAVA MOHANTY	18										
46	1801289100	CHINMAYA SAMANTARA	19										
47	1801289101	CHIRANJIBEE MOHAPATRA	X										
48	1801289102	CHITTA RANJAN BISWAL	X										
49	1801289103	DANISH QUAMAR KHAN	20										
50	1801289104	DEBABRATA DEHURY	20										
51	1801289106	DEBASISH PANDA	20										
52	1801289107	DEBASISH SWAIN	20										
53	1801289114	DHIRAJ KUMAR SINGH	21										
54	1801289115	DIBYA BHARATI DAS	20										
55	1801289117	DIBYAPRAKASH PRUSTY	21										
56	1801289118	DIBYARANJAN BARIK	21										
57	1801289120	DIKSHA PRASAD	20										
58	1801289121	DINESH JENA	19										
59	1801289123	DIPANSHU ROUTRAY	20										
60	1801289125	DURGASISH MISHRA	19										
61	1801289128	GANESH SOREN	20										
62	1801289129	GAURIPRASAD LENKA	19										
63	1801289132	GYANAJIT DAS	21										

Signature of Teacher

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Bhubaneswar-751024

Date:12.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Mastering in Advance Java Programming" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 16.09.2019, we are planning to start an add-on course on "Mastering in Advance Java Programming" from 27.09.2019 for our B. Tech students. The objective of this course is to provide a strong foundation in Java for our students with the necessary skills to develop real-world applications. The course duration and schedule are attached for your approval.

Thanking You,

(HOD, CSE)

HOD
Computer Science Engg.

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Bhubaneswar-751024

SYLLABUS

Mastering in Advance Java Programming

Total Lecture Periods: 30 hrs

Course Objectives:

This course is designed to provide students with a comprehensive understanding of the Java programming language, covering both basic and advanced concepts. Students will gain hands-on experience in Java development, preparing them for industry-level programming tasks and enhancing their problem-solving abilities. The course will also prepare students for coding interviews, competitive exams, and software development roles.

MODULES

Module-I: Introduction to Java Programming [8 periods]

- Overview of Java and its features
- Setting up the Java development environment (JDK, IDEs)
- Basic syntax, variables, data types, and operators
- Control structures (if-else, switch, loops)
- Functions and methods
- Object-Oriented Programming (OOP) basics: Classes, Objects, and Methods

Module-II: Advanced Java Concepts [8 periods]

- Object-Oriented Programming (OOP) Concepts: Inheritance, Polymorphism, Encapsulation, and Abstraction
- Exception Handling: Try-Catch, Finally, Throw, and Throws
- Java Collections Framework: List, Set, Map, Queue, etc.
- Generics and Iterators
- Multi-threading and Concurrency

Module-III: Java GUI and File I/O [6 periods]

- Introduction to Java Swing for GUI development
- Event handling and GUI components (Buttons, Text Fields, Panels, etc.)
- File I/O (Input/Output streams, File Reader, File Writer)
- Serialization in Java

Module-IV: Database Connectivity and Advanced Topics [8 periods]

- Introduction to JDBC (Java Database Connectivity)
- Connecting Java applications with databases (MySQL/PostgreSQL)

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- CRUD operations using JDBC
- Lambda expressions and Streams API in Java 8
- Introduction to Java Frameworks (Spring, Hibernate)
- Basic Introduction to Java-based Web Development (Servlets, JSP)

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Write Java programs using object-oriented principles.
- **CO2**: Understand and apply advanced Java concepts like multi-threading, exception handling, and database connectivity.
- **CO3**: Develop graphical user interfaces (GUIs) using Java Swing.
- **CO4**: Connect Java applications with relational databases using JDBC.
- **CO5**: Solve real-world programming problems using Java's advanced features (e.g., streams, lambdas, etc.).
- **CO6**: Work on projects involving Java and integrate external libraries and frameworks.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificate will be awarded to students who successfully complete the course and assessment.

Suggested Learning Resources

- **Books**:
    1. "Head First Java" by Kathy Sierra and Bert Bates
    2. "Effective Java" by Joshua Bloch

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering in Advance Java Programming

Sl No	Date	Time	Course Content
1	27.09.2021	3:00PM-6:00PM	Overview of Java and its features
2	28.09. 2021	3:00PM-6:00PM	Basic syntax, variables, data types, and operators, Control structures (if-else, switch, loops)
3	30.09. 2021	3:00PM-6:00PM	Functions and methods, Classes, Objects, and Methods
4	01.10. 2021	3:00PM-6:00PM	Inheritance, Polymorphism, Encapsulation, and Abstraction
5	04.10. 2021	3:00PM-6:00PM	Try-Catch, Finally, Throw, and Throws, Java Collections Framework (List, Set, Map, Queue)
6	05.10. 2021	3:00PM-6:00PM	Generics, Iterators, Multi-threading, and Concurrency
7	07.10. 2021	3:00PM-6:00PM	Java Swing for GUI, Event handling, GUI components (Buttons, Text Fields, Panels, etc.)
8	08.10. 2021	3:00PM-6:00PM	Input/Output streams, File Reader
9	09.10. 2021	3:00PM-6:00PM	Basics of JDBC, Connecting Java applications to databases
10	11.10. 2021	4:00PM-6:00PM	Lambda expressions, Streams API, I
11	12.10. 2021	5:00PM-6:00PM	Assessment

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:14.09.2021

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Mastering Java Programming" starting from 27.09.2021. Interested students must register on or before 20.09.2021. The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Sasmita Mishra
- Registration Contact:9247920252

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 21.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering in Advance Java Programming".

Respected Sir,

We are going to start a course on " Mastering in Advance Java Programming " from 27.09.2021 and a total of 62 Students have enrolled for this course. This is for your kind information.

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:12.10.2021

ADVANCE JAVA

ASSESSMENT

10/10

Name Of the Student: Aman Raj
Regd No: 1801289023

All Questions Compulsory

Q1: Which of the following best describes encapsulation in Java?

A) Hiding the implementation details and exposing only the necessary parts

B) Allowing multiple classes to inherit from a single class

C) Enforcing a class to implement all methods of an interface

D) Using static methods instead of instance methods

Q2: Which design pattern ensures that a class has only one instance and provides a global access point to it?

A) Factory pattern B) Singleton pattern

C) Observer pattern D) Prototype pattern

Q3: Which keyword is used to handle exceptions in Java?

A) Throws B) Throw

C) Try-catch D) Error

Q4: Which of the following is not a part of the Java Collections Framework?

A) HashMap B) Array List

C) LinkedList D) Scanner

Q5: In Java multithreading, which method is used to start a new thread?

A) run() B) execute()

C) start() D) init()

Q6: Which Java concurrency utility provides a thread pool mechanism?

A) Semaphore B) Executor framework

C) Locks D) Synchronized block

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Bhubaneswar-751024

Q7: Which of the following statements is true about Hibernate?

A) Hibernate is a Java GUI framework

B) Hibernate is used to connect Java applications with databases using object-relational mapping (ORM)

C) Hibernate replaces JDBC completely

D) Hibernate does not support CRUD operations

Q8: Which component of Spring is responsible for dependency injection?

A) Spring MVC B) Spring Boot

C) Spring Core D) Spring Security

Q9: In JDBC, which type of statement is recommended for preventing SQL injection attacks?

A) Statement B) Callable Statement

C) Prepared Statement D) Normal SQL queries

Q10: What is the purpose of servlets in Java web applications?

A) To handle client-side scripting

B) To process HTTP requests and generate dynamic web content

C) To manage multithreading in web applications

D) To provide a database connection

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: SASMITA MISHRA **Month/Year:** 10/2021

Subject Code: **Branch:**

Subject: Advance Java Programming

Sl. No	REGD NO	NAME	27/09	28/09	30/09	01/10	04/10	05/10	07/10	08/10	09/10	11/10
1	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	X	4	5	6	7	8	9
2	1801289028	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
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23	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
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25	1801289297	SOMANATH SAMAL	1	2	3	4	5	6	7	8	9	10
26	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	X	7	8	9
27	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8	9	10
28	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	10
29	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	X	8	9

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31	1801289023	AKSHITA	1	2	3	X	4	5	6	7	8	9
32	1801289025	AMAN KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
33	1801289050	ANKITA ROUT	1	2	3	4	5	6	7	8	9	10
34	1801289054	ANUBHAB PATTANAYAK	1	2	3	4	5	6	7	8	9	10
35	1801289057	APRAJEETA SINGH	1	2	3	4	5	6	7	8	X	9
36	1801289080	B BASUDEB PATRO	1	2	3	4	5	6	7	8	9	10
37	1801289105	DEBAJYOTI DAS	1	2	3	4	X	5	7	8	X	9
38	1801289109	DEBJYOTI BISWAL	1	2	3	4	5	6	7	8	9	10
39	1801289111	DEEPAK KUMAR NAYAK	1	X	2	3	4	5	X	6	7	8
40	1801289113	DHARANIDHAR SAHOO	1	2	3	4	5	6	7	8	9	10
41	1801289116	DIBYA RANJAN BEHERA	1	2	3	4	5	6	7	8	9	10
42	1801289119	DIBYASMITA SWAIN	1	2	3	X	4	5	6	7	8	9
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46	1801289169	MANISH BHAGYASAGAR	1	2	3	4	5	6	7	8	9	10
47	1801289176	MINAL KUMARI MUKHI	1	2	3	4	5	6	7	8	9	10
48	1801289184	MRITUNJAY KUMAR PRASAD	1	2	3	4	X	5	6	7	8	9
49	1801289188	NIKHIL KUMAR	1	2	3	X	5	6	7	8	9	10
50	1801289193	NITISH AGRAWAL	1	2	3	4	5	6	7	8	9	10
51	1801289204	PRADYUMNA KUMAR MOHAPATRA	1	X	2	3	4	5	6	7	8	9
52	1801289229	RAJASHREE PRAHARAJ	1	2	X	3	4	5	6	7	8	9
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55	1801289248	S TUSHAR	1	2	3	4	5	6	7	8	9	10
56	1801289249	SAGAR PATRA	1	2	X	3	4	5	6	7	8	9
57	1801289252	SAI SUBHASHREE	1	2	3	4	5	6	7	8	9	10
58	1801289261	SARBAJEET SINGH	1	2	3	4	5	6	7	8	9	10
59	1801289279	SHREYA BHARTI	1	2	3	4	5	X	6	7	8	9
60	1801289287	SIDHARTHA ACHARYA	1	2	3	4	5	6	7	8	9	10
61	1801289289	SIMRITA MISHRA	1	2	X	3	4	5	6	7	8	9
62	1801289296	SOFIA PANDA	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Attendance Sheet

Name of the Teacher: SMSMITA MISHRA **Month/Year:** 10/2021

Subject Code: **Branch:**

Subject: Advance Java Programming

Sl. No	REGD NO	NAME	12/10									
1	1801289004	ABHIJIT PRIYADARSHI PARIDA	10									
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62	1801289296	SOFIA PANDA	11								

Signature of Teacher

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Principal
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Bhubaneswar-751024

Date: 17.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 16.09.2021, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 27.09.2021. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

P Chand

(HOD, CSE)

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SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 30hrs

Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [8 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [8 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [8 periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly
- Working with large datasets
- Case study: Data analysis of real-world data

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Module-IV: Advanced Python Topics [6 periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.
    - **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).

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- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

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SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	27/09/2021	3:00PM-6:00PM	Sorting and searching algorithms, time and space complexity analysis
2	28/09/2021	3:00PM-6:00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
3	29/09/2021	3:00PM-6:00PM	Data visualization with Matplotlib, Seaborn, and interactive plots using Plotly
4	30/09/2021	3:00PM-6:00PM	Working with large datasets and a case study on real-world data analysis
5	01/10/2021	3:00PM-6:00PM	OOP concepts in Python
6	04/10/2021	3:00PM-6:00PM	Case study on real-world data analysis
7	05/10/2021	3:00PM-6:00PM	Classes, Objects, and Methods
8	06/10/2021	3:00PM-6:00PM	Web scraping with Beautiful Soup and Requests
9	07/10/2021	3:00PM-6:00PM	File handling, and regular expressions
10	08/10/2021	4:00PM-6:00PM	Multi-threading, multiprocessing
11	09/10/2021	5:00PM-6:00PM	Assessment

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

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Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-18.09.2021

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 27.09. 2021.All interested students are required to register on or before 25.09.2021.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Sasmita Mishra

Registration Contact: Sasmita Mishra

Principal 18/9/21

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 26.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 27.09.2021 and a total of 62 Students have enrolled for this course. This is for your kind information.

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

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Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:09.10.2021

PYTHON
ASSESSMENT

Name Of the Student: Animesh Das
Regd No: L80/23 9041

All Questions Compulsory

Q1: Which of the following is the correct way to declare a variable in Python?
A) int x = 10
B) x = 10
C) x = 10
D) variable x = 10

Q2: Which data type is mutable in Python?
A) Tuple
B) String
C) List
D) Integer

Q3: What is the output of the following code snippet?

```
print (2 ** 3)
```

A) 6
B) 8
C) 9
D) 16

Q4: Which loop is used when the number of iterations is not known in advance?
A) For loop
B) While loop
C) Do-while loop
D) If-else loop

Q5: Which of the following is a correct way to handle exceptions in Python?
A) try-except
B) try-catch
C) exception handling
D) error handling

Q6: What is the time complexity of the binary search algorithm?
A) O(n)
B) O(log n)
C) $O(n^2)$
D) O(1)

Q7: Which Python library is primarily used for data manipulation?
A) Matplotlib
B) Seaborn
C) Pandas
D) TensorFlow

Q8: Which of the following methods is used to read a CSV file into a Pandas DataFrame?
A) pandas. read_csv()
B) pandas.load_csv()
C) pandas.open_csv()
D) pandas.import_csv()

Q9: Which module in Python is commonly used for web scraping?
A) NumPy
B) Requests
C) Beautiful Soup
D) TensorFlow

Q10: What is the purpose of the `with` statement in file handling?
A) To handle exceptions automatically
B) To open and close files automatically
C) To define a loop structure
D) To declare a variable

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Attendance Sheet

Name of the Teacher: SASMITA MISHRA **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: Mastering Python through Guided Problem Solving

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23	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
24	1801289275	SHIV SUNDAR JENA	1	2	3	4	5	6	7	8	9	10
25	1801289297	SOMANATH SAMAL	1	X	2	3	4	5	6	7	8	X
26	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	X
27	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8	9	X
28	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	10
29	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	8	9	10

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Sl. No	REGD NO	NAME	27/09/21	28/09	29/09	30/09	01/10	04/10	05/10	06/10	07/10	08/10
30	1921289080	TARUN KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
31	1921289062	ABHISEK JENA	1	2	3	4	X	5	6	7	8	9
32	1921289063	ABHISHEK PARIDA	1	2	3	4	X	5	6	7	8	9
33	1921289064	AMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
34	1921289065	ANMOL MISHRA	1	2	3	4	5	6	7	8	9	10
35	1921289066	CHIRANJIV RAY	1	X	2	3	4	5	6	7	8	9
36	1921289067	JNANANANDA SARANGI	1	2	3	4	5	6	7	8	9	10
37	1921289068	JYOTI DANIEL SAHU	1	2	X	3	4	5	6	7	8	9
38	1921289069	KISHAN SINGH	1	2	3	4	5	6	7	8	9	10
39	1921289070	NILESH KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
40	1921289071	NITESH KUMAR	1	2	3	X	4	5	6	7	X	8
41	1921289072	PRAKASH RANJAN NAYAK	1	2	3	4	5	6	7	8	X	9
42	1921289073	RAKESH SASMAL	1	2	3	4	5	6	7	8	X	9
43	1921289074	RASMI RANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
44	1921289075	SANJAYA KUMAR SAHU	1	2	3	4	5	6	7	8	9	10
45	1921289076	SIDHARTH BEHERA	1	2	3	4	5	6	7	8	9	10
46	1921289077	SOURAJIT PATRA	1	2	3	4	5	6	7	8	9	10
47	1921289078	SOUVIC ROY	1	2	3	4	5	6	7	8	9	10
48	1921289079	SUMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
49	1801289007	ABHISEK NAYAK	1	2	3	4	5	6	7	8	9	10
50	1801289008	AKSHAT SIDHARTH	1	2	3	4	5	6	7	8	9	10
51	1801289022	AMAN AKASH	X	1	2	3	4	5	6	7	8	9
52	1801289024	AMARESH SAMANTARAY	1	2	3	4	5	6	7	8	9	10
53	1801289029	ARYA KUMAR	1	2	3	4	5	6	7	8	9	10
54	1801289065	ANSHUMAN SWAIN	X	1	2	3	4	5	6	7	8	9
55	1801289071	ASHUTOSH PRASAD	1	2	3	4	5	6	7	8	9	10
56	1801289081	B SRAVAN KUMAR	1	2	3	4	5	6	7	8	9	10
57	1801289112	DEEPAK KUMAR SAHU	1	2	3	4	5	X	X	6	7	8
58	1801289181	MOHAMMED EHTESHAM	1	2	3	4	X	5	6	7	8	9
59	1801289244	RUDRA PRASAD NAYAK	X	1	2	3	X	4	5	6	7	8
60	1801289283	SHUBHAM KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
61	1801289327	SUDIP SAHU	1	2	X	3	4	5	6	X	7	8
62	1801289332	SUPRAVA PARIDA	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: SMSMITA MISHRA **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: Mastering Python through Guided Problem Solving.

Sl. No	REGD NO	NAME	09/10										
1	1801289004	ABHIJIT PRIYADARSHI PARIDA	10										
2	1801289028	AMAN RAJ	10										
3	1801289032	AMIT KUMAR MISHRA	10										
4	1801289041	ANIMES DAS	11										
5	1801289072	ATUL KUMAR	11										
6	1801289086	BIKASH KUMAR PATI	11										
7	1801289095	BISWAJIT SAHOO	11										
8	1801289097	BISWOZEET SAHOO	11										
9	1801289130	GIRIJA SANKAR DEO	11										
10	1801289131	GOURAV SONWANEY	11										
11	1801289133	HARAPRASAD HEMBRAM	10										
12	1801289144	JEEBAN CHANDIPRASAD SAMAL	9										
13	1801289157	KULDEEP SAHA	9										
14	1801289166	MANAS RANJAN ROUT	10										
15	1801289170	MANISH SINHA	11										
16	1801289172	MD FAHAD	11										
17	1801289173	MD YOUSUF REHAN	11										
18	1801289208	PRASANT KUMAR SWAIN	10										
19	1801289215	PRAVASH KUMAR DAS	11										
20	1801289217	PRITAM JENA	11										
21	1801289225	RAHUL KUMAR SHAW	10										
22	1801289250	SAI GOURAV PATRA	11										
23	1801289260	SANTU MANDAL	11										
24	1801289275	SHIV SUNDAR JENA	11										
25	1801289297	SOMANATH SAMAL	X										
26	1801289306	SOUMYARANJAN SAHOO	X										
27	1801289320	SUBHENDU MUDULI	10										
28	1801289335	SURAJ KUMAR RAM	X										
29	1801289355	TARA PRASAD MAHAPATRA	11										

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Sl. No	REGD NO	NAME	09/10									
30	1921289080	TARUN KUMAR SWAIN	11									
31	1921289062	ABHISEK JENA	10									
32	1921289063	ABHISHEK PARIDA	10									
33	1921289064	AMIT KUMAR PANDA	11									
34	1921289065	ANMOL MISHRA	11									
35	1921289066	CHIRANJIV RAY	10									
36	1921289067	JNANANANDA SARANGI	11									
37	1921289068	JYOTI DANIEL SAHU	10									
38	1921289069	KISHAN SINGH	11									
39	1921289070	NILESH KUMAR SWAIN	11									
40	1921289071	NITESH KUMAR	9									
41	1921289072	PRAKASH RANJAN NAYAK	10									
42	1921289073	RAKESH SASMAL	10									
43	1921289074	RASMI RANJAN SAHOO	11									
44	1921289075	SANJAYA KUMAR SAHU	11									
45	1921289076	SIDHARTH BEHERA	11									
46	1921289077	SOURAJIT PATRA	11									
47	1921289078	SOUVIC ROY	11									
48	1921289079	SUMIT KUMAR PANDA	11									
49	1801289007	ABHISEK NAYAK	11									
50	1801289008	AKSHAT SIDHARTH	11									
51	1801289022	AMAN AKASH	10									
52	1801289024	AMARESH SAMANTARAY	11									
53	1801289029	ARYA KUMAR	11									
54	1801289065	ANSHUMAN SWAIN	10									
55	1801289071	ASHUTOSH PRASAD	11									
56	1801289081	B SRAVAN KUMAR	11									
57	1801289112	DEEPAK KUMAR SAHU	9									
58	1801289181	MOHAMMED EHTESHAM	10									
59	1801289244	RUDRA PRASAD NAYAK	X									
60	1801289283	SHUBHAM KUMAR SINGH	11									
61	1801289327	SUDIP SAHU	9									
62	1801289332	SUPRAVA PARIDA	11									

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 31.08.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Aptitude and Reasoning" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 30.08.2021, we are planning to start a course on "Aptitude and Reasoning" for the B. Tech students. The objective of the course is to enhance students' quantitative aptitude, logical reasoning, and analytical skills, which are crucial for competitive exams and placement opportunities. The course duration and schedule are attached for your approval.

We seek your kind permission to initiate this course from 06.09.2021 and look forward to your favourable response. The course duration and schedule are attached for your perusal.

Thanking You,

(HOD, MBA)
HOD
MBA

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Bhubaneswar-751024

Aptitude and Reasoning

Total Lecture Periods: 22 hrs.
Course Objectives:

This course aims to build strong analytical and problem-solving skills by covering a wide range of topics in quantitative aptitude and logical reasoning. Students will learn to apply these skills in solving real-life problems, placement exams, and competitive exams such as GATE, GRE, and others.

MODULES

Module-I: Quantitative Aptitude Basics [7 periods]

- Number Systems, HCF and LCM, Fractions and Decimals
- Percentage, Profit and Loss, Simple and Compound Interest
- Time, Speed and Distance, Time and Work
- Ratio and Proportion, Averages, Alligation, Mixture Problems
- Simplification and Approximation

Module-II: Advanced Quantitative Aptitude [5 periods]

- Linear and Quadratic Equations
- Probability, Permutation and Combination
- Allegation, Mensuration
- Sequences and Series (Arithmetic Progression, Geometric Progression, etc.)
- Data Interpretation (Pie charts, Bar graphs, Tables, etc.)

Module-III: Logical Reasoning [5 periods]

- Analytical Reasoning, Directions and Distances
- Blood Relations, Coding-Decoding
- Series Completion, Odd One Out
- Syllogisms, Clocks and Calendars
- Puzzles, Seating Arrangement

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Module-IV: Verbal Reasoning [5 periods]

- Verbal Ability (Vocabulary, Antonyms, Synonyms)
- Reading Comprehension
- Sentence Correction and Completion
- Para Jumbles, Paragraph Completion
- Critical Reasoning, Statement and Assumptions

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Effectively solve quantitative aptitude problems using various techniques.
- **CO2**: Apply logical reasoning in problem-solving scenarios.
- **CO3**: Interpret data and solve complex reasoning puzzles.
- **CO4**: Develop strategies for tackling competitive exams (GATE, GRE, etc.).
- **CO5**: Enhance verbal reasoning and communication skills.
- **CO6**: Work collaboratively on group exercises and improve critical thinking.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required.
2. **Qualifying Marks**: Minimum passing marks in the course is 50%.
3. **Certificate**: A certificate will be awarded upon successful completion of the course and assessment.

Suggested Learning Resources

- **Books**:
    1. "Quantitative Aptitude for Competitive Exams" by R.S. Agarwal
    2. "A Modern Approach to Logical Reasoning" by R.S. Agarwal
    3. "Verbal and Non-Verbal Reasoning" by R.S. Agarwal

P k Nanda
(Course Instructor)

(HOD, MBA)

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APTITUDE AND REASONING

SCHEDULE

Sl No	Date	Time	Course Content
1	6/09/2021	3:00PM-6:00PM	Number Systems, HCF and LCM, Fractions and Decimals, Percentage
2	7/09/2021	3:00PM-6:00PM	Profit and Loss, Simple and Compound Interest, Time, Speed and Distance, Time and Work
3	8/09/2021	3:00PM-6:00PM	Ratio and Proportion, Averages, Allegation, Mixture Problems, Simplification and Approximation
4	9/09/2021	3:00PM-6:00PM	Linear and Quadratic Equations, Probability, Permutation and Combination, Mensuration
5	10/09/2021	3:00PM-6:00PM	Sequences and Series (AP, GP), Data Interpretation (Pie Charts, Bar Graphs, Tables, etc.)
6	11/09/2021	3:00PM-6:00PM	Analytical Reasoning, Directions and Distances, Blood Relations, Coding-Decoding, Series Completion
7	13/09/2021	3:00PM-6:00PM	Verbal Ability (Vocabulary, Antonyms, Synonyms), Sentence Correction and Completion, Para Jumbles
9	15/09/2021	5:00PM-6:00PM	Assessment

P k Nanda
(Course Instructor)

(HOD, MBA)

HOD
MBA

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:01.09.2021

This is to inform all B. Tech students that the department of MBA will start an add-on course on "Aptitude and Reasoning" starting from 6/09/2018. Interested students must register by 3/9/2021. The course details are as follows:

- Course Name: Aptitude and Reasoning
- Instructor Name: P K Nanda
- Registration Contact: 9861234765

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii)AO
(iv)All Notice Board

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Trident Academy of Technology
Bhubaneswar-751024

Date: 04.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Aptitude and Reasoning".

Respected Sir,

We are going to start the course on "Aptitude and Reasoning" from 19.09.2021 and a total of 62 Students have enrolled for this course. This is for your kind information.

P k Nanda
(Course Instructor)

(HOD, MBA)

HOD
MBA

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:15.09.2021

APTITUDE AND REASONING

ASSESSMENT

Name Of the Student: Biswajit Sahoo
Regd No: 1801289095

10/10

All Questions Compulsory

Q1: What is the LCM of 12 and 18?
A) 24 B) 36
C) 48 D) 72

Q2: A man buys an article for ₹500 and sells it for ₹650. What is his profit percentage?
A) 25% B) 30%
C) 35% D) 40%

Q3: A train moving at a speed of 72 km/h crosses a pole in 25 seconds. What is the length of the train?
A) 200 meters B) 300 meters
C) 400 meters D) 500 meters

Q4: If 3 workers can complete a task in 12 days, how many days will it take for 6 workers to complete the same task?
A) 4 days B) 6 days
C) 8 days D) 10 days

Q5: What is the next term in the arithmetic sequence: 5, 10, 15, 20, ___?
A) 22 B) 24
C) 25 D) 30

Q6: In a class of 40 students, 60% are boys. How many girls are there in the class?
A) 12 B) 14
C) 16 D) 18

Q7: If 'APPLE' is coded as 'ELPPA', how will 'ORANGE' be coded?
A) ENAGRO B) EGNARO
C) EGNORA D) EORANG

Q8: Find the odd one out: 121, 144, 169, 225, 256
A) 144 B) 169
C) 225 D) 256

Q9: Which of the following words is the synonym of 'benevolent'?
A) Generous B) Cruel
C) Arrogant D) Greedy

Q10: In a certain code language, 'BOOK' is written as 'DQQM'. How is 'PEN' written in that language?
A) RGP B) QFO
C) QGP D) RPG

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: PK Nanda **Month/Year:** Aug. 2021

Subject Code: **Branch:**

Subject: Aptitude and Reasoning

Sl. No	REGD NO	NAME	6/7/21	7/7/21	8/7/21	9/7/21	10/7/21	11/7/21	13/7/21	15/7/21		
1	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8		
2	1801289028	AMAN RAJ	1	2	X	3	4	5	6	7		
3	1801289032	AMIT KUMAR MISHRA	1	2	3	4	5	6	7	8		
4	1801289041	ANIMES DAS	1	2	3	4	5	6	X	7		
5	1801289072	ATUL KUMAR	X	1	2	3	4	5	6	7		
6	1801289086	BIKASH KUMAR PATI	1	2	3	4	5	6	7	8		
7	1801289095	BISWAJIT SAHOO	1	2	3	4	X	5	6	7		
8	1801289097	BISWOZEET SAHOO	1	2	3	4	5	6	7	8		
9	1801289130	GIRIJA SANKAR DEO	1	2	3	4	5	6	7	8		
10	1801289131	GOURAV SONWANEY	1	X	2	3	4	5	6	7		
11	1801289133	HARAPRASAD HEMBRAM	1	2	3	4	5	6	7	8		
12	1801289144	JEEBAN CHANDIPRASAD SAMAL	1	2	3	4	5	6	7	8		
13	1801289157	KULDEEP SAHA	1	2	3	4	5	6	7	8		
14	1801289166	MANAS RANJAN ROUT	X	1	2	3	4	5	6	7		
15	1801289170	MANISH SINHA	1	2	X	3	4	5	6	7		
16	1801289172	MD FAHAD	1	2	3	X	4	5	6	7		
17	1801289173	MD YOUSUF REHAN	1	X	2	3	4	5	6	7		
18	1801289208	PRASANT KUMAR SWAIN	1	2	X	3	4	5	X	6		
19	1801289215	PRAVASH KUMAR DAS	1	2	3	4	5	6	7	8		
20	1801289217	PRITAM JENA	1	2	3	4	5	6	7	8		
21	1801289225	RAHUL KUMAR SHAW	1	2	X	3	4	5	6	7		
22	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8		
23	1801289260	SANTU MANDAL	1	X	2	3	4	5	6	7		
24	1801289275	SHIV SUNDAR JENA	1	2	3	4	5	6	7	8		
25	1801289297	SOMANATH SAMAL	1	2	3	4	5	6	7	8		
26	1801289306	SOUMYARANJAN SAHOO	X	1	2	3	4	5	6	7		
27	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8		
28	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8		
29	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	8		

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Sl. No	REGD NO	NAME	6/9/21	7/9/21	9/9/21	9/9/21	10/9/21	11/9/21	13/9/21	15/9/21		
30	1921289080	TARUN KUMAR SWAIN	1	2	3	4	X	5	6	7		
31	1921289062	ABHISEK JENA	1	2	3	X	4	5	6	7		
32	1921289063	ABHISHEK PARIDA	1	2	X	3	4	X	5	6		
33	1921289064	AMIT KUMAR PANDA	X	1	2	3	4	5	6	7		
34	1921289065	ANMOL MISHRA	1	2	3	4	5	6	7	8		
35	1921289066	CHIRANJIV RAY	1	2	3	4	5	6	7	8		
36	1921289067	JNANANANDA SARANGI	1	2	3	4	5	6	X	7		
37	1921289068	JYOTI DANIEL SAHU	1	2	3	4	5	6	7	8		
38	1921289069	KISHAN SINGH	1	2	X	3	4	5	6	7		
39	1921289070	NILESH KUMAR SWAIN	1	2	3	4	5	C	7	8		
40	1921289071	NITESH KUMAR	1	2	3	4	5	6	7	8		
41	1921289072	PRAKASH RANJAN NAYAK	X	1	2	3	4	5	6	7		
42	1921289073	RAKESH SASMAL	1	2	3	4	5	6	7	8		
43	1921289074	RASMI RANJAN SAHOO	1	2	3	4	5	6	7	8		
44	1921289075	SANJAYA KUMAR SAHU	1	2	X	3	4	5	6	7		
45	1921289076	SIDHARTH BEHERA	X	1	2	3	4	6	7	8		
46	1921289077	SOURAJIT PATRA	1	2	3	4	5	6	7	8		
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48	1921289079	SUMIT KUMAR PANDA	1	2	X	3	4	5	6	7		
49	1801289007	ABHISEK NAYAK	1	X	2	3	4	5	6	7		
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51	1801289022	AMAN AKASH	1	2	3	4	5	6	7	8		
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53	1801289029	ARYA KUMAR	1	2	3	4	5	X	6	7		
54	1801289065	ANSHUMAN SWAIN	1	2	X	3	4	5	6	7		
55	1801289071	ASHUTOSH PRASAD	1	X	2	3	4	5	6	7		
56	1801289081	B SRAVAN KUMAR	1	2	3	4	5	6	7	8		
57	1801289112	DEEPAK KUMAR SAHU	1	2	3	4	5	6	7	8		
58	1801289181	MOHAMMED EHTESHAM	X	1	2	3	4	5	6	7		
59	1801289244	RUDRA PRASAD NAYAK	1	2	3	4	5	6	7	8		
60	1801289283	SHUBHAM KUMAR SINGH	1	2	3	4	5	6	7	8		
61	1801289327	SUDIP SAHU	1	2	3	4	5	6	7	8		
62	1801289332	SUPRAVA PARIDA	1	2	3	4	5	6	7	8		

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 03.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to Start Certificate Course in "Challenges in Smart Grid Environment Using IoT - Phase 01"

Respected Sir,

As per our departmental meeting held on 02.09.2021, we are planning to start a add-on course on "Challenges in Smart Grid Environment Using IoT - Phase 01" starting from 13.09.2021. This course provides a fundamental knowledge of smart grid technologies and IoT integration. Emphasizing real-world challenges and solutions, the course will enable participants to understand, analyze, and solve problems in a smart grid environment using IoT frameworks.

The course duration and schedule are attached for your perusal.

Thanking You,

PChand

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Challenges in Smart Grid Environment Using IoT - Phase 01

Total Lecture Periods: 36hrs

Course Objectives:

This course aims to introduce students to:

- The fundamentals of smart grid infrastructure and IoT applications.
- Challenges in integrating IoT into traditional power systems.
- Tools and technologies for addressing smart grid inefficiencies.
- Real-world case studies and problem-solving frameworks.

Modules

MODULE-I: Introduction to Smart Grid and IoT [9 periods]

- Basics of Smart Grid Systems
- Overview of IoT in Energy Management
- Communication Protocols: ZigBee, LoRa, and MQTT
- Components of a Smart Grid Environment
- Benefits and Barriers of IoT in Smart Grids

MODULE-II: IoT Technologies in Smart Grid Applications [9 periods]

- IoT-Based Sensors for Energy Monitoring
- Integration of Smart Meters and Devices
- Data Acquisition Systems in Smart Grids
- Network Security and Data Integrity in IoT Systems
- Introduction to Edge Computing and Cloud Solutions

MODULE-III: Challenges in Smart Grid Implementation [9 periods]

- Cybersecurity Risks in IoT Smart Grids
- Reliability Issues and System Downtime
- Challenges in Demand Response Management
- Scalability and Interoperability Concerns
- Cost Analysis for IoT Deployments

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MODULE-IV: Advanced Solutions and Real-World Case Studies [9 periods]

- AI and Machine Learning in Smart Grid Optimization
- Blockchain for Secure Transactions in IoT Systems
- Case Studies: Successful IoT Integration in Smart Grids
- Problem Solving with Simulation Tools (MATLAB, Simulink, etc.)
- Hands-on Workshop: IoT for Smart Grid Monitoring

Course Outcomes:

By completing this course, students will:

1. CO1: Gain knowledge of smart grid basics and IoT fundamentals.
2. CO2: Analyze challenges in deploying IoT in smart grids.
3. CO3: Apply IoT technologies to solve energy distribution issues.
4. CO4: Implement problem-solving techniques using real-world tools.
5. CO5: Understand the importance of cybersecurity and data integrity.
6. CO6: Build technical competence for careers in IoT and energy systems.

Evaluation Process:

1. **Attendance:** A minimum of 75% attendance is mandatory.
2. **Assessment:** Students must secure 50% or higher in the final evaluation.
3. **Certification:** Certificates will be awarded upon successful completion.

Learning Resources:

Suggested Books:

- "Smart Grid Technology and Applications" by Janaka B. Ekanayake
- "IoT Fundamentals: Networking Technologies, Protocols, and Use Cases" by Hanes & Salgueiro
- "Cybersecurity and Privacy in Smart Grids" by Maleh et al.

R.K. Pradhan

Ranjeeb Pradhan

(Course Instructor)

(HOD, CSE)

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SCHEDULE

Challenges in Smart Grid Environment Using IoT - Phase 01

Sl No	Date	Time	Content
1	13.09.2021	3.00PM-6.00PM	Introduction to Smart Grids: Basics, components, and IoT in energy management.
2	14.09.2021	3.00PM-6.00PM	Communication Protocols: ZigBee, LoRa, MQTT in smart grid environments.
3	15.09.2021	3.00PM-6.00PM	IoT Technologies in Smart Grids: Sensors, smart meters, and data acquisition systems.
4	16.09.2021	3.00PM-6.00PM	Network Security & Data Integrity: Securing IoT systems in smart grids.
5	17.09.2021	3.00PM-6.00PM	Edge Computing & Cloud Solutions: Integration for smart grid optimization.
6	18.09.2021	3.00PM-6.00PM	Challenges in Smart Grid Implementation: Cybersecurity, reliability, demand response, and scalability.
7	20.09.2021	3.00PM-6.00PM	Cost Analysis for IoT Deployments:
8	21.09.2021	3.00PM-6.00PM	AI and Blockchain in Smart Grids:
9	22.09.2021	3.00PM-6.00PM	Evaluating financial aspects of smart grid systems.
10	23.09.2021	3.00PM-6.00PM	Optimization and secure transactions.
11	24.09.2021	3.00PM-6.00PM	Case Studies and Hands-on Workshop:
12	25.09.2021	4.00PM-6.00PM	Real-world IoT integration and simulation tools.
13	27.09.2021	5.00PM-6.00PM	Assessment

R. C. Pradhan

Ranjeeb Pradhan

(Course Instructor)

P Cleared

(HOD, CSE)

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Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:06.09.2021

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Challenges in Smart Grid Environment Using IoT - Phase 01" starting from 13.09.2021. Interested students must register by 09.09.2021. The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Ranjeeb Pradhan
- Registration Contact: Ranjeeb Pradhan

Principal 06/09/21

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Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii)AO
(iv)All Notice Board

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Trident Academy of Technology
Bhubaneswar-751024

Date: 10.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course " Challenges in Smart Grid Environment Using IoT - Phase 01".

Respected Sir,

We are going to start a course on " Challenges in Smart Grid Environment Using IoT - Phase 01 " from 13.09.2021 and a total of 25 Students have enrolled for this course. This is for your kind information.

R.C. Pradhan

Ranjeeb Pradhan

(Course Instructor)

PCheer

(HOD, CSE)

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Computer Science Engg.

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Trident Academy of Technology
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:27.09.2021

CHALLENGES IN SMART GRID ENVIRONMENT USING IOT-PHASE 01

ASSESSMENT

09/10

Name Of the Student: Amiya Palai

Regd No: 1801289035

All Questions Compulsory

Q1: What is the primary objective of a smart grid system?

A) To reduce the use of electricity B) To enhance energy efficiency and reliability

C) To eliminate the need for power generation D) To increase electricity costs

Q2: Which communication protocol is commonly used for low-power, long-range communication in IoT-based smart grids?

A) ZigBee B) LoRa

C) Wi-Fi D) Bluetooth

Q3: What is the main role of IoT in energy management?

A) To replace conventional electricity meters

B) To monitor, control, and optimize energy consumption

C) To generate renewable energy

D) To eliminate the need for human intervention in power distribution

Q4: Which component is crucial for real-time energy monitoring in smart grids?

A) Smart meters B) Transformers

C) Circuit breakers D) Power generators

Q5: What is a major cybersecurity concern in IoT-enabled smart grids?

A) Unauthorized access and data breaches B) High installation costs

C) Lack of smart meters D) Overconsumption of electricity

Q6: What is the function of edge computing in smart grid environments?

A) To centralize all data processing in cloud servers

B) To process data closer to the source for faster decision-making

C) To replace traditional power plants

D) To store excess electricity

Q7: Which of the following is a challenge in smart grid implementation?

A) Unlimited energy supply B) High system reliability without maintenance

C) Scalability and interoperability concerns D) Decreased electricity consumption

Q8: How can blockchain contribute to IoT-based smart grid systems?

A) By ensuring secure and tamper-proof transactions B) By reducing energy production

C) By replacing smart meters D) By eliminating the need for sensors

Q9: What is a key advantage of using AI and machine learning in smart grids?

A) Predicting energy demand and optimizing grid performance B) Replacing the need for power plants

C) Increasing electricity prices D) Eliminating data storage needs

Q10: Which tool is commonly used for simulating smart grid scenarios?

A) Photoshop B) MATLAB

C) MS Excel D) AutoCAD

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V Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Ranjeep Kumar pradhan **Month/Year:** 09/21

Subject Code: **Branch:**

Subject: Challenges in Smart Grid Environment using IOT

Sl. No	REGD NO	NAME	13/09	14/09	15/09	16/09	17/09	18/09	20/09	21/09	22/09	23/09
1	1801289001	ABANISH MUDULI	1	2	3	4	5	6	7	8	9	10
2	1801289002	ABDUL AABID KHAN	1	2	3	4	5	6	7	8	9	10
3	1801289003	ABHIJEET MOHANTY	1	X	2	3	4	5	6	7	8	X
4	1801289010	ABHISHEK KUMAR	1	2	3	4	5	X	6	7	8	9
5	1801289016	ADARSH DHIR	1	2	X	3	4	5	6	7	X	8
6	1801289017	ADITYA ASHUTOSH	1	2	3	4	5	6	7	8	9	X
7	1801289020	AKANKSHA DAS	1	2	3	4	X	5	6	7	8	9
8	1801289021	AKASH KUMAR	1	2	X	3	4	5	6	7	8	9
9	1801289026	AMAN MOHANTY	1	2	3	4	5	6	7	8	9	10
10	1801289027	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
11	1801289031	AMIT GIRI	1	2	3	4	5	X	6	7	8	9
12	1801289033	AMIT KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
13	1801289034	AMITABH TARENIA	1	2	3	4	5	6	7	8	9	10
14	1801289035	AMIYA PALAI	1	2	3	4	X	5	6	7	8	9
15	1801289037	AMLAN KUMAR NANDY	1	2	3	4	5	6	7	X	8	9
16	1801289038	ANANYA DASH	1	2	3	4	5	6	7	8	9	10
17	1801289039	ANANYA PRIYADARSHINI MANTRY	1	X	2	X	3	4	5	6	7	8
18	1801289042	ANIMESH SAHOO	1	2	3	X	4	5	6	7	8	X
19	1801289043	ANJALI KUMARI	1	2	3	4	5	6	7	8	9	10
20	1801289044	ANKIT BHUYAN	1	2	3	4	5	6	7	X	8	9
21	1801289045	ANKITA BHUYAN	1	2	3	4	5	X	6	7	8	9
22	1801289051	ANKITA SINGH	1	2	3	4	5	6	7	8	9	10
23	1801289058	ARCH SATPATHY	1	2	3	4	5	6	7	8	9	10

R.K. Pradhan

Signature of Teacher

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V Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Rajeep Kumar pradhan **Month/Year:** 09/21

Subject Code: **Branch:**

Subject: Challenges in Smart Grid Environment using IOT

Sl. No	REGD NO	NAME	24/09	25/09	27/09							
1	1801289001	ABANISH MUDULI	11	12	13							
2	1801289002	ABDUL AABID KHAN	11	12	13							
3	1801289003	ABHIJEET MOHANTY	9	X	10							
4	1801289010	ABHISHEK KUMAR	10	11	12							
5	1801289016	ADARSH DHIR	X	9	10							
6	1801289017	ADITYA ASHUTOSH	10	11	11							
7	1801289020	AKANKSHA DAS	10	X	11							
8	1801289021	AKASH KUMAR	10	11	12							
9	1801289026	AMAN MOHANTY	11	X	12							
10	1801289027	AMAN RAJ	11	12	13							
11	1801289031	AMIT GIRI	X	10	11							
12	1801289033	AMIT KUMAR SINGH	X	11	12							
13	1801289034	AMITABH TARENIA	11	12	13							
14	1801289035	AMIYA PALAI	10	X	11							
15	1801289037	AMLAN KUMAR NANDY	10	11	12							
16	1801289038	ANANYA DASH	11	12	13							
17	1801289039	ANANYA PRIYADARSHINI MANTRY	9	10	11							
18	1801289042	ANIMESH SAHOO	9	10	11							
19	1801289043	ANJALI KUMARI	11	X	12							
20	1801289044	ANKIT BHUYAN	10	11	12							
21	1801289045	ANKITA BHUYAN	10	11	12							
22	1801289051	ANKITA SINGH	11	12	13							
23	1801289058	ARCH SATPATHY	11	X	12							

R.K.pradhan

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Date: 01.09.2021

To,
The Principal
Trident Academy of Technology,
Patia, Bhubaneswar

Sub: Permission to Start Certificate Course in **"Artificial Intelligence and Machine Learning for Signal Processing - Phase 02"**

Respected Sir,

As per our departmental meeting held on 01.09.2021, we propose initiating a certificate course titled **"Artificial Intelligence and Machine Learning for Signal Processing - Phase 02"** starting from 05.09.2021. This course aims to provide advanced knowledge in applying AI and ML techniques to signal processing. It focuses on solving real-world challenges in areas such as audio processing, image recognition, and biomedical signal analysis.

The course content, schedule, and objectives are attached for your review.

Thanking you
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Artificial Intelligence and Machine Learning for Signal Processing

Total Lecture Periods:36 hrs

Course Objectives:

This course is designed to:

- Introduce advanced AI and ML algorithms for signal processing applications.
- Equip students with hands-on experience in handling and analyzing complex signals.
- Enable participants to use AI models for predictive and classification tasks in signal processing.
- Cover real-world applications such as speech recognition, image enhancement, and medical signal interpretation.

Modules

MODULE-I: Advanced Signal Processing Concepts [10 periods]

- Overview of Digital Signal Processing (DSP) and its AI Applications
- Feature Extraction and Transformation Techniques
- Time-Frequency Analysis (Fourier Transform, Wavelet Transform)
- Signal Filtering and Noise Reduction Using AI
- Case Study: AI-Driven Audio Enhancement

MODULE-II: Machine Learning for Signal Processing [10 periods]

- Supervised and Unsupervised Learning in Signal Processing
- Dimensionality Reduction Techniques (PCA, LDA)
- Classification Algorithms: SVM, Random Forest, k-NN
- Regression for Predictive Analysis
- Hands-on: ML Models for Speech and Audio Classification

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MODULE-III: Deep Learning for Signal Processing [10 periods]

- Introduction to Deep Learning Frameworks (TensorFlow, PyTorch)
- Convolutional Neural Networks (CNNs) for Image Signals
- Recurrent Neural Networks (RNNs) and LSTMs for Time-Series Signals
- Transfer Learning in Signal Processing Applications
- Case Study: Deep Learning for ECG Signal Analysis

MODULE-IV: Applications and Deployment [10 periods]

- Speech Recognition Systems Using AI
- Image Signal Processing: Enhancement and Classification
- Biomedical Signal Processing (EEG, ECG, and EMG)
- Deployment of AI Models for Real-Time Signal Analysis
- Advanced Topics: Reinforcement Learning and Edge AI for Signal Processing

Course Outcomes

By completing this course, students will:

1. CO1: Understand and apply advanced signal processing techniques using AI and ML.
2. CO2: Build ML models for predictive and classification tasks in signal processing.
3. CO3: Develop and deploy deep learning architectures for real-world signal applications.
4. CO4: Gain expertise in handling large-scale datasets and time-series signals.
5. CO5: Analyze and solve practical challenges in domains like audio, image, and biomedical signal processing.
6. CO6: Prepare for careers in AI-driven research and development in signal processing.

Evaluation Process:

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1. **Attendance:** A minimum of 75% attendance is mandatory.
2. **Assessment:** Students must secure 50% or higher in the final evaluation.
3. **Certification:** Certificates will be awarded upon successful completion.

Learning Resources:

Suggested Books:

- **"Digital Signal Processing" by John G. Proakis**
- **"Deep Learning for Signal Processing" by Shinsuke Sakai**
- **"Pattern Recognition and Machine Learning" by Christopher Bishop**

Course Instructor:

Arpita Nibedita

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Schedule

Date	Day	Time	Content
05.09.2021	1	2:00 PM – 6:00 PM	Feature Extraction and Noise Filtering
06.09.2021	2	2:00 PM – 6:00 PM	Supervised Learning for Signal Classification
07.09.2021	3	2:00 PM – 6:00 PM	Dimensionality Reduction and Regression in Signal Processing
08.09.2021	4	2:00 PM – 6:00 PM	Introduction to Deep Learning Frameworks
09.09.2021	5	2:00 PM – 6:00 PM	CNNs for Image and Visual Signal Processing
10.09.2021	6	2:00 PM – 6:00 PM	RNNs for Time-Series Signal Analysis
12.09.2021	7	2:00 PM – 6:00 PM	AI for Biomedical Signal Processing
13.09.2021	8	2:00 PM – 6:00 PM	Deployment of AI for Real-Time Applications
14.09.2021	9	2:00 PM – 6:00 PM	Case Study and Advanced Topics

Course Instructor:

Arpita Nibedita

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NOTICE

This is to inform all B.Tech (all branches) students that a course on **"Artificial Intelligence and Machine Learning for Signal Processing - Phase 02"** will commence on 05.09.2021.

Interested students are required to register by 04.09.2021.

- **Instructor Name:** Arpita Nibedita
- **Registration Contact:** Arpita Nibedita

Principal

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Trident Academy of Technology
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Copy to:

1. All HODs
2. AO Office
3. Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 01.09.2021

To,
The Principal
Trident Academy of Technology,
Patia, Bhubaneswar

Respected Sir,

A Total of 25 of students from various departments have enrolled for the value-added course on" **Artificial Intelligence and Machine Learning for Signal Processing**

"This is for your kind information.

Course Instructor:

Arpita Nibedita

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:14.09.2021

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FOR SIGNAL PROCESSING

PHASE 02

ASSESSMENT

10/10

Name Of the Student: Ashish Ranjan

Regd No: 1801289068

All Questions Compulsory

Q1: What is the primary purpose of Digital Signal Processing (DSP) in AI applications?

A) To generate new signals B) To manipulate, analyze, and extract useful information from signals

C) To increase the storage of signals D) To eliminate noise completely

Q2: Which technique is commonly used for time-frequency analysis in signal processing?

A) Fourier Transform B) Principal Component Analysis (PCA)

C) K-Means Clustering D) Decision Trees

Q3: Which AI-based approach can be used for noise reduction in signal processing?

A) Reinforcement Learning B) Deep Learning-based filtering

C) Rule-based Systems D) Genetic Algorithms

Q4: What is the key benefit of using PCA in signal processing?

A) Enhancing the amplitude of signals

B) Reducing the dimensionality of data while retaining important features

C) Eliminating low-frequency components

D) Generating artificial signals

Q5: Which classification algorithm is best suited for pattern recognition in signal processing?

A) k-Nearest Neighbors (k-NN) B) Breadth-First Search

C) Naïve Bayes D) A* Algorithm

Q6: Which deep learning model is commonly used for analyzing time-series signals?

A) Convolutional Neural Networks (CNNs) B) Recurrent Neural Networks (RNNs)

C) Random Forest D) Support Vector Machines (SVM)

Q7: Transfer learning in signal processing is primarily used for:

A) Training deep learning models from scratch

B) Using pre-trained models to enhance feature extraction and classification

C) Eliminating the need for labeled data

D) Replacing traditional Fourier Transform methods

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Q8: What is the primary goal of AI in biomedical signal processing?

A) To enhance and classify biomedical signals such as EEG and ECG
B) To increase the size of biomedical datasets
C) To replace medical professionals in diagnosis
D) To convert biomedical signals into audio signals

Q9: Which AI technique is widely used for speech recognition systems?

A) Reinforcement Learning B) Hidden Markov Models (HMM) and Deep Neural Networks (DNN)
C) Decision Trees D) Naïve Bayes

Q10: What is Edge AI in signal processing?

A) AI models running on cloud servers
B) AI models running on local edge devices for real-time processing
C) AI models designed for financial analysis
D) AI models that only work with text-based data

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Arpita Nibedita **Month/Year:** Sept 2021

Subject Code: **Branch:**

Subject:

Sl. No	REGD NO	NAME	05/09	06/09	07/09	08/09	09/09	10/09	12/09	13/09	14/09	
1	1801289060	ARKASARATHI DAS	1	2	3	4	5	6	7	8	9	
2	1801289061	ARPIT ABHISHEK MOHANTY	1	2	3	4	5	6	7	8	9	
3	1801289066	ASHISH KUMAR JENA	1	2	3	4	5	6	7	8	9	
4	1801289067	ASHISH KUMAR MOHAPATRA	1	X	2	3	4	5	6	7	8	
5	1801289068	ASHISH RANJAN	1	2	3	4	5	6	7	8	9	
6	1801289069	ASHRIBAD BEHERA	1	2	3	4	5	6	X	7	8	
7	1801289070	ASHUTOSH JENA	1	2	3	4	5	6	7	8	9	
8	1801289073	AURPITA SWAIN	1	2	3	4	5	6	7	8	9	
9	1801289074	AVI KUMAR	1	X	2	3	4	5	6	7	8	
10	1801289075	AYASKANTA BEHERA	1	2	X	3	4	5	6	7	8	
11	1801289076	AYESHKANT LENKA	1	2	3	4	5	X	6	7	8	
12	1801289078	AYUSH PANDEY	1	2	3	4	5	6	7	8	9	
13	1801289079	AYUSH SHARMA	1	2	3	4	5	6	X	7	8	
14	1801289082	BAISALI DAS	1	2	3	4	5	6	7	8	9	
15	1801289085	BHABANI SHANKAR NAYAK	1	2	3	4	5	6	7	8	9	
16	1801289087	BINIT JAISWAL	1	2	3	4	5	6	7	8	9	
17	1801289088	BISHAL ACHARYA	1	2	3	X	4	5	6	4	7	
18	1801289090	BISHAL MALLICK	1	2	3	4	5	6	7	8	9	
19	1801289091	BISHNU PRASAD PANDA	1	2	3	4	5	6	7	8	9	
20	1801289096	BISWAJIT SAHOO	1	2	3	4	5	6	X	7	8	
21	1801289098	CHANDRA SHEKHAR JENAMONI	1	2	3	4	5	6	7	8	9	
22	1801289099	CHANDRAPRAVA MOHANTY	1	2	3	4	5	6	7	8	9	
23	1801289100	CHINMAYA SAMANTARA	1	X	2	3	4	5	6	7	8	
24	1801289101	CHIRANJIBEE MOHAPATRA	1	2	3	4	5	6	7	8	9	
25	1801289102	CHITTA RANJAN BISWAL	1	2	3	4	5	6	7	8	9	

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 02.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to Start Certificate Course in "Applications of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) in Science, Engineering, and Management" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 02.09.2021, we are planning to start an add-on course on "Applications of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) in Science, Engineering, and Management" from 08.09.2021. The objective of this course is to provide students with an in-depth understanding of AI, ML, and DL concepts and how they can be applied across different domains such as engineering, science, and management. This course will enable students to utilize AI, ML, and DL tools to solve complex problems and develop innovative solutions in their respective fields. The course duration and schedule are attached for your perusal.

Thanking You,

(HOD, CSE)

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SYLLABUS

Applications of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) in Science, Engineering, and Management

Total Lecture Periods: 36hrs

Course Objectives:
This course aims to enhance students' understanding of the theoretical and practical aspects of AI, ML, and DL. It will introduce them to the application of these technologies in various domains, such as data analysis, decision-making, optimization problems, and predictive analytics.

Modules and Content:

Module-I: Introduction to AI, ML, and DL [10 periods]

- Overview of AI, ML, and DL
- Basic concepts, terminologies, and types of learning (Supervised, Unsupervised, Reinforcement)
- Applications of AI in various fields
- Overview of popular AI frameworks (TensorFlow, Keras, Scikit-learn)

Module-II: Machine Learning Fundamentals [10 periods]

- Supervised Learning: Regression, Classification
- Unsupervised Learning: Clustering, Dimensionality Reduction
- Reinforcement Learning and Decision Making
- Evaluation Metrics for ML models: Accuracy, Precision, Recall, F1 Score

Module-III: Deep Learning Techniques [8 periods]

- Introduction to Neural Networks
- Convolutional Neural Networks (CNN) for Image Recognition
- Recurrent Neural Networks (RNN) for Time-Series Data
- Training Deep Learning models, Backpropagation, and Optimization Techniques

Module-IV: Applications of AI, ML, and DL in Science, Engineering, and Management [8periods]

- AI in Engineering: Predictive maintenance, Fault detection, Robotics
- ML in Science: Data analysis in Biology, Physics, and Chemistry
- DL in Management: Business Intelligence, Marketing Analytics, Predictive Analytics
- Case studies on AI/ML applications in real-world problems across domains

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Course Outcomes:

After completing the course, students will be able to:

1. Understand the foundational concepts of AI, ML, and DL.
2. Apply ML algorithms to solve real-world problems in engineering, science, and management.
3. Use DL techniques for image recognition, speech processing, and natural language processing.
4. Evaluate and optimize machine learning models for better prediction and decision-making.
5. Develop AI-driven applications for data analysis and problem-solving in various industries.

Evaluation Process:

1. **Attendance:** A minimum of 75% attendance is mandatory.
2. **Assessment:** The course will be assessed through assignments, projects, and a final exam.
3. **Certification:** A certificate will be issued after the successful completion of the course and assessment.

Learning Resources:

Suggested Books:

1. "Artificial Intelligence: A Modern Approach" by Stuart Russell and Peter Norvig
2. "Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow" by Aurélien Géron
3. "Deep Learning" by Ian Goodfellow, Yoshua Bengio, and Aaron Courville

Sashi Bhusana Parida
(Course Instructor)

(HOD, CSE)

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Applications of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) in Science, Engineering, and Management

Sl No	Date	Time	Course Content
1	08.09.2021	3:00 PM - 6:00 PM	Introduction to AI, ML, and DL; Basic Concepts
2	09.09.2021	3:00 PM - 6:00 PM	Supervised Learning Algorithms
3	10.09.2021	3:00 PM - 6:00 PM	Unsupervised Learning and Clustering
4	11.09.2021	3:00 PM - 6:00 PM	Reinforcement Learning and Decision Making
5	13.09.2021	3:00 PM - 6:00 PM	Neural Networks
6	14.09.2021	3:00 PM - 6:00 PM	Backpropagation
7	15.09.2021	3:00 PM - 6:00 PM	Applications of AI in Science and Management
8	16.09.2021	3:00 PM - 6:00 PM	CNN for Image Processing
9	17.09.2021	3:00 PM - 6:00 PM	RNN for Time-Series Prediction
10	18.09.2021	3:00 PM - 6:00 PM	Model Evaluation and Optimization
11	20.09.2021	3:00 PM - 6:00 PM	AI in Engineering: Applications and Case Studies
12	21.09.2021	3:00 PM - 6:00 PM	Neural Networks and Backpropagation
13	22.09.2021	5:00 PM - 6:00 PM	Assessment

Sashi Bhusana Parida
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:03.09.2021

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Applications of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) in Science, Engineering, and Management " starting 08.09. 2021.All interested students are instructed to register before 06.09. 2021.The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Sashi Bhusana Parida
- Registration Contact:9938793380

Principal

03/9/21

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Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Bhubaneswar-751024

Date: 07.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course " STAAD PRO V8i".

Respected Sir,

We are going to start a course on " Applications of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) in Science, Engineering, and Management " from 13.09.2021 and a total of 25 Students have enrolled for this course. This is for your kind information.

Sashi Bhusana Parida
(Course Instructor)

(HOD, CSE)
HOD
Computer Science Engg.

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Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:22.09.2021

Applications of AI, ML and DL in Science, Engineering and Management
ASSESSMENT

Name Of the Student: Sipra Sahoo
Regd No: 1801289290

10/10

All Questions Compulsory

Q1: Which type of learning involves training a model with labeled data?

A) Supervised learning B) Unsupervised learning
C) Reinforcement learning D) Semi-supervised learning

Q2: Which of the following is a popular AI framework used for deep learning?

A) TensorFlow B) MySQL
C) Hadoop D) Apache Spark

Q3: In machine learning, which metric is used to evaluate the balance between precision and recall?

A) Accuracy B) Mean Squared Error
C) F1 Score D) R-Squared

Q4: Which algorithm is commonly used for classification tasks in supervised learning?

A) K-Means B) Support Vector Machine (SVM)
C) Apriori Algorithm D) Principal Component Analysis (PCA)

Q5: What is the primary advantage of using Convolutional Neural Networks (CNNs) in image recognition?

A) They require less computational power
B) They can automatically detect spatial patterns and features in images
C) They work only with structured tabular data
D) They do not require labeled datasets

Q6: Which type of neural network is best suited for analyzing time-series data?

A) Convolutional Neural Networks (CNNs) B) Recurrent Neural Networks (RNNs)
C) Generative Adversarial Networks (GANs) D) Radial Basis Function Networks (RBFNs)

Q7: What is the purpose of back propagation in deep learning?

A) To generate new data points B) To optimize and update weights in a neural network
C) To perform data augmentation D) To cluster unlabeled data

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8: How is AI applied in predictive maintenance in engineering?

A) By manually inspecting machines regularly

B) By using AI models to analyze sensor data and predict failures

C) By replacing engineers with robots

D) By increasing the operational temperature of machines

Q9: Which area of management benefits from AI-driven predictive analytics?

A) Employee attendance tracking B) Business intelligence and marketing analytics

C) Manual data entry tasks D) Traditional bookkeeping

Q10: In reinforcement learning, what is the term for the system that makes decisions and learns from interactions with the environment?

A) Model B) Agent

C) Dataset D) Feature extractor

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Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 09/21

Subject Code: **Branch:**

Subject: Applications of AI/ML

Sl. No	REGD NO	NAME	08/09	09/09	10/09	11/09	13/09	14/09	15/09	16/09	17/09	18/09
1	1801289254	SAKSHI BHARDWAJ	1	2	X	3	4	5	6	7	X	8
2	1801289257	SANDEEP KUMAR RANA	1	2	3	4	5	6	X	7	8	9
3	1801289259	SANKET BISHOI	1	2	3	4	5	6	7	8	9	10
4	1801289264	SASHIKANTA SIAL	1	2	X	3	4	5	6	7	8	9
5	1801289265	SATABDI MILAN BEURA	1	2	3	4	X	5	X	6	7	8
6	1801289266	SATYA PRAKASH MOHANTY	1	2	3	4	5	6	7	8	9	10
7	1801289267	SATYA RANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
8	1801289268	SATYABRATA OJHA	1	2	3	4	5	6	7	8	9	10
9	1801289270	SATYASUMAN DASH	1	2	3	4	5	X	6	7	8	9
10	1801289271	SHAHJADA E SAQUALAIN	1	2	3	4	5	6	7	8	9	10
11	1801289272	SHAKTI PRASAD SAHOO	1	X	2	3	4	5	6	7	X	8
12	1801289274	SHIBA PRASAD MOHANTA	1	2	3	4	5	6	7	8	9	10
13	1801289277	SHOURYA KUMAR JHA	1	2	3	4	X	5	6	7	8	9
14	1801289280	SHUBHAM KESHRI	1	X	2	3	4	5	6	7	8	9
15	1801289281	SHUBHAM KUMAR	1	2	3	4	5	X	6	7	8	9
16	1801289284	SHUBHAM MISHRA	1	2	3	4	5	6	7	8	9	10
17	1801289290	SIPRA SAHOO	1	2	X	3	4	5	6	7	8	9
18	1801289291	SK NIZAMUDDIN	1	2	3	X	4	5	6	7	8	9
19	1801289292	SMRUTI DAS	1	2	3	4	5	6	7	8	9	10
20	1801289293	SMRUTI RANJAN KHUNTIA	1	2	3	4	5	6	7	8	9	10
21	1801289295	SOBHAN DASH	1	2	3	4	5	6	7	8	9	10
22	1801289299	SONALI GARNAIK	1	2	X	3	X	4	5	6	7	8
23	1801289300	SOUMYA RANJAN DALAI	1	2	3	4	5	6	7	8	9	10
24	1801289304	SOUMYAJYOTI PATRA	1	2	3	4	5	6	7	8	9	10
25	1801289305	SOUMYAKANT TRIPATHY	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sashi Bhushana Parida **Month/Year:** 09/21

Subject Code: **Branch:**

Subject: Applications of AI/ML

Sl. No	REGD NO	NAME	20/09	21/09	22/09							
1	1801289254	SAKSHI BHARDWAJ	9	X	10							
2	1801289257	SANDEEP KUMAR RANA	10	11	12							
3	1801289259	SANKET BISHOI	11	12	13							
4	1801289264	SASHIKANTA SIAL	10	X	11							
5	1801289265	SATABDI MILAN BEURA	9	10	11							
6	1801289266	SATYA PRAKASH MOHANTY	11	12	13							
7	1801289267	SATYA RANJAN SAHOO	11	12	13							
8	1801289268	SATYABRATA OJHA	11	12	13							
9	1801289270	SATYASUMAN DASH	10	11	12							
10	1801289271	SHAHJADA E SAQUALAIN	11	12	13							
11	1801289272	SHAKTI PRASAD SAHOO	09	10	11							
12	1801289274	SHIBA PRASAD MOHANTA	11	X	12							
13	1801289277	SHOURYA KUMAR JHA	10	X	11							
14	1801289280	SHUBHAM KESHRI	10	11	12							
15	1801289281	SHUBHAM KUMAR	10	11	12							
16	1801289284	SHUBHAM MISHRA	11	12	13							
17	1801289290	SIPRA SAHOO	11	X	12							
18	1801289291	SK NIZAMUDDIN	11	12	13							
19	1801289292	SMRUTI DAS	9	10	11							
20	1801289293	SMRUTI RANJAN KHUNTIA	11	12	13							
21	1801289295	SOBHAN DASH	11	12	13							
22	1801289299	SONALI GARNAIK	9	10	11							
23	1801289300	SOUMYA RANJAN DALAI	11	X	12							
24	1801289304	SOUMYAJYOTI PATRA	11	12	13							
25	1801289305	SOUMYAKANT TRIPATHY	11	12	13							

Parida
Signature of Teacher

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Date:12.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to Start Certificate Course in "AutoCAD for Engineering and Design" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 12.09.2021, we are planning to start a course on "AutoCAD for Engineering and Design" from 18.09.2021. The objective of this course is to provide students with a comprehensive understanding of AutoCAD software, which is widely used for creating precise 2D and 3D drawings in engineering, architecture, and design fields. This course will enable students to efficiently use AutoCAD to draft, design, and visualize complex engineering and architectural drawings. The course duration and schedule are attached for your perusal.

Thanking You,

(HOD, Mechanical)

HOD
Mechanical Engineering

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SYLLABUS

AutoCAD for Engineering and Design

Total Lecture Periods: 40hrs

Course Objectives:
This course aims to equip students with the skills required to proficiently use AutoCAD for creating technical drawings in engineering and design. Students will learn to draft, model, and visualize designs in 2D and 3D formats, using AutoCAD's advanced tools and features.

Modules and Content:

Module-I: Introduction to AutoCAD [8 periods]
- Overview of AutoCAD
- Basic interface and navigation
- Drawing tools and commands
- Coordinate system in AutoCAD
- Basic 2D drawing techniques

Module-II: Advanced Drawing and Editing Techniques [10 periods]
- Layers, Blocks, and Templates
- Advanced drawing tools (Polyline, Hatch, Spline)
- Editing tools (Move, Rotate, Scale, Trim, Extend)
- Object properties and modification
- Managing large drawing files

Module-III: 3D Modeling and Visualization [10 periods]
- Introduction to 3D modeling
- 3D drawing tools and commands
- Creating and editing 3D objects
- Rendering and visualization techniques
- Creating 3D views and walkthroughs

Module-IV: AutoCAD Applications in Engineering and Design [12 periods]
- AutoCAD in Civil Engineering: Floor plans, Site plans, Structural layouts
- AutoCAD in Mechanical Engineering: Machine components, Assemblies
- AutoCAD in Electrical Engineering: Circuit layouts, Wiring diagrams

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- AutoCAD in Architecture: Building designs, Elevations, Section views
- Real-world case studies of AutoCAD applications

Course Outcomes:
After completing the course, students will be able to:

1. Understand the fundamentals of AutoCAD software and its interface.
2. Apply 2D and 3D drawing techniques to create professional engineering and architectural designs.
3. Use AutoCAD's advanced features to enhance design efficiency and accuracy.
4. Develop and visualize models for engineering and design projects.
5. Work with AutoCAD to solve real-world design problems in various engineering domains.

Evaluation Process:

1. **Attendance:** A minimum of 75% attendance is mandatory.
2. **Assessment:** The course will be assessed through assignments, projects, and a final exam.
3. **Certification:** A certificate will be issued after the successful completion of the course and assessment.

Learning Resources:
Suggested Books:

1. "AutoCAD for Dummies" by Bill Fane and David Byrnes
2. "Mastering AutoCAD 2021 and AutoCAD LT 2021" by Brian C. Benton
3. "AutoCAD 3D Modeling" by Sham Tickoo

Dipti Ranjan Panda

Dipti Ranjan Panda

(Course Instructor)

(HOD, Mechanical)

HOD
Mechanical Engineering

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SCHEDULE

AutoCAD for Engineering and Design

Sl No	Date	Time	Course Content
1	18.09.2021	3:00 PM - 6:00 PM	Introduction to AutoCAD and Basic 2D Drawing Techniques
2	20.09.2021	3:00 PM - 6:00 PM	Advanced Drawing and Editing Techniques
3	21.09.2021	3:00 PM - 6:00 PM	Layers, Blocks, and Templates
4	22.09.2021	3:00 PM - 6:00 PM	Modeling Fundamentals
5	23.09.2021	3:00 PM - 6:00 PM	Editing 3D Models
6	24.09.2021	3:00 PM - 6:00 PM	Rendering and Visualization in AutoCAD
7	25.09.2021	3:00 PM - 6:00 PM	3D Modeling Fundamentals
8	27.09.2021	3:00 PM - 6:00 PM	Creating and Editing 3D Models
9	28.09.2021	3:00 PM - 6:00 PM	Visualization in AutoCAD
10	29.09.2021	3:00 PM - 6:00 PM	Civil Engineering Applications with AutoCAD
11	30.09.2021	3:00 PM - 6:00 PM	Mechanical Engineering Applications
12	01.10.2021	3:00 PM - 6:00 PM	3D Modeling Fundamentals
13	04.10.2021	3:00 PM - 6:00 PM	Creating and Editing 3D Models
14	05.10.2021	5:00 PM - 6:00 PM	Assessment

Diptiranjan Panda

Dipti Ranjan Panda

(Course Instructor)

(HOD, Mechanical)

HOD
Mechanical Engineering

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:14.09.2021

This is to inform all B. Tech students that the department is initiating the course "AutoCAD for Engineering and Design" starting 19.09.2021. All interested students are instructed to register by 18.09.2021.

- Course Name: Mastering Java Programming
- Instructor Name: Dipti Ranjan Panda
- Registration Contact:9437346465

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14/9/21

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(iii) AO
(iv) All Notice Board

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Date: 17.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course " AUTOCAD ".

Respected Sir,

We are going to start a course on " AUTOCAD " from 18.09.2021 and a total of 25 Students have enrolled for this course. This is for your kind information.

Diptiranjan Panda
Dipti Ranjan Panda

(Course Instructor)

(HOD, Mechanical)

HOD
Mechanical Engineering

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:05.10.2021

AUTOCAD
ASSESSMENT

Name Of the Student: Sibasish sethy
Regd No: 1801289286

All Questions Compulsory

Q1: What is the primary function of AutoCAD?
A) Web development B) 2D and 3D design and drafting
C) Video editing D) Database management

Q2: Which coordinate system is used in AutoCAD to define points in a drawing?
A) Polar coordinates B) Cartesian coordinates
C) Cylindrical coordinates D) Spherical coordinates

Q3: Which tool is used to create straight lines in AutoCAD?
A) Polyline B) Spline
C) Hatch D) Trim

Q4: What is the purpose of the 'Layer' feature in AutoCAD?
A) To organize different elements of a drawing B) To increase the drawing size
C) To apply automatic scaling D) To convert 2D drawings into 3D

Q5: Which command is used to move objects in AutoCAD?
A) Rotate B) Scale
C) Move D) Extend

Q6: What is the function of the 'Hatch' command?
A) To create filled patterns in enclosed areas B) To delete objects
C) To change line thickness D) To trim extra parts of a drawing

Q7: In 3D modeling, which tool is used to create a 3D object from a 2D shape?
A) Extrude B) Trim
C) Fillet D) Array

Q8: What is the purpose of rendering in AutoCAD?
A) To create technical drawings B) To apply realistic materials and lighting to 3D models
C) To delete unnecessary lines D) To convert 3D models into 2D drawings

Q9: In which engineering field is AutoCAD used for designing circuit layouts and wiring diagrams?
A) Civil Engineering B) Mechanical Engineering
C) Electrical Engineering D) Architecture

Q10: What is a common application of AutoCAD in architecture?
A) Video rendering B) Structural analysis
C) Floor plans and elevations D) Database management

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: DIPTIRANJAN PANDA **Month/Year:** SEP/2021

Subject Code: **Branch:**

Subject: AutoCAD for Engineering and Design

Sl. No	REGD NO	NAME	18/09	20/09	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09
1	1801289286	SIBASISH SETHY	1	2	3	x	4	5	6	7	8	9
2	1801289302	SOUMYA RANJAN NAYAK	1	2	x	3	4	x	5	6	7	8
3	1801289347	SWAYAM PRAVA PRADHAN	1	2	3	4	5	6	7	8	x	9
4	1921289001	ABANTIKA NAYAK	1	2	3	x	4	5	6	7	8	9
5	1921289002	ABHISEK BEHERA	1	2	3	4	5	6	7	x	8	9
6	1921289003	ABHISHEK GOCHHAYAT	x	1	2	3	4	5	6	7	8	x
7	1921289004	ADITYA ASHUTOSH NARAYAN	1	2	3	4	5	x	6	7	8	9
8	1921289005	ANINDITA SARANGI	1	2	x	3	4	5	6	7	8	9
9	1921289006	ANKITA DAS	1	2	3	4	x	5	6	7	8	9
10	1921289007	BHARATENDU NAYAK	1	2	3	4	5	6	x	7	8	9
11	1921289008	BISWAJIT BISWAL	x	1	2	3	4	5	6	7	8	x
12	1921289009	CHINMAYA BISOI	1	2	3	4	5	6	x	7	8	9
13	1921289010	GOURI RANI	1	2	x	3	4	5	6	7	8	9
14	1921289011	HIMANSU SEKHAR BARIK	x	1	2	3	4	5	6	7	8	9
15	1921289012	MONALISHA PRIYADARSHINI	1	2	3	x	4	5	6	7	8	9
16	1921289013	NIRUTA JENA	1	2	3	4	x	5	6	7	8	9
17	1921289014	PADMAJA GHOSH	1	2	3	4	5	x	6	7	8	9
18	1921289015	SADASIBA SOREN	1	2	3	4	5	6	7	x	8	9
19	1921289016	SARADA PRASAD JENA	1	2	3	4	5	6	7	8	x	9
20	1921289017	SATYA PRATIK PATRA	1	x	2	3	4	5	6	7	8	9
21	1921289018	SHREEBASTAB SWAIN	1	2	3	4	5	6	7	x	8	9
22	1921289019	SOMYA RANI SAHOO	1	2	3	4	5	6	7	8	9	10
23	1921289020	SUBHADARSINI MOHAPATRA	1	x	2	3	4	5	6	7	8	9
24	1921289021	SUBRATA KUMAR JENA	1	2	3	4	5	6	x	7	8	9
25	1921289022	SUSMITA JENA	1	2	3	4	5	6	7	x	8	9
26	1901289025	SUDAN SINGH	1	2	3	4	x	5	6	7	8	9

Diptiranjan Panda
Signature of Teacher

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: DIPTIRANJAN PANDA **Month/Year:** Sep/2021

Subject Code: AutoCAD for Engineering and Design **Branch:**

Subject:

Sl. No	REGD NO	NAME	30/09	01/10	04/10	05/10						
1	1801289286	SIBASISH SETHY	10	11	X	12						
2	1801289302	SOUMYA RANJAN NAYAK	09	10	11	12						
3	1801289347	SWAYAM PRAVA PRADHAN	10	11	12	X						
4	1921289001	ABANTIKA NAYAK	10	11	12	13						
5	1921289002	ABHISEK BEHERA	10	X	11	12						
6	1921289003	ABHISHEK GOCHHAYAT	09	10	11	12						
7	1921289004	ADITYA ASHUTOSH NARAYAN	10	11	12	13						
8	1921289005	ANINDITA SARANGI	10	11	12	X						
9	1921289006	ANKITA DAS	10	11	12	13						
10	1921289007	BHARATENDU NAYAK	X	10	11	12						
11	1921289008	BISWAJIT BISWAL	9	10	X	11						
12	1921289009	CHINMAYA BISOI	10	11	12	13						
13	1921289010	GOURI RANI	10	11	12	13						
14	1921289011	HIMANSU SEKHAR BARIK	10	X	11	12						
15	1921289012	MONALISHA PRIYADARSHINI	10	11	12	13						
16	1921289013	NIRUTA JENA	10	11	12	13						
17	1921289014	PADMAJA GHOSH	10	11	12	X						
18	1921289015	SADASIBA SOREN	10	11	12	13						
19	1921289016	SARADA PRASAD JENA	10	11	12	13						
20	1921289017	SATYA PRATIK PATRA	10	11	12	13						
21	1921289018	SHREEBASTAB SWAIN	X	10	11	12						
22	1921289019	SOMYA RANI SAHOO	X	11	12	13						
23	1921289020	SUBHADARSINI MOHAPATRA	10	11	12	13						
24	1921289021	SUBRATA KUMAR JENA	10	11	12	13						
25	1921289022	SUSMITA JENA	10	11	12	13						
26	1901289025	SUDAN SINGH	10	11	12	13						

Diptiranjan Panda

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:12.09.2021

To,

The principal

Trident Academy of Technology, Bhubaneswar

Sub: Permission to start a certificate course in "Mastering Revit Architecture" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 11.09.2021, we are planning to start an add-on course on "Mastering Revit Architecture" from 18.09.2021 for our B. Tech students. The objective of this course is to provide a strong foundation in Revit Architecture for our students with the necessary skills to develop real-world architectural models. The course duration and schedule are attached for your approval.

Thanking You,

(HOD, Civil Engineering)

HOD
Civil Engineering

ATTESTED

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Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Revit Architecture

Total Lecture Periods: 40 hrs

Course Objectives:

This course is designed to provide students with a comprehensive understanding of Revit Architecture, covering both basic and advanced concepts. Students will gain hands-on experience in architectural modeling, preparing them for industry-level design and planning tasks. The course will also prepare students for real-world projects, competitive exams, and architectural software proficiency.

MODULES

Module-I: Introduction to Revit Architecture [10 periods]

- Overview of Revit and its features
- Setting up the Revit environment
- Understanding the Revit interface
- Basic drawing and editing tools
- Levels and grids

Module-II: Architectural Modeling [10 periods]

- Creating walls, doors, and windows
- Working with floors, ceilings, and roofs
- Stairs, ramps, and railings
- Curtain walls and components

Module-III: Advanced Revit Concepts [10 periods]

- Families and components
- Annotations and detailing
- Schedules and legends
- Rendering and visualization

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Module-IV: Project Work and Collaboration [10 periods]

- Creating sheets and documentation
- Collaboration and work-sharing
- Importing and exporting files
- Final project: Designing a real-world architectural model

Course Outcomes

- CO1: Understand the core concepts of Revit Architecture.
- CO2: Create detailed architectural models using Revit.
- CO3: Utilize advanced Revit tools for efficient design and visualization.
- CO4: Work on architectural projects independently and in a team environment.
- CO5: Generate documentation and presentation sheets for architectural designs.

Evaluation Process

1. Attendance: Minimum 75% attendance is required for successful completion.
2. Qualifying Marks: Minimum 50% marks are required to pass the course.
3. Certification: Certificate will be awarded to students who successfully complete the course and assessment.

Suggested Learning Resources • Books:

1. "Mastering Autodesk Revit Architecture" by James Vandezande
2. "Revit Architecture No Experience Required" by Eric Wing

Biswajit Nayak

Biswajit Nayak

(Course Instructor)

(HOD, Civil Engineering)

HOD
Civil Engineering

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Bhubaneswar-751024

SCHEDULE

Mastering Revit Architecture

Sl No	Date	Time	Course Content
1	18.09.2021	3:00PM-6:00PM	Overview of Revit and its features; Setting up the Revit environment
2	20.09.2021	3:00PM-6:00PM	Understanding the Revit interface; Basic drawing and editing tools
3	21.09.2021	3:00PM-6:00PM	Levels and grids; Creating walls, doors, and windows
4	22.09.2021	3:00PM-6:00PM	Working with floors, ceilings, and roofs
5	23.09.2021	3:00PM-6:00PM	Stairs, ramps, and railings; Curtain walls and components
6	24.09.2021	3:00PM-6:00PM	Families and components; Annotations and detailing
7	25.09.2021	3:00PM-6:00PM	Schedules and legends;
8	27.09.2021	3:00PM-6:00PM	Creating sheets and documentation
9	28.09.2021	3:00PM-6:00PM	Collaboration and work-sharing;
10	29.09.2021	3:00PM-6:00PM	Designing a real-world architectural model
11	30.09.2021	3:00PM-6:00PM	Final project
12	01.10.2021	3:00PM-6:00PM	Rendering and visualization
13	04.10.2021	3:00PM-6:00PM	Importing and exporting files
14	05.10.2021	5:00PM-6:00PM	Assessment

Biswajit Nayak

Biswajit Nayak

(Course Instructor)

(HOD, Civil Engineering)

HOD
Civil Engineering

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:14.09.2021

This is to inform all B. Tech students that the department of CIVIL will start an add-on course on " Mastering Revit Architecture " starting from 19.09.2021. Interested students must register by 18.09.2021. The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Biswajit Nayak
- Registration Contact:7787920623

Principal

14/9/21

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 17.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course " Mastering Revit Architecture ".

Respected Sir,

We are going to start a course on " Mastering Revit Architecture " from 18.09.2021 and a total of 20 Students have enrolled for this course. This is for your kind information.

Biswajit Nayak

Biswajit Nayak

(Course Instructor)

(HOD, Civil Engineering)

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Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:05.10.2021

REVIT ARCHITECURE ASSESSMENT

Name Of the Student: Debasis Panda
Regd No: 1801289107

07/10

All Questions Compulsory

Q1: What is the primary purpose of Revit Architecture?

A) Video editing
B) Building Information Modeling (BIM)
C) Web development
D) Graphic design

Q2: Which of the following is a key feature of Revit?

A) Raster image editing
B) Parametric modeling
C) 2D pixel rendering
D) Page layout designing

Q3: What is a "family" in Revit?

A) A collection of 3D views in a project
B) A group of related elements that define components in a model
C) A set of predefined colors used in a project
D) A method of linking projects together

Q4: What file format is used for Revit project files?

A) .dwg
B) .rvt
C) .pdf
D) .skp

Q5: Which Revit tool is used to create walls in a building model?

A) Extrude
B) Sweep
C) Wall command
D) Array

Q6: What is the function of "Worksets" in Revit?

A) To export files to AutoCAD
B) To create different views of a building
C) To enable multiple users to collaborate on the same model
D) To generate 2D drawings from a 3D model

Q7: What does the "Section View" feature allow in Revit?

A) Viewing the project in 3D
B) Cutting through a building to analyze interior details
C) Applying material textures to objects
D) Exporting the project as an image

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Q8: Which component is used to create doors and windows in Revit?

A) Model line
B) System families
C) Annotation tools
D) Structural elements

Q9: What is the purpose of the "Phases" feature in Revit?

A) To control the visibility of elements in different stages of a project
B) To create different versions of a model
C) To animate the building design
D) To merge multiple project files

Q10: What is the function of "Schedules" in Revit?

A) To manage project timelines
B) To create tables of project data, such as materials and quantities
C) To set automatic reminders for updates
D) To control lighting in render views

Biswajit Nayak

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Biswajit Nayak **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: Mastering Revit Architecture

Sl. No	REGD NO	NAME	18/09	20/09	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09
1	1801289104	DEBABRATA DEHURY	1	2	3	X	4	5	6	7	8	9
2	1801289106	DEBASISH PANDA	1	2	3	4	5	6	7	8	9	10
3	1801289107	DEBASISH SWAIN	1	2	3	4	X	5	6	7	8	9
4	1801289114	DHIRAJ KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
5	1801289115	DIBYA BHARATI DAS	1	2	3	4	5	6	7	8	9	10
6	1801289117	DIBYAPRAKASH PRUSTY	1	2	3	4	X	5	X	6	7	8
7	1801289118	DIBYARANJAN BARIK	1	2	X	3	4	5	6	7	8	9
8	1801289120	DIKSHA PRASAD	1	2	3	4	5	6	7	8	9	10
9	1801289121	DINESH JENA	1	2	3	4	5	6	7	8	9	10
10	1801289123	DIPANSHU ROUTRAY	1	2	3	4	5	6	X	7	8	9
11	1801289125	DURGASISH MISHRA	1	2	3	4	X	5	6	7	8	9
12	1801289128	GANESH SOREN	1	2	3	4	5	X	6	7	8	9
13	1801289129	GAURIPRASAD LENKA	1	2	3	4	5	6	X	7	8	9
14	1801289132	GYANAJIT DAS	1	2	3	4	5	6	7	X	8	9
15	1801289134	HEEM ANANYA TANTI	1	2	3	4	5	6	7	8	9	10
16	1801289137	HITESH KUMAR MAHANTA	1	2	3	4	5	6	7	8	9	10
17	1801289139	ITISHREE DAS	1	2	3	4	5	6	7	8	9	10
18	1801289140	JAGAN MOHAPATRA	1	2	X	3	4	5	6	7	8	9
19	1801289141	JAGAN MOHARANA	1	2	3	4	X	5	6	7	8	9
20	1801289142	JAYAKRUSHNA ROUT	1	X	2	3	4	5	6	7	8	9

Biswajit Nayak

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Biswajit Nayak **Month/Year:** 09/21

Subject Code: **Branch:**

Subject: Mastering Revit Architecture

Sl. No	REGD NO	NAME	30/09	01/10	04/10	05/10						
1	1801289104	DEBABRATA DEHURY	10	11	13	14						
2	1801289106	DEBASISH PANDA	11	12	13	14						
3	1801289107	DEBASISH SWAIN	10	11	12	13						
4	1801289114	DHIRAJ KUMAR SINGH	11	12	13	14						
5	1801289115	DIBYA BHARATI DAS	11	12	13	14						
6	1801289117	DIBYAPRAKASH PRUSTY	09	10	11	12						
7	1801289118	DIBYARANJAN BARIK	10	11	12	13						
8	1801289120	DIKSHA PRASAD	11	12	13	14						
9	1801289121	DINESH JENA	11	12	13	14						
10	1801289123	DIPANSHU ROUTRAY	10	11	12	13						
11	1801289125	DURGASISH MISHRA	10	11	12	13						
12	1801289128	GANESH SOREN	10	11	12	13						
13	1801289129	GAURIPRASAD LENKA	10	11	12	13						
14	1801289132	GYANAJIT DAS	10	11	12	13						
15	1801289134	HEEM ANANYA TANTI	11	12	13	14						
16	1801289137	HITESH KUMAR MAHANTA	11	12	13	14						
17	1801289139	ITISHREE DAS	11	12	13	14						
18	1801289140	JAGAN MOHAPATRA	10	11	12	13						
19	1801289141	JAGAN MOHARANA	10	X	11	12						
20	1801289142	JAYAKRUSHNA ROUT	10	11	12	13						

Biswajit Nayak
Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:03.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to Start Certificate Course in "STAAD PRO V8i for Structural Analysis and Design" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 02.09.2021, we are planning to start a course on "STAAD PRO V8i for Structural Analysis and Design" from 13.09.2021. The objective of this course is to provide students with a comprehensive understanding of STAAD PRO V8i software, which is a leading tool for structural analysis and design in civil engineering. This course will equip students with the knowledge and skills required to use STAAD PRO for analyzing and designing complex structural systems in real-world engineering projects. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, EEE)

HOD
Electrical & Electronics Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

STAAD PRO V8i for Structural Analysis and Design

Course Overview: Total Lecture Periods: 40hrs

Course Objectives:

This course aims to provide students with the necessary skills to effectively use STAAD PRO V8i for performing structural analysis and design. Students will learn how to model, analyze, and design structures using this software and apply these skills to practical civil engineering problems.

Modules and Content:

Module-I: Introduction to STAAD PRO V8i [10 periods]
- Overview of STAAD PRO V8i and its interface
- Basic functions and capabilities of the software
- Coordinate system and geometry setup in STAAD PRO
- Types of structures that can be analyzed with STAAD PRO
- Introduction to modeling and analysis concepts in STAAD PRO

Module-II: Structural Modeling and Analysis [10 periods]
- Creating structural models (Beams, Frames, Slabs, and Plates)
- Application of loads (Dead Load, Live Load, Wind Load, Earthquake Load)
- Boundary conditions and constraints
- Analysis types (Static, Dynamic, Linear, Non-Linear)
- Interpreting and understanding analysis results

Module-III: Structural Design with STAAD PRO V8i [10 periods]
- Design of Steel Structures: Beams, Columns, and Connections
- Concrete Structures: Slabs, Beams, Columns, and Foundations
- Design of Foundations (Shallow and Deep)
- Optimization and safety factors in design
- Designing for various materials using STAAD PRO V8i

Module-IV: Advanced Features of STAAD PRO V8i and Applications [10 periods]
- Parametric design and load combinations
- Dynamic analysis: Earthquake, Wind Load, and Vibration analysis
- STAAD Foundation Pro for foundation design
- STAAD PRO and integration with other software tools (AutoCAD, Revit)
- Real-world case studies and practical applications in structural engineering

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Course Outcomes:
After completing the course, students will be able to:

1. Understand the fundamentals of STAAD PRO V8i and its interface.
2. Create accurate structural models and perform load analysis.
3. Apply STAAD PRO for designing both steel and concrete structures.
4. Perform dynamic analysis and incorporate real-world loading conditions.
5. Integrate STAAD PRO with other engineering tools to complete structural design projects.

Evaluation Process:

1. **Attendance:** A minimum of 75% attendance is mandatory.
2. **Assessment:** The course will be assessed through assignments, practical projects, and a final exam.
3. **Certification:** A certificate will be issued after the successful completion of the course and assessment.

Learning Resources:
Suggested Books:

1. "STAAD Pro: Structural Analysis and Design" by S. S. Bhavikatti
2. "Practical Guide to STAAD Pro" by S. K. Gupta
3. "STAAD Pro Tutorials: A Comprehensive Guide" by K. P. S. V. R. S. Prasad

Lohit Kumar Sahoo
(Course Instructor)

(HOD, EEE)
HOD
Electrical & Electronics Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

STAAD PRO V8i for Structural Analysis and Design

Sl No	Date	Time	Course Content
1	13.09.2021	3:00 PM-6:00 PM	Overview, interface, and basic functions.
2	14.09.2021	3:00 PM-6:00 PM	Structure modeling fundamentals.
3	15.09.2021	3:00 PM-6:00 PM	Beams, frames, slabs, plates, and other structures.
4	16.09.2021	3:00 PM-6:00 PM	Understanding basic modeling and analysis techniques.
5	17.09.2021	3:00 PM-6:00 PM	Dead, live, wind, and earthquake loads.
6	18.09.2021	3:00 PM-6:00 PM	Static, dynamic, linear analysis.
7	20.09.2021	3:00 PM-6:00 PM	nonlinear analysis
8	21.09.2021	3:00 PM-6:00 PM	Beams, columns, and connections.
9	22.09.2021	3:00 PM-6:00 PM	Slabs, beams, columns, and foundations.
10	23.09.2021	3:00 PM-6:00 PM	Parametric design
11	24.09.2021	3:00 PM-6:00 PM	Dynamic analysis, and load combinations.
12	25.09.2021	3:00 PM-6:00 PM	real-world case studies.

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Sl No	Date	Time	Course Content
13	27.09.2021	3:00 PM-6:00 PM	STAAD Foundation Pro, AutoCAD/Revit integration
14	28.09.2021	5:00 PM-6:00 PM	Assessment

Lohit Kumar Sahoo
(Course Instructor)

(HOD, EEE)

HOD
Electrical & Electronics Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:06.09.2021

This is to inform all B. Tech students that the department of EEE will start an add-on course on "STAAD PRO V8i for Structural Analysis and Design" starting from 13.09. 2021. All interested students are instructed to register on or before 10.09. 2021.The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Lohit Kumar Sahoo
- Registration Contact:9938793380

Principal

06/09/21

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 11.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar,

Subject: Number of Students Enrolled for the Addon Course " STAAD PRO V8i".

Respected Sir,

We are going to start a course on " STAAD PRO V8i " from 13.09.2021 and a total of 20 Students have enrolled for this course. This is for your kind information.

Lohit Kumar Sahoo
(Course Instructor)

(HOD, EEE)
HOD
Electrical & Electronics Engg.

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Trident Academy of Technology
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:28.09.2021

STAAD PRO V8i
ASSESSMENT

Name Of the Student: Debasish Panda
Regd No: 1801289106

10/10

All Questions Compulsory

Q1: What is the primary purpose of STAAD PRO V8i?
A) Video editing B) Structural analysis and design
C) Database management D) Image processing

Q2: Which of the following structures can be analyzed using STAAD PRO V8i?
A) Bridges B) Buildings
C) Towers D) All of the above

Q3: What type of load does NOT typically apply to a structural analysis?
A) Dead load B) Live load
C) Data load D) Wind load

Q4: What is the function of boundary conditions in STAAD PRO?
A) To define material properties B) To specify support constraints and fixities
C) To create 3D models D) To generate reinforcement details

Q5: Which analysis method is NOT supported in STAAD PRO V8i?
A) Static analysis B) Dynamic analysis
C) Thermal analysis D) Chemical analysis

Q6: What does STAAD Foundation Pro specialize in?
A) Electrical circuit analysis B) Foundation design and analysis
C) Image processing D) Video rendering

Q7: Which of the following is NOT a material used in STAAD PRO V8i for design?
A) Concrete B) Steel
C) Wood D) Plastic

Q8: What does the term "parametric design" refer to in STAAD PRO?
A) Designing using predefined templates B) Using variable-driven modeling for optimization
C) Drawing manual sketches D) Exporting models to PDF format

Q9: How does STAAD PRO integrate with AutoCAD and Revit?
A) By importing and exporting design models B) By editing video files
C) By modifying animation sequences D) By adding sound effects

Q10: What is one of the key benefits of using STAAD PRO in structural engineering?
A) Enhances graphic design B) Provides accurate and optimized structural analysis
C) Improves video rendering speed D) Manages company payroll

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Lohit Kumar Sahoo **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: STAAD PRO V8I for Structural Analysis and Design

Sl. No	REGD NO	NAME	13/09	14/09	15/09	16/09	17/09	18/09	20/09	21/09	22/09	23/09
1	1801289104	DEBABRATA DEHURY	1	2	3	4	X	5	6	7	8	9
2	1801289106	DEBASISH PANDA	1	2	X	3	4	5	6	7	8	9
3	1801289107	DEBASISH SWAIN	1	2	3	4	5	X	6	7	8	9
4	1801289114	DHIRAJ KUMAR SINGH	1	2	X	3	4	5	6	7	8	9
5	1801289115	DIBYA BHARATI DAS	X	1	2	3	4	5	6	7	X	8
6	1801289117	DIBYAPRAKASH PRUSTY	1	2	3	X	4	5	6	X	7	8
7	1801289118	DIBYARANJAN BARIK	1	2	3	4	5	X	6	7	X	8
8	1801289120	DIKSHA PRASAD	1	2	3	4	X	5	6	7	8	9
9	1801289121	DINESH JENA	1	X	2	3	4	5	X	6	7	8
10	1801289123	DIPANSHU ROUTRAY	1	2	3	X	4	5	6	7	8	9
11	1801289125	DURGASISH MISHRA	1	2	X	3	4	5	X	6	7	8
12	1801289128	GANESH SOREN	1	2	3	4	5	6	7	X	8	X
13	1801289129	GAURIPRASAD LENKA	X	1	2	3	4	5	6	7	8	9
14	1801289132	GYANAJIT DAS	1	2	3	4	5	6	X	7	8	9
15	1801289134	HEEM ANANYA TANTI	1	2	X	3	4	5	6	7	8	9
16	1801289137	HITESH KUMAR MAHANTA	1	X	2	3	4	5	6	7	8	9
17	1801289139	ITISHREE DAS	1	2	3	4	5	6	7	8	X	9
18	1801289140	JAGAN MOHAPATRA	1	2	3	4	5	6	7	X	8	9
19	1801289141	JAGAN MOHARANA	1	2	3	4	5	6	7	8	9	X
20	1801289142	JAYAKRUSHNA ROUT	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology
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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Lohit Kumar Sahoo **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: STAAD PRO V8i for Structural Analysis and Design

Sl. No	REGD NO	NAME	24/09	25/09	27/09	28/09						
1	1801289104	DEBABRATA DEHURY	10	11	12	13						
2	1801289106	DEBASISH PANDA	X	10	11	12						
3	1801289107	DEBASISH SWAIN	10	11	12	13						
4	1801289114	DHIRAJ KUMAR SINGH	10	11	12	13						
5	1801289115	DIBYA BHARATI DAS	9	10	11	12						
6	1801289117	DIBYAPRAKASH PRUSTY	9	10	X	11						
7	1801289118	DIBYARANJAN BARIK	9	10	11	12						
8	1801289120	DIKSHA PRASAD	10	X	11	12						
9	1801289121	DINESH JENA	X	9	10	11						
10	1801289123	DIPANSHU ROUTRAY	10	11	12	X						
11	1801289125	DURGASISH MISHRA	9	10	11	X						
12	1801289128	GANESH SOREN	9	10	11	12						
13	1801289129	GAURIPRASAD LENKA	10	11	12	13						
14	1801289132	GYANAJIT DAS	10	11	X	12						
15	1801289134	HEEM ANANYA TANTI	10	11	12	13						
16	1801289137	HITESH KUMAR MAHANTA	10	11	12	13						
17	1801289139	ITISHREE DAS	10	11	12	13						
18	1801289140	JAGAN MOHAPATRA	10	11	12	13						
19	1801289141	JAGAN MOHARANA	10	11	12	13						
20	1801289142	JAYAKRUSHNA ROUT	11	X	12	13						

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 08.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Mastering Power Plant Technology (PPT) through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 07.09.2021, we are planning to start an add-on course on "Mastering Power Plant Technology (PPT) through Guided Problem Solving" from 21.09.2021. The primary objective of this course is to provide our students with practical knowledge of power plant operations, thermal cycles, and plant optimization techniques. The course duration and schedule are attached for your kind approval.

Thanking You

(HOD, EEE)

HOD
Electrical & Electronics Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Power Plant Technology (PPT)

Course Duration:40 hrs

Course Objectives:

The goal of this course is to enhance students understanding of power plant operations and technology, focusing on thermal power generation, plant efficiency, and optimization. It will also involve real-world problem-solving scenarios, using simulation tools to analyze power plant systems and improve their performance.

Course Content:

MODULE-I: Introduction to Power Plant Technology [10 periods]

- Overview of Power Plant Operations
- Types of Power Plants: Thermal, Hydro, Nuclear
- Working Principles of Thermal Power Plants
- Basic Components: Boilers, Turbines, Generators, and Cooling Systems

MODULE-II: Power Generation Cycles and Efficiency [10 periods]

- Rankine Cycle and Ideal Power Plant Efficiency
- Superheating and Regeneration Techniques
- Heat Rate and Plant Efficiency Analysis
- Understanding Steam Flow and Heat Recovery Systems

MODULE-III: Power Plant Control and Automation [10 periods]

- Control Systems in Power Plants
- Instrumentation and Monitoring Techniques
- Load Dispatching and Grid Integration
- Automation of Boiler and Turbine Operations

MODULE-IV: Advanced Topics and Plant Optimization [10 periods]

- Thermal Power Plant Efficiency Improvement Techniques
- Renewable Energy Integration in Power Plants

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Trident Academy of Technology
Bhubaneswar-751024

- Plant Operation and Maintenance: Challenges and Solutions
- Case Studies: Optimization and Fault Analysis in Real-world Plants

Course Outcomes:

Upon successful completion of the course, students will be able to:

- **CO1:** Understand the operational aspects and components of thermal power plants.
- **CO2:** Analyze and optimize thermal cycles for improved efficiency.
- **CO3:** Work with power plant control systems and monitoring tools.
- **CO4:** Apply advanced techniques to optimize plant operations and maintenance.
- **CO5:** Address real-world challenges in power plant management.
- **CO6:** Collaborate on group projects and solve plant optimization problems.

Evaluation Process:

1. **Attendance:** Minimum 75% attendance is mandatory.
2. **Assessment:** Combination of assignments, quizzes, practical evaluations, and a final exam.
3. **Certification:** Certificate awarded after successful completion of course and assessment.

Suggested Books & Learning Resources:

1. "Power Plant Engineering" by P.K. Nag
2. "Introduction to Power Plant Technology" by L.V. Wakil

Lohit Kumar Sahoo
(Course Instructor)

(HOD, EEE)

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SCHEDULE

Mastering Power Plant Technology (PPT)

Sl No	Date	Time	Course Content
1	21.09. 2021	3:00 PM - 6:00 PM	Introduction to Power Plant Technology
2	22.09. 2021	3:00 PM - 6:00 PM	Types of Power Plants: Thermal, Hydro, Nuclear Working Principles of Thermal Power Plants
3	23.09. 2021	3:00 PM - 6:00 PM	Basic Components: Boilers, Turbines, Generators, and Cooling Systems
4	24.09. 2021	3:00 PM - 6:00 PM	Rankine Cycle and Ideal Power Plant Efficiency
5	25.09. 2021	3:00 PM - 6:00 PM	Superheating and Regeneration Techniques Heat Rate and Plant Efficiency Analysis
6	27.09. 2021	3:00 PM - 6:00 PM	Understanding Steam Flow and Heat Recovery Systems
7	28.09. 2021	3:00 PM - 6:00 PM	Power Plants Instrumentation and Monitoring Techniques
8	29.09. 2021	3:00 PM - 6:00 PM	Load Dispatching
9	30.09. 2021	3:00 PM - 6:00 PM	Thermal Power Plant Efficiency Improvement Techniques
10	01.10. 2021	3:00 PM - 6:00 PM	Grid Integration

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Sl No	Date	Time	Course Content
11	04.10. 2021	3:00 PM - 6:00 PM	Integration in Power Plants
12	05.10. 2021	3:00 PM - 6:00 PM	Grid Integration
13	06.10.2021	3:00 PM - 6:00 PM	Renewable Energy
14	07.10.2021	5:00 PM - 6:00 PM	Assessment

Lohit Kumar Sahoo
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:12.09.2021

This is to inform all students of B. Tech that the department of EEE will initiate a course on "Mastering Power Plant Technology (PPT) through Guided Problem Solving" starting from 21.09.2021. All interested students are required to register on or before 20.09.2021.

Course Name: Mastering Power Plant Technology through Guided Problem Solving
Instructor Name: Lohit Kumar Sahoo
Registration Contact:9938793380

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Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Date: 15.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course " Mastering Power Plant Technology (PPT) through Guided Problem Solving ".

Respected Sir,

We are going to start a course on " Mastering Power Plant Technology (PPT) through Guided Problem Solving " from 21.09.2021 and a total of 448 Students have enrolled for this course. This is for your kind information.

Lohit Kumar Sahoo
(Course Instructor)

(HOD, EEE)
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:01.10.2021

PPT
ASSESSMENT

Name Of the Student: SUDIP SAHU
Regd No: 1801289327

All Questions Compulsory

Q1: Which of the following is NOT a type of power plant?
A) Thermal power plant B) Hydro power plant
C) Nuclear power plant D) Automobile power plant

Q2: What is the primary function of a boiler in a thermal power plant?
A) Convert mechanical energy to electrical energy B) Burn coal for direct energy production
C) Heat water to produce steam D) Store electrical energy

Q3: The Rankine cycle is primarily used for which type of power generation?
A) Nuclear power B) Hydro power
C) Thermal power D) Solar power

Q4: Which component is responsible for converting steam energy into mechanical energy?
A) Boiler B) Condenser
C) Generator D) Turbine

Q5: What is the purpose of superheating in a thermal power plant?
A) Increase steam temperature for higher efficiency B) Reduce the temperature of exhaust gases
C) Store extra heat for future use D) Convert steam back into water

Q6: Which system is used to monitor and control power plant operations?
A) Load dispatching system B) Power grid system
C) Control and instrumentation system D) Steam recycling system

Q7: In a nuclear power plant, which element is primarily used as fuel?
A) Uranium B) Coal
C) Natural gas D) Diesel

Q8: What is one major advantage of hydro power plants?
A) High fuel consumption B) Low operational costs and renewable energy source
C) High dependency on fossil fuels D) Requires high maintenance costs

Q9: What role does automation play in modern power plants?
A) Reduces human intervention and increases efficiency B) Increases the need for manual monitoring
C) Slows down power generation processes D) Eliminates the need for grid integration

Q10: What is the main challenge in integrating renewable energy into power plants?
A) Renewable energy is always available B) Unpredictability and fluctuation of energy sources
C) High fuel requirements D) Increased pollution levels

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Attendance Sheet

Name of the Teacher: BRJ Sir **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: Mastering Power Plant Technology

Sl. No	REGD NO	NAME	21/09/21	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
1	1801289001	ABANISH MUDULI	1	2	3	4	5	X	6	7	8	9
2	1801289002	ABDUL AABID KHAN	1	2	3	4	5	6	7	8	9	10
3	1801289003	ABHIJEET MOHANTY	1	2	3	4	5	6	7	8	9	10
4	1801289010	ABHISHEK KUMAR	1	2	3	4	5	X	6	7	8	9
5	1801289016	ADARSH DHIR	1	2	3	4	5	6	7	8	9	10
6	1801289017	ADITYA ASHUTOSH	1	2	3	4	5	6	7	8	9	10
7	1801289020	AKANKSHA DAS	1	2	3	4	5	6	7	8	9	10
8	1801289021	AKASH KUMAR	1	2	3	4	5	6	7	8	9	10
9	1801289026	AMAN MOHANTY	1	2	3	4	5	X	6	7	8	9
10	1801289027	AMAN RAJ	1	2	3	4	5	6	7	8	X	9
11	1801289031	AMIT GIRI	1	2	3	4	5	6	7	8	9	10
12	1801289033	AMIT KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
13	1801289034	AMITABH TARENIA	1	2	3	4	5	6	7	8	X	X
14	1801289035	AMIYA PALAI	1	2	3	X	4	5	6	7	8	9
15	1801289037	AMLAN KUMAR NANDY	1	2	3	X	4	5	6	7	8	9
16	1801289038	ANANYA DASH	1	2	3	4	5	6	7	8	X	9
17	1801289039	ANANYA PRIYADARSHINI MANTRY	1	2	3	4	5	6	7	8	9	10
18	1801289042	ANIMESH SAHOO	1	2	3	4	5	6	7	8	X	9
19	1801289043	ANJALI KUMARI	1	2	3	4	5	6	7	8	9	10
20	1801289044	ANKIT BHUYAN	1	2	3	4	5	X	6	7	8	9
21	1801289045	ANKITA BHUYAN	1	2	3	4	5	X	6	7	8	9
22	1801289051	ANKITA SINGH	1	2	3	4	5	6	7	8	9	10
23	1801289058	ARCH SATPATHY	1	2	3	4	5	6	7	X	8	9
24	1801289060	ARKASARATHI DAS	1	2	3	4	5	6	7	8	9	10
25	1801289061	ARPIT ABHISHEK MOHANTY	1	2	3	4	5	6	7	X	8	9
26	1801289066	ASHISH KUMAR JENA	1	2	3	4	5	6	7	X	8	9
27	1801289067	ASHISH KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
28	1801289068	ASHISH RANJAN	1	2	3	4	5	6	7	8	9	X
29	1801289069	ASHRIBAD BEHERA	1	2	3	4	5	6	7	8	X	9
30	1801289070	ASHUTOSH JENA	1	2	3	4	5	6	7	X	8	9
31	1801289073	AURPITA SWAIN	1	2	3	4	5	6	7	8	9	10
32	1801289074	AVI KUMAR	1	2	3	4	5	X	6	7	8	9

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Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
33	1801289075	AYASKANTA BEHERA	1	2	3	4	5	6	7	8	9	10
34	1801289076	AYESHKANT LENKA	1	2	3	4	5	6	7	8	X	9
35	1801289078	AYUSH PANDEY	1	2	3	4	5	6	7	8	X	9
36	1801289079	AYUSH SHARMA	1	2	3	4	5	6	7	8	9	10
37	1801289082	BAISALI DAS	1	2	X	3	4	5	6	7	8	9
38	1801289085	BHABANI SHANKAR NAYAK	1	2	3	4	5	6	7	8	9	10
39	1801289087	BINIT JAISWAL	1	2	X	3	4	5	X	6	7	8
40	1801289088	BISHAL ACHARYA	1	2	3	4	5	6	7	8	9	10
41	1801289090	BISHAL MALLICK	1	2	3	4	5	6	7	8	9	10
42	1801289091	BISHNU PRASAD PANDA	1	2	3	4	5	6	7	8	9	10
43	1801289096	BISWAJIT SAHOO	1	2	X	3	4	5	6	7	8	9
44	1801289098	CHANDRA SHEKHAR JENAMONI	1	2	3	4	5	6	7	8	9	10
45	1801289099	CHANDRAPRAVA MOHANTY	1	2	3	4	5	6	7	8	9	10
46	1801289100	CHINMAYA SAMANTARA	1	2	3	4	5	6	7	8	9	10
47	1801289101	CHIRANJIBEE MOHAPATRA	1	2	3	4	5	6	7	8	9	10
48	1801289102	CHITTA RANJAN BISWAL	1	2	3	4	5	6	7	8	X	9
49	1801289103	DANISH QUAMAR KHAN	1	2	3	4	5	6	7	8	9	10
50	1801289104	DEBABRATA DEHURY	1	2	3	4	5	6	7	8	9	10
51	1801289106	DEBASISH PANDA	1	2	3	4	5	6	7	X	8	9
52	1801289107	DEBASISH SWAIN	1	2	3	4	5	6	7	X	8	9
53	1801289114	DHIRAJ KUMAR SINGH	1	2	3	4	5	6	7	8	X	9
54	1801289115	DIBYA BHARATI DAS	1	2	3	4	5	6	X	7	8	9
55	1801289117	DIBYAPRAKASH PRUSTY	1	2	3	4	5	6	7	8	9	10
56	1801289118	DIBYARANJAN BARIK	1	2	X	3	4	5	6	7	8	9
57	1801289120	DIKSHA PRASAD	1	2	X	3	4	5	6	7	8	9
58	1801289121	DINESH JENA	1	2	X	3	4	5	6	7	8	X
59	1801289123	DIPANSHU ROUTRAY	1	2	3	4	5	6	7	8	9	10
60	1801289125	DURGASISH MISHRA	1	2	3	4	5	X	6	7	8	9
61	1801289128	GANESH SOREN	1	2	3	4	5	6	7	8	9	X
62	1801289129	GAURIPRASAD LENKA	1	2	3	4	5	6	7	8	9	10
63	1801289132	GYANAJIT DAS	1	2	3	4	5	X	6	7	8	9
64	1801289134	HEEM ANANYA TANTI	1	2	3	4	5	6	7	8	9	X
65	1801289137	HITESH KUMAR MAHANTA	1	X	2	3	4	5	6	7	8	9
66	1801289139	ITISHREE DAS	1	2	3	4	5	6	7	8	9	10
67	1801289140	JAGAN MOHAPATRA	1	X	2	3	4	5	6	7	8	9
68	1801289141	JAGAN MOHARANA	1	X	2	3	4	5	6	7	8	9
69	1801289142	JAYAKRUSHNA ROUT	1	2	3	4	5	6	7	8	9	10
70	1801289145	JINGYANSHU RANJAN RAUTARAY	1	2	3	4	5	6	7	8	9	10
71	1801289146	JOTIRAJ MAJHI	1	2	3	4	5	6	7	8	9	10
72	1801289148	JYOTI PRAKASH CHIRANJIV	1	2	3	4	5	6	7	8	9	10

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Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
73	1801289149	JYOTI PRAVA NAYAK	1	2	3	4	5	6	7	8	9	10
74	1801289150	JYOTI RANJAN SAHOO	1	2	3	4	5	6	7	X	8	9
75	1801289152	KESHAV PANDEY	1	2	3	4	5	6	7	X	8	9
76	1801289153	KHYATI CHOUBEY	1	2	X	3	4	5	6	7	8	9
77	1801289156	KULDEEP KUMAR SINGH	1	2	1	3	4	5	6	7	8	9
78	1801289159	KUMAR GOURAV	1	2	3	4	5	6	7	8	9	10
79	1801289160	LAL KRISHNA NAYAK	1	2	3	4	5	6	7	8	9	10
80	1801289161	LIPSA DASH	1	X	2	3	4	5	6	7	8	9
81	1801289162	LOPAMUDRA SAHOO	1	X	2	3	4	5	6	7	8	9
82	1801289163	LOPAMUDRA SWAIN	1	2	3	4	5	6	7	8	9	10
83	1801289164	LUSHNA SAMANTARAY	1	2	3	4	5	6	7	8	9	X
84	1801289165	MANAS RANJAN PATEL	1	2	3	4	5	6	7	8	9	X
85	1801289167	MANASHI MAJHI	1	2	3	4	5	6	7	X	8	9
86	1801289171	MANISHA KHATUA	1	X	2	3	4	5	6	7	8	9
87	1801289174	MEDHA SINGH	1	2	3	4	5	6	7	8	9	10
88	1801289177	MOHAMMAD ABDUL AZIZ	X	1	2	3	4	5	6	7	8	9
89	1801289178	MOHAMMAD AMMAN KHAN	X	1	2	3	4	5	6	7	8	9
90	1801289182	MOHAN P MANDAL	X	1	2	3	4	5	6	7	8	X
91	1801289183	MONALISA NAG	1	2	3	4	5	6	7	8	9	X
92	1801289185	NANDISH MOHANTY	1	2	3	4	5	6	7	8	9	10
93	1801289186	NEHA SAMANTRAY	1	2	3	4	5	6	7	8	9	10
94	1801289187	NIHARIKA DAS	1	2	3	4	5	6	7	8	X	9
95	1801289189	NIKHIL KUMAR BISOI	1	2	3	4	5	6	7	8	9	10
96	1801289190	NIKHILESH MISHRA	X	1	2	3	4	5	6	7	8	9
97	1801289192	NISHA CHOUDHARY	1	2	3	4	5	6	7	8	9	10
98	1801289194	NITISH KUMAR SWAIN	1	2	3	4	5	6	7	8	X	9
99	1801289197	OMPRAKASH NITYANAND SAHOO	1	X	2	3	4	5	6	7	8	9
100	1801289198	P. SONIA PATRO	1	2	3	4	5	6	7	8	9	10
101	1801289200	PALLAVI PATTNAIK	1	2	3	4	5	6	7	8	X	9
102	1801289201	PAWAN KR SHAH	1	2	3	4	5	6	7	8	9	10
103	1801289202	PIYASHREE BISWAS	1	2	3	4	5	6	7	8	X	9
104	1801289203	PRABHASH RANJAN RAUT	1	2	3	4	5	6	7	X	8	9
105	1801289205	PRAGATIKA SATAPATHY	1	2	X	3	4	5	6	7	8	9
106	1801289206	PRANAT PRADHAN	1	2	2	4	5	6	7	8	9	10
107	1801289210	PRATIKSHYA DAS	1	2	3	4	5	6	7	8	9	X
108	1801289212	PRATYUSH KUMAR SATAPATHY	1	2	3	4	9	6	7	8	9	10
109	1801289213	PRATYUSH NANDA	1	2	3	4	5	6	7	8	9	10
110	1801289216	PRAVUDATTA AMIYA CHANDRA NAYAK	1	2	3	4	5	6	7	8	9	X
111	1801289219	PRIYANKA NANDA	X	1	X	2	3	4	5	6	7	8
112	1801289220	PUMMI PRAKASH	1	2	3	4	5	6	8	8	9	10

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Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
113	1801289221	RAGHU NANDAN PANDA	1	2	3	4	5	6	7	8	X	9
114	1801289223	RAHUL KISHOR PARIDA	1	2	3	4	5	X	6	7	08	9
115	1801289226	RAHUL MAHATO	1	2	3	4	5	6	7	X	8	9
116	1801289227	RAJ KISHORE SAHOO	1	2	3	4	5	6	7	X	8	9
117	1801289230	RAJASHREE SAHOO	1	2	3	4	5	6	7	8	9	10
118	1801289231	RAJAT KUMAR PATI	1	2	X	3	4	5	6	7	8	9
119	1801289233	RAJESH RANJAN	1	2	3	4	5	6	7	8	9	10
120	1801289234	RANJIT KUMAR GOUDA	1	2	3	4	5	6	7	X	8	9
121	1801289235	RANJIT KUMAR SAHU	1	2	3	4	5	X	6	7	8	9
122	1801289236	RASESH DAS	1	2	3	4	5	6	7	8	9	10
123	1801289237	RATIKANTA ROUT	1	X	2	3	4	5	6	7	8	9
124	1801289241	RISHAV KUMAR SINGH	1	X	2	3	4	5	6	7	8	9
125	1801289243	ROHIT PANDA	1	2	3	4	5	6	7	8	X	9
126	1801289245	RUDRADEV PANDA	1	2	3	4	5	X	6	7	8	9
127	1801289246	RUDRANARAYAN DHAL	1	2	3	4	5	X	6	7	8	9
128	1801289247	S SAI SIVANEE	1	X	2	3	4	5	6	7	8	9
129	1801289251	SAI SAMIKSHYA MAHAPATRA	1	2	3	4	5	6	7	8	9	10
130	1801289254	SAKSHI BHARDWAJ	1	2	3	4	5	6	7	8	9	10
131	1801289257	SANDEEP KUMAR RANA	1	2	3	4	5	6	7	8	9	10
132	1801289259	SANKET BISHOI	X	1	2	3	4	5	6	7	8	9
133	1801289264	SASHIKANTA SIAL	X	1	2	3	4	5	6	7	8	9
134	1801289265	SATABDI MILAN BEURA	1	2	3	4	5	6	7	8	9	10
135	1801289266	SATYA PRAKASH MOHANTY	1	2	3	4	5	6	7	8	9	10
136	1801289267	SATYA RANJAN SAHOO	1	2	3	4	5	6	7	X	8	9
137	1801289268	SATYABRATA OJHA	1	2	3	4	5	6	7	X	8	9
138	1801289270	SATYASUMAN DASH	1	2	3	4	5	6	7	8	9	10
139	1801289271	SHAHJADA E SAQUALAIN	1	2	3	4	5	6	7	8	9	10
400	1801289272	SHAKTI PRASAD SAHOO	1	2	3	4	5	6	7	8	9	10
141	1801289274	SHIBA PRASAD MOHANTA	1	2	3	4	5	6	X	7	8	9
142	1801289277	SHOURYA KUMAR JHA	1	2	3	4	5	6	X	7	8	9
143	1801289280	SHUBHAM KESHRI	1	2	3	4	5	6	7	8	9	10
144	1801289281	SHUBHAM KUMAR	1	2	3	4	5	6	7	8	9	10
145	1801289284	SHUBHAM MISHRA	1	2	X	3	4	5	6	7	8	9
146	1801289290	SIPRA SAHOO	1	2	3	4	5	6	7	8	9	10
147	1801289291	SK NIZAMUDDIN	1	2	3	4	5	6	7	8	9	10
148	1801289292	SMRUTI DAS	1	2	3	4	5	6	7	8	9	10
149	1801289293	SMRUTI RANJAN KHUNTIA	1	2	3	4	5	6	7	8	9	10
150	1801289295	SOBHAN DASH	1	2	X	3	4	5	6	7	X	8
151	1801289299	SONALI GARNAIK	1	2	X	3	4	5	6	7	X	8
152	1801289300	SOUMYA RANJAN DALAI	1	2	3	4	5	6	7	8	9	X

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Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
153	1801289310	SOURAV KAR MOHAPATRA	1	2	3	4	5	6	7	8	X	9
154	1801289311	SOURAV PATTNAIK	1	2	3	4	5	X	6	7	8	9
155	1801289313	SUBHA RANJAN SAHOO	1	X	2	3	4	5	6	7	8	9
156	1801289314	SUBHADARSHINI SAMANTARAY	1	2	3	4	5	6	7	8	9	10
157	1801289316	SUBHAMSHREE MOHANTY	1	2	3	4	5	6	7	8	9	10
158	1801289318	SUBHASHREE MOHAPATRA	1	2	3	4	5	6	7	8	9	10
159	1801289319	SUBHASHREE PANDA	1	X	X	2	3	4	5	6	7	8
160	1801289322	SUBHRANSHU BED	1	2	3	4	5	6	7	8	9	10
161	1801289323	SUBHRANSU SEKHARA BEHERA	1	2	3	4	5	6	7	8	9	10
162	1801289326	SUCHETA KRUPALINI MOHARANA	1	X	2	3	4	5	6	7	8	9
163	1801289328	SUDIPTA ACHARYA	1	2	3	4	5	6	7	8	9	10
164	1801289329	SUMAN SOURAV PRUSTY	1	2	3	4	5	6	7	8	9	10
165	1801289330	SUMMI KUMARI	1	2	3	4	5	6	7	8	9	10
166	1801289333	SUPRIYA PRADHAN	1	2	3	4	5	6	7	8	9	10
167	1801289336	SURJEET PANIGRAHI	1	2	3	4	5	X	6	7	8	9
168	1801289337	SURYA PRATIVA NAYAK	1	X	2	3	4	5	6	7	8	9
169	1801289338	SUSHREE SATABDI MOHANTY	1	X	2	3	4	5	6	7	8	9
170	1801289340	SWACHI SWETA BEHERA	1	2	3	4	5	6	7	8	X	9
171	1801289341	SWADHIN ACHARYA	1	2	3	4	5	6	7	8	9	10
172	1801289342	SWARUP MISHRA	1	2	3	4	5	6	7	8	9	10
173	1801289345	SWATI PRUSTY	1	2	3	4	5	6	7	8	X	9
174	1801289348	SWEETY SAMANTA	1	2	3	4	5	6	7	8	9	10
175	1801289350	SWETAPADMA DAS	1	2	3	4	5	6	X	7	8	9
176	1801289352	TAISON NAYAK	1	2	3	4	5	X	6	7	8	9
177	1801289354	TANUSHREE MAHATO	1	2	3	4	5	6	7	8	9	10
178	1801289356	TRILOCHAN SAHOO	1	2	3	4	5	X	6	7	8	9
179	1801289358	TUSHAR RANJAN NAYAK	1	2	3	X	4	5	6	7	8	9
180	1801289359	UMMUL WARA	1	2	3	4	5	6	7	8	9	X
181	1801289362	VIKRANT SINGH	1	2	3	4	5	6	7	8	9	X
182	1801289365	VIVEKANAND PATNAIK	1	2	3	4	5	6	X	7	8	9
183	1801289366	WASEEM SHAH	1	2	3	4	5	6	7	8	9	10
184	1801289367	WRITCHIK BISWAL	1	2	3	4	5	X	6	7	8	9
185	1801289143	JAYDEEP GHATUARY	1	2	3	4	5	6	7	8	9	10
186	1801289331	SUNAINA MOHAPATRA	1	2	3	4	5	6	7	8	9	10
187	1921289024	ABHIJEET MAHAPATRA	1	2	3	4	5	6	7	8	9	X
188	1921289025	ANJALI MINZ	1	2	3	4	5	6	7	8	9	10
189	1921289026	APOORVA NAYAK	1	2	3	4	5	6	7	8	9	X
190	1921289027	BONGU VAIJAYANTHI	1	2	3	4	5	X	6	7	8	9
191	1921289028	CHOUDHURI SUBHANKAR DAS	1	X	2	3	4	5	6	7	8	9

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193	1921289026	APOORVA NAYAK	1	2	3	4	5	6	7	X	8	9
194	1921289027	BONGU VAIJAYANTHI	1	2	3	4	5	6	7	X	8	9
195	1921289028	CHOUDHURI SUBHANKAR DAS	1	2	3	4	5	6	7	8	9	10
196	1921289029	DEBIPRASAD DAS	1	X	2	3	4	5	6	7	8	9
197	1921289030	DIPRA BARDHAN	X	X	1	2	3	4	5	6	7	8
198	1921289031	JAYADEV JENA	1	2	3	4	5	6	7	8	9	10
199	1921289032	NIKHIL RANJAN SAMAL	1	2	3	4	5	6	7	8	9	X
200	1921289033	PRAGYANSMITA MOHANTY	X	1	2	3	4	5	6	7	8	9
201	1921289034	PREETI DUTTA	1	2	3	4	5	6	7	8	9	10
202	1921289035	RAJESH BEHERA	1	2	3	4	5	6	7	8	9	10
203	1921289036	ROJALIN NAYAK	1	2	3	4	5	6	7	8	9	10
204	1921289037	S AFREEN BEGUM	1	2	3	4	5	6	7	X	8	X
205	1921289038	SAGAR BINDU DASH	1	2	3	4	5	X	6	7	8	X
206	1921289039	SALINI KHUNTIA	X	1	2	3	4	5	6	7	8	9
207	1921289040	SHEETAL KUMARI	1	2	3	4	5	6	7	X	8	9
208	1921289041	SUBHAM SAMANTRAY	1	2	3	4	5	6	7	8	9	X
209	1801289007	ABHISEK DAS	1	2	3	4	5	6	7	X	8	9
210	1801289036	AMIYA RANJAN SWAIN	1	2	3	4	5	X	6	7	8	9
211	1801289053	ANSUMAN ACHARYA	1	2	3	4	5	X	6	7	8	9
212	1801289092	BISWA BINIT BEHERA	1	2	3	4	5	6	7	8	9	10
213	1801289093	BISWAJIT PATRA	1	2	3	4	5	6	7	8	9	10
214	1801289094	BISWAJIT PATTANAIK	1	2	3	4	5	6	7	8	9	10
215	1801289214	PRAVANJAN BEHERA	1	2	3	4	5	6	7	8	9	X
216	1801289240	RISHAV KUMAR	1	2	3	4	5	6	7	X	8	9
217	1801289253	SAI SWAROOP SAHU	1	2	3	4	X	5	6	7	8	9
218	1801289256	SANDEEP KUMAR PRADHAN	1	X	2	3	4	5	6	7	8	9
219	1801289263	SAROJ ROUTRAY	1	X	2	3	4	5	6	7	8	9
220	1921289048	AMAR KUMAR	1	X	2	3	4	5	6	7	8	9
221	1921289049	AYUSHMAN PANIGRAHI	1	2	3	4	5	6	7	8	9	10
222	1921289050	BIBEK SUNDARAY	1	2	3	4	5	6	7	8	9	10
223	1921289051	PRIYA RANJAN DWIBEDI	1	2	3	4	5	6	7	8	9	X
224	1921289052	SANTANU KUMAR SAHOO	1	2	3	4	5	6	7	X	8	9
225	1801289008	ABHISEK NAYAK	1	2	3	4	X	5	6	7	8	9
226	1801289022	AKSHAT SIDHARTH	1	2	3	4	5	6	7	8	9	10
227	1801289024	AMAN AKASH	1	2	3	4	5	6	7	8	9	X
228	1801289029	AMARESH SAMANTARAY	1	2	X	3	4	5	6	7	8	9
229	1801289065	ARYA KUMAR ANSHUMAN SWAIN	1	2	X	3	4	5	6	7	8	9
230	1801289071	ASHUTOSH PRASAD	1	2	3	4	5	6	7	8	9	10
231	1801289081	B SRAVAN KUMAR	1	2	3	4	5	X	6	7	8	9
232	1801289112	DEEPAK KUMAR SAHU	1	2	3	4	5	6	7	8	9	X

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233	1801289136	HINDURAY HEMBROM	1	2	3	4	5	X	6	7	8	9
234	1801289151	KAIBALYA PANDA	1	2	3	4	5	X	6	X	7	8
235	1801289158	KUMAR ABHISEK	1	2	3	4	5	6	7	8	9	10
236	1801289181	MOHAMMED EHTESHAM	1	2	3	4	5	6	7	8	9	X
237	1801289244	RUDRA PRASAD NAYAK	X	1	2	3	4	5	6	7	8	9
238	1801289283	SHUBHAM KUMAR SINGH	X	1	2	3	4	5	6	7	8	9
239	1801289327	SUDIP SAHU	1	2	3	4	5	6	7	8	X	9
240	1801289332	SUPRAVA PARIDA	1	2	3	4	5	6	7	8	9	X
241	1801289343	SWASTIK SHUVAM SAHU	1	2	3	4	5	6	7	X	8	9
242	1921289043	HAPPY MANGARAJ	1	2	3	4	5	X	6	7	8	9
243	1921289044	PRIYABRATA SETHY	1	2	3	4	5	6	7	8	9	X
244	1921289045	SK ASIF ALI	1	2	3	4	5	6	7	8	X	9
245	1921289046	SUBHASHIS DASH	1	2	3	4	X	5	6	7	8	9
246	1921289047	SUBHASISH MOHAPATRA	1	2	3	4	5	6	7	8	9	10
247	1801289011	ABHISHEK KUMAR MISHRA	1	2	3	4	X	5	6	7	X	8
248	1801289012	ABHISHEK SHARMA	1	2	3	4	5	6	7	8	9	10
249	1801289014	ABINASH KAR	1	2	3	4	5	6	7	8	X	9
250	1801289015	ABINASH PANDA	1	2	3	X	4	5	6	7	8	9
251	1801289019	AJIT KUMAR BHUTIA	1	2	3	4	5	6	7	8	9	X
252	1801289030	AMISHA SINGH	1	2	3	4	5	6	7	8	9	X
253	1801289040	ANCHAL MOHAPATRA	1	2	3	X	4	5	6	7	8	9
254	1801289046	ANKITA JENA	1	2	3	4	5	6	7	X	8	9
255	1801289049	ANKITA ROUL	1	2	3	4	5	6	7	X	8	9
256	1801289055	ANUSKA PANDA	X	1	2	3	4	5	6	7	8	9
257	1801289056	ANWESHA ANURAKTA	X	1	2	3	4	5	6	7	X	8
258	1801289059	ARIJIT MOHAPATRA	1	2	3	4	5	6	7	X	8	9
259	1801289083	BARKHA SONI	1	2	3	4	5	6	7	8	9	10
260	1801289089	BISHAL GHOSH	1	2	3	4	5	6	7	8	X	9
261	1801289110	DEEPAK KUMAR MOHANTY	X	1	2	3	4	5	6	7	8	9
262	1801289124	DURGA THAKUR	1	2	3	4	5	6	7	8	X	9
263	1801289127	EKATA PRADHAN	1	2	3	4	5	6	7	8	X	9
264	1801289147	JUGANT JOGIT MISHRA	1	2	3	4	5	6	7	8	9	10
265	1801289154	KONA HARISH KUMAR	1	2	3	4	5	6	7	8	X	9
266	1801289179	MOHAMMAD FAIZAN AKHTER	1	2	3	4	5	6	7	8	9	10
267	1801289196	OMANANDA ARYA	1	2	X	3	4	X	5	6	7	8
268	1801289199	PADMOJA PRADHAN	1	X	2	3	4	5	6	7	8	9
269	1801289207	PRASANJEET BISWAL	1	2	3	4	5	6	7	8	9	10
270	1801289218	PRITISH KUMAR NANDA	1	2	3	4	5	6	7	8	9	10
271	1801289222	RAHUL BISWAL	1	2	3	4	5	6	7	8	9	X
272	1801289224	RAHUL KUMAR	1	2	X	3	4	5	6	7	8	9

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273	1801289238	RAUSHAN KUMAR	1	2	3	4	5	6	7	8	X	9
274	1801289255	SAMEER KUMAR PATRA	1	2	3	4	5	6	X	7	8	X
275	1801289262	SARFI TAQWIN	X	1	2	3	4	5	6	7	8	9
276	1801289269	SATYARANJAN KHUNTIA	1	2	3	4	5	6	7	8	9	X
277	1801289276	SHOAIB AKHTER	1	2	3	4	5	6	7	8	9	10
278	1801289278	SHREEYA MOHANTY	1	2	3	4	5	6	7	8	9	10
279	1801289282	SHUBHAM KUMAR PATRO	1	2	3	4	5	6	7	X	8	9
280	1801289285	SIBA SANKAR PADHI	1	2	3	4	5	6	X	7	8	9
281	1801289288	SIMRAN BEHERA	1	2	3	4	5	6	7	8	9	10
282	1801289294	SMRUTI SMITA PRIYADARSHINI	1	2	X	3	4	5	6	7	8	9
283	1801289303	SOUMYA RANJAN ROUT	1	2	3	4	5	6	7	8	9	10
284	1801289309	SOURABH KUMAR JENA	1	2	3	4	5	6	7	8	9	10
285	1801289315	SUBHAM SINHA	1	2	3	4	5	X	6	7	8	9
286	1801289317	SUBHASHANKAR SENAPATI	1	X	2	4	5	X	6	7	8	9
287	1801289324	SUBRAT MOHANTY	1	2	3	4	5	6	7	8	X	9
288	1801289325	SUBRAT SWAIN	1	2	3	4	5	6	7	X	8	9
289	1801289334	SURAJ DUTTA	1	2	3	4	5	6	7	X	8	9
300	1801289339	SUSOBHAN SETHI	1	2	3	4	5	6	7	8	9	10
301	1801289346	SWAYAM PRAKASH PATNAIK	1	2	X	3	4	5	6	7	8	9
302	1801289349	SWETA SUMAN MOHANTY	1	2	3	4	5	6	7	X	8	9
303	1801289351	SYED RAFIKUJ JAMAL	1	2	3	4	5	6	7	8	9	10
304	1801289353	TANMAY KUMAR MISHRA	1	2	3	4	5	6	7	8	9	10
305	1801289357	TUSAR MOHANTY	1	2	3	4	5	6	7	8	9	10
306	1801289361	VARSHA CHAR MODAK	1	X	2	3	4	5	6	7	8	9
307	1801289363	VISHAL KUMAR MISHRA	1	X	2	3	4	5	6	7	8	9
308	1921289057	RIYA MAJUMDER	1	2	3	4	5	X	6	7	8	9
309	1921289058	SARVESH KUMAR	1	2	3	4	5	X	6	7	8	9
310	1921289059	SUMIT MISHRA	1	2	3	4	5	6	7	8	9	10
311	1921289060	TEJASWINI BEHERA	1	2	3	4	5	6	7	8	9	X
312	1922289061	SHREETAM CHOUDHURY	1	2	3	4	5	6	7	8	9	X
313	1922289062	ROHIT KUMAR AGARWAL	1	2	3	4	5	6	7	8	9	10
314	1922289063	KAMAL KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
315	1922289064	RK SHAKTI CHANDAN PATTANAYAK	1	2	3	4	5	6	7	8	9	10
316	1922289065	PRITIRANJAN SAHOO	1	2	3	4	5	6	7	8	X	9
317	1801289325	SUBRAT SWAIN	1	2	3	4	5	6	7	8	X	9
318	1801289334	SURAJ DUTTA	1	2	3	4	5	X	6	7	8	10
319	1801289339	SUSOBHAN SETHI	1	2	3	4	5	6	7	8	X	9
320	1801289346	SWAYAM PRAKASH PATNAIK	1	2	3	4	5	X	6	7	8	10

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321	1801289005	ABHIJIT SARANGI	1	2	3	4	5	6	7	X	8	9
322	1801289009	ABHISEK ROUT	1	2	3	4	5	6	7	X	8	9
323	1801289013	ABHISHEK SINGH	1	2	3	4	5	6	7	8	9	10
324	1801289018	ADITYA KUMAR	1	2	3	4	5	6	7	8	9	10
325	1801289048	ANKITA PALAI	1	2	3	4	5	X	6	7	8	9
326	1801289052	ANSHUMAN RAY	1	X	2	3	4	5	6	7	8	9
327	1801289077	AYUSH KUMAR SINGH	1	X	2	3	4	5	6	7	8	9
328	1801289084	BARSA PRIYADARSHINI SAMAL	1	2	3	4	5	6	7	8	X	9
329	1801289108	DEBJYOT MOHANTY	1	2	3	4	5	6	7	8	X	9
330	1801289122	DINESH KUMAR SETHI	1	2	3	4	5	X	6	7	8	10
331	1801289126	DWITI KRISHNA SETHY	1	2	3	4	5	6	7	8	X	9
332	1801289155	KRISHNA PRASAD SETHI	1	2	3	4	5	6	7	X	8	9
333	1801289175	MEGHNA PRIYADARSHANI	1	2	3	4	5	6	7	X	8	9
334	1801289191	NIKITA MOHANTY	1	2	3	4	X	5	6	7	8	9
335	1801289195	NITISH KUMAR YADAV	1	2	3	4	5	6	7	8	9	10
336	1801289209	PRATEEK PRIYADARSHI	1	X	2	3	4	5	6	7	8	9
337	1801289211	PRATYUSH KUMAR ROY	1	2	3	4	5	6	7	8	9	10
338	1801289242	RITESH KUMAR	1	2	3	4	5	6	7	8	9	10
339	1801289273	SHIBA NANDA SAHOO	1	2	3	4	5	6	7	8	9	10
340	1801289286	SIBASISH SETHY	1	2	3	4	5	X	6	7	8	9
341	1801289302	SOUMYA RANJAN NAYAK	1	2	3	4	X	5	7	8	X	9
342	1801289347	SWAYAM PRAVA PRADHAN	1	2	3	4	5	6	7	8	X	9
343	1921289001	ABANTIKA NAYAK	1	2	3	4	X	5	6	7	8	9
344	1921289002	ABHISEK BEHERA	1	2	X	3	4	5	6	7	8	9
345	1921289003	ABHISHEK GOCHHAYAT	1	2	3	4	5	6	7	8	X	9
346	1921289004	ADITYA ASHUTOSH NARAYAN	1	2	X	3	4	5	6	7	8	9
347	1921289005	ANINDITA SARANGI	1	2	3	4	5	6	7	8	X	9
348	1921289006	ANKITA DAS	1	2	3	4	5	6	7	8	X	9
349	1921289007	BHARATENDU NAYAK	1	2	3	4	5	6	7	8	9	10
350	1921289008	BISWAJIT BISWAL	1	2	3	4	X	5	6	7	8	9
351	1921289009	CHINMAYA BISOI	1	2	X	3	X	4	5	X	6	7
352	1921289010	GOURI RANI	1	2	3	4	5	6	7	8	9	10
353	1921289011	HIMANSU SEKHAR BARIK	1	2	X	3	4	5	6	7	8	9
354	1921289012	MONALISHA PRIYADARSHINI	1	X	2	3	4	5	6	7	8	9
355	1921289013	NIRUTA JENA	1	2	3	4	5	6	7	8	9	10
356	1921289014	PADMAJA GHOSH	1	2	3	4	5	6	7	8	9	X
357	1921289015	SADASIBA SOREN	1	2	3	4	5	6	X	7	8	9
358	1921289016	SARADA PRASAD JENA	1	2	3	4	5	6	7	8	9	X

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359	1801289001	ABANISH MUDULI	1	2	3	4	5	6	X	7	8	9
360	1801289002	ABDUL AABID KHAN	1	2	X	3	4	5	X	6	7	8
361	1801289003	ABHIJEET MOHANTY	1	2	3	4	5	6	7	8	9	10
362	1801289010	ABHISHEK KUMAR	1	2	3	4	5	6	7	8	9	X
363	1801289016	ADARSH DHIR	1	2	3	4	5	6	7	8	9	10
364	1801289017	ADITYA ASHUTOSH	X	1	2	3	4	5	6	7	X	8
365	1801289020	AKANKSHA DAS	1	2	X	3	4	5	6	7	X	8
366	1801289021	AKASH KUMAR	X	1	2	3	4	5	6	7	8	9
367	1801289026	AMAN MOHANTY	1	2	3	4	5	6	6	7	8	9
368	1801289027	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
369	1801289031	AMIT GIRI	1	2	3	4	5	6	7	8	9	X
370	1801289033	AMIT KUMAR SINGH	1	2	3	4	5	6	X	7	X	8
371	1801289034	AMITABH TARENIA	1	2	3	4	5	6	X	7	X	8
372	1801289035	AMIYA PALAI	1	2	X	3	4	5	6	7	8	9
373	1801289037	AMLAN KUMAR NANDY	1	2	3	4	5	6	7	8	9	10
374	1801289038	ANANYA DASH	1	2	3	4	5	6	7	8	9	10
375	1801289039	ANANYA PRIYADARSHINI MANTRY	1	2	3	4	5	6	7	8	9	X
376	1801289042	ANIMESH SAHOO	1	2	3	4	5	6	7	8	9	10
377	1801289043	ANJALI KUMARI	1	2	3	4	5	6	X	7	8	9
378	1801289044	ANKIT BHUYAN	1	X	2	3	4	5	6	7	8	9
379	1801289045	ANKITA BHUYAN	1	2	3	4	5	6	7	8	9	10
380	1801289051	ANKITA SINGH	1	2	3	4	5	6	7	8	9	10
381	1801289058	ARCH SATPATHY	1	2	3	4	5	6	7	8	9	10
382	1801289060	ARKASARATHI DAS	1	2	3	4	5	6	7	8	X	9
383	1801289061	ARPIT ABHISHEK MOHANTY	1	2	3	4	5	6	X	7	8	9
384	1801289066	ASHISH KUMAR JENA	1	2	3	4	5	6	X	7	8	9
385	1801289067	ASHISH KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
386	1801289068	ASHISH RANJAN	1	2	3	4	5	6	7	8	9	10
387	1801289069	ASHRIBAD BEHERA	1	2	3	4	5	6	7	8	9	X
388	1801289070	ASHUTOSH JENA	1	2	3	4	5	6	7	8	9	X
389	1801289073	AURPITA SWAIN	X	1	2	3	4	5	7	X	8	X
390	1801289074	AVI KUMAR	1	2	3	4	5	6	X	7	8	9
391	1801289075	AYASKANTA BEHERA	1	2	3	4	5	6	7	8	9	10
392	1801289076	AYESHKANT LENKA	1	2	3	4	5	6	X	7	8	9
393	1801289078	AYUSH PANDEY	1	2	3	4	5	6	7	8	9	10
394	1801289079	AYUSH SHARMA	1	2	3	4	5	6	7	8	9	10
395	1801289082	BAISALI DAS	1	2	X	3	4	5	6	7	8	9
396	1801289085	BHABANI SHANKAR NAYAK	1	2	X	3	4	5	6	7	8	9

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Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
397	1801289087	BINIT JAISWAL	1	2	3	4	5	6	X	7	8	9
398	1801289088	BISHAL ACHARYA	1	2	3	4	5	X	6	7	8	9
399	1801289090	BISHAL MALLICK	1	2	3	4	5	6	7	8	9	10
400	1801289091	BISHNU PRASAD PANDA	1	2	3	4	5	X	6	7	8	9
401	1801289096	BISWAJIT SAHOO	X	1	2	3	4	5	6	7	8	9
402	1801289098	CHANDRA SHEKHAR JENAMONI	1	2	3	4	5	6	7	8	9	10
403	1801289099	CHANDRAPRAVA MOHANTY	1	2	3	4	5	6	7	8	9	10
404	1801289100	CHINMAYA SAMANTARA	1	X	2	3	4	5	6	7	8	9
405	1801289101	CHIRANJIBEE MOHAPATRA	1	X	2	3	4	5	6	7	8	9
406	1801289102	CHITTA RANJAN BISWAL	1	X	2	3	4	5	6	7	8	X
407	1801289103	DANISH QUAMAR KHAN	1	2	3	4	5	6	7	8	9	10
408	1801289104	DEBABRATA DEHURY	1	2	3	4	5	6	7	8	9	10
409	1801289106	DEBASISH PANDA	1	2	3	4	5	6	7	X	8	X
410	1801289107	DEBASISH SWAIN	1	2	3	4	5	6	7	8	9	10
411	1801289114	DHIRAJ KUMAR SINGH	1	2	3	4	5	6	7	X	8	9
412	1801289115	DIBYA BHARATI DAS	1	2	3	4	5	6	7	8	9	10
413	1801289117	DIBYAPRAKASH PRUSTY	1	2	3	4	5	6	7	8	9	10
414	1801289118	DIBYARANJAN BARIK	1	2	3	4	X	5	6	7	8	X
415	1801289120	DIKSHA PRASAD	1	2	3	4	5	6	7	8	9	10
416	1801289121	DINESH JENA	1	2	3	4	5	6	7	8	9	X
417	1801289123	DIPANSHU ROUTRAY	1	2	3	X	4	5	6	7	8	9
418	1801289125	DURGASISH MISHRA	1	2	3	4	5	6	7	8	9	10
419	1801289128	GANESH SOREN	1	2	3	X	4	5	6	7	8	9
420	1801289129	GAURIPRASAD LENKA	1	2	3	4	5	6	7	8	9	10
421	1801289132	GYANAJIT DAS	1	2	3	4	5	6	7	8	9	10
422	1801289134	HEEM ANANYA TANTI	1	2	3	4	5	6	7	8	9	10
423	1801289137	HITESH KUMAR MAHANTA	1	X	2	3	4	5	6	7	8	9
424	1801289139	ITISHREE DAS	1	X	2	3	4	5	6	7	8	9
425	1801289140	JAGAN MOHAPATRA	1	2	3	4	5	6	7	8	9	10
426	1801289141	JAGAN MOHARANA	1	2	3	4	5	6	7	8	9	10
427	1801289142	JAYAKRUSHNA ROUT	1	2	3	4	5	6	7	8	9	10
428	1801289145	JINGYANSHU RANJAN RAUTARAY	1	X	2	3	4	5	6	7	8	9
429	1801289146	JOTIRAJ MAJHI	1	2	3	4	5	6	7	X	8	9
430	1801289148	JYOTI PRAKASH CHIRANJIV	1	2	3	4	5	6	7	X	8	9
431	1801289149	JYOTI PRAVA NAYAK	1	2	3	4	5	6	X	7	8	9
432	1801289087	BINIT JAISWAL	1	2	3	4	5	6	7	8	9	10
433	1801289088	BISHAL ACHARYA	1	2	3	4	5	6	X	7	8	9
434	1801289090	BISHAL MALLICK	1	2	3	4	X	5	6	7	8	9
435	1801289006	ABHINAV ARYAN	1	2	3	4	5	6	7	8	9	10
436	1801289023	AKSHITA	1	2	3	4	5	6	X	7	8	9
437	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	X	6	7	8	9

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Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
438	1801289087	BINIT JAISWAL	1	2	3	4	5	6	7	X	8	9
439	1801289088	BISHAL ACHARYA	1	2	3	4	5	X	6	7	X	8
440	1801289090	BISHAL MALLICK	1	2	3	4	5	6	7	8	9	X
441	1801289091	BISHNU PRASAD PANDA	1	2	3	4	5	X	6	X	7	8
442	1801289096	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
443	1801289098	CHANDRA SHEKHAR JENAMONI	1	2	3	4	X	5	6	7	8	9
444	1801289099	CHANDRAPRAVA MOHANTY	1	2	3	X	4	5	6	7	X	8
445	1801289100	CHINMAYA SAMANTARA	1	2	3	4	5	6	7	8	9	X
446	1801289101	CHIRANJIBEE MOHAPATRA	1	2	3	4	5	6	7	8	9	10
447	1801289102	CHITTA RANJAN BISWAL	1	2	3	4	5	6	7	8	X	9
448	1801289103	DANISH QUAMAR KHAN	1	2	3	4	5	6	7	8	9	X

Signature of Teacher

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Attendance Sheet

Name of the Teacher: [illegible] Sahu **Month/Year:** 10/2021

Subject Code: **Branch:** [illegible]

Subject: Power Plant Engineering

Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
1	1801289001	ABANISH MUDULI	10	X	11	12						
2	1801289002	ABDUL AABID KHAN	11	12	13	14						
3	1801289003	ABHIJEET MOHANTY	11	12	X	13						
4	1801289010	ABHISHEK KUMAR	10	11	X	12						
5	1801289016	ADARSH DHIR	11	12	X	13						
6	1801289017	ADITYA ASHUTOSH	11	12	13	14						
7	1801289020	AKANKSHA DAS	11	X	12	13						
8	1801289021	AKASH KUMAR	11	12	13	X						
9	1801289026	AMAN MOHANTY	10	11	X	12						
10	1801289027	AMAN RAJ	10	11	12	13						
11	1801289031	AMIT GIRI	11	12	13	14						
12	1801289033	AMIT KUMAR SINGH	11	12	13	14						
13	1801289034	AMITABH TARENIA	9	10	11	12						
14	1801289035	AMIYA PALAI	10	11	12	13						
15	1801289037	AMLAN KUMAR NANDY	10	11	12	13						
16	1801289038	ANANYA DASH	10	11	12	13						
17	1801289039	ANANYA PRIYADARSHINI MANTRY	11	12	X	13						
18	1801289042	ANIMESH SAHOO	10	11	12	X						
19	1801289043	ANJALI KUMARI	11	12	13	14						
20	1801289044	ANKIT BHUYAN	10	11	12	13						
21	1801289045	ANKITA BHUYAN	10	11	12	X						
22	1801289051	ANKITA SINGH	11	12	13	14						
23	1801289058	ARCH SATPATHY	10	11	12	13						
24	1801289060	ARKASARATHI DAS	11	12	X	13						
25	1801289061	ARPIT ABHISHEK MOHANTY	10	11	12	13						
26	1801289066	ASHISH KUMAR JENA	10	11	12	13						
27	1801289067	ASHISH KUMAR MOHAPATRA	11	12	13	14						
28	1801289068	ASHISH RANJAN	10	11	12	13						
29	1801289069	ASHRIBAD BEHERA	10	11	12	13						
30	1801289070	ASHUTOSH JENA	10	11	12	13						
31	1801289073	AURPITA SWAIN	11	12	13	14						
32	1801289074	AVI KUMAR	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
33	1801289075	AYASKANTA BEHERA	11	12	13	14						
34	1801289076	AYESHKANT LENKA	10	11	12	13						
35	1801289078	AYUSH PANDEY	10	11	12	13						
36	1801289079	AYUSH SHARMA	X	11	12	13						
37	1801289082	BAISALI DAS	10	11	12	X						
38	1801289085	BHABANI SHANKAR NAYAK	11	12	13	14						
39	1801289087	BINIT JAISWAL	9	10	11	12						
40	1801289088	BISHAL ACHARYA	11	12	13	14						
41	1801289090	BISHAL MALLICK	11	12	13	14						
42	1801289091	BISHNU PRASAD PANDA	11	12	13	14						
43	1801289096	BISWAJIT SAHOO	10	11	12	13						
44	1801289098	CHANDRA SHEKHAR JENAMONI	11	12	13	14						
45	1801289099	CHANDRAPRAVA MOHANTY	11	12	13	14						
46	1801289100	CHINMAYA SAMANTARA	11	12	13	14						
47	1801289101	CHIRANJIBEE MOHAPATRA	11	X	12	13						
48	1801289102	CHITTA RANJAN BISWAL	10	11	12	X						
49	1801289103	DANISH QUAMAR KHAN	11	12	13	X						
50	1801289104	DEBABRATA DEHURY	11	12	13	14						
51	1801289106	DEBASISH PANDA	10	11	12	13						
52	1801289107	DEBASISH SWAIN	10	11	12	13						
53	1801289114	DHIRAJ KUMAR SINGH	10	11	12	13						
54	1801289115	DIBYA BHARATI DAS	10	11	12	13						
55	1801289117	DIBYAPRAKASH PRUSTY	11	12	13	14						
56	1801289118	DIBYARANJAN BARIK	10	11	12	13						
57	1801289120	DIKSHA PRASAD	10	11	12	13						
58	1801289121	DINESH JENA	9	10	11	12						
59	1801289123	DIPANSHU ROUTRAY	11	12	13	14						
60	1801289125	DURGASISH MISHRA	10	11	12	13						
61	1801289128	GANESH SOREN	10	11	12	13						
62	1801289129	GAURIPRASAD LENKA	11	12	13	14						
63	1801289132	GYANAJIT DAS	10	11	12	13						
64	1801289134	HEEM ANANYA TANTI	10	11	12	13						
65	1801289137	HITESH KUMAR MAHANTA	10	11	12	13						
66	1801289139	ITISHREE DAS	11	12	13	X						
67	1801289140	JAGAN MOHAPATRA	10	11	12	13						
68	1801289141	JAGAN MOHARANA	10	11	12	13						
69	1801289142	JAYAKRUSHNA ROUT	11	12	13	14						
70	1801289145	JINGYANSHU RANJAN RAUTARAY	11	12	13	14						
71	1801289146	JOTIRAJ MAJHI	11	12	X	13						
72	1801289148	JYOTI PRAKASH CHIRANJIV	11	12	13	14						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
73	1801289149	JYOTI PRAVA NAYAK	11	12	13	14						
74	1801289150	JYOTI RANJAN SAHOO	10	11	12	13						
75	1801289152	KESHAV PANDEY	10	11	12	13						
76	1801289153	KHYATI CHOUBEY	10	11	12	X						
77	1801289156	KULDEEP KUMAR SINGH	10	11	12	X						
78	1801289159	KUMAR GOURAV	11	12	13	14						
79	1801289160	LAL KRISHNA NAYAK	11	12	13	14						
80	1801289161	LIPSA DASH	10	11	12	13						
81	1801289162	LOPAMUDRA SAHOO	10	11	12	13						
82	1801289163	LOPAMUDRA SWAIN	11	12	13	14						
83	1801289164	LUSHNA SAMANTARAY	10	11	12	13						
84	1801289165	MANAS RANJAN PATEL	10	11	12	13						
85	1801289167	MANASHI MAJHI	10	11	12	13						
86	1801289171	MANISHA KHATUA	10	11	13	14						
87	1801289174	MEDHA SINGH	11	12	13	14						
88	1801289177	MOHAMMAD ABDUL AZIZ	10	11	12	X						
89	1801289178	MOHAMMAD AMMAN KHAN	10	11	12	X						
90	1801289182	MOHAN P MANDAL	9	10	11	12						
91	1801289183	MONALISA NAG	10	11	12	13						
92	1801289185	NANDISH MOHANTY	11	12	13	14						
93	1801289186	NEHA SAMANTRAY	11	12	13	14						
94	1801289187	NIHARIKA DAS	10	11	12	13						
95	1801289189	NIKHIL KUMAR BISOI	11	12	13	14						
96	1801289190	NIKHILESH MISHRA	10	11	12	13						
97	1801289192	NISHA CHOUDHARY	11	12	13	14						
98	1801289194	NITISH KUMAR SWAIN	10	11	12	13						
99	1801289197	OMPRAKASH NITYANAND SAHOO	10	11	12	13						
100	1801289198	P. SONIA PATRO	11	12	13	14						
101	1801289200	PALLAVI PATTNAIK	10	11	12	13						
102	1801289201	PAWAN KR SHAH	11	12	13	14						
103	1801289202	PIYASHREE BISWAS	10	11	12	13						
104	1801289203	PRABHASH RANJAN RAUT	10	11	12	13						
105	1801289205	PRAGATIKA SATAPATHY	10	11	12	13						
106	1801289206	PRANAT PRADHAN	11	12	13	14						
107	1801289210	PRATIKSHYA DAS	10	11	12	13						
108	1801289212	PRATYUSH KUMAR SATAPATHY	11	12	13	14						
109	1801289213	PRATYUSH NANDA	11	12	13	14						
110	1801289216	PRAVUDATTA AMIYA CHANDRA NAYAK	10	11	12	X						
111	1801289219	PRIYANKA NANDA	9	10	11	12						
112	1801289220	PUMMI PRAKASH	11	12	13	14						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
113	1801289221	RAGHU NANDAN PANDA	10	11	12	13						
114	1801289223	RAHUL KISHOR PARIDA	10	11	X	12						
115	1801289226	RAHUL MAHATO	10	11	12	X						
116	1801289227	RAJ KISHORE SAHOO	10	11	12	13						
117	1801289230	RAJASHREE SAHOO	11	12	13	14						
118	1801289231	RAJAT KUMAR PATI	10	11	12	13						
119	1801289233	RAJESH RANJAN	11	12	13	14						
120	1801289234	RANJIT KUMAR GOUDA	10	11	12	13						
121	1801289235	RANJIT KUMAR SAHU	10	11	12	13						
122	1801289236	RASESH DAS	11	12	13	14						
123	1801289237	RATIKANTA ROUT	10	11	12	13						
124	1801289241	RISHAV KUMAR SINGH	10	11	12	13						
125	1801289243	ROHIT PANDA	10	11	12	13						
126	1801289245	RUDRADEV PANDA	10	11	12	13						
127	1801289246	RUDRANARAYAN DHAL	10	11	12	13						
128	1801289247	S SAI SIVANEE	10	11	12	13						
129	1801289251	SAI SAMIKSHYA MAHAPATRA	11	12	13	14						
130	1801289254	SAKSHI BHARDWAJ	11	12	13	14						
131	1801289257	SANDEEP KUMAR RANA	11	12	13	14						
132	1801289259	SANKET BISHOI	10	11	12	13						
133	1801289264	SASHIKANTA SIAL	10	11	12	13						
134	1801289265	SATABDI MILAN BEURA	11	11	12	13						
135	1801289266	SATYA PRAKASH MOHANTY	11	12	13	14						
136	1801289267	SATYA RANJAN SAHOO	10	11	12	13						
137	1801289268	SATYABRATA OJHA	10	11	12	13						
138	1801289270	SATYASUMAN DASH	11	12	13	14						
139	1801289271	SHAHJADA E SAQUALAIN	11	12	13	14						
400	1801289272	SHAKTI PRASAD SAHOO	11	12	13	14						
141	1801289274	SHIBA PRASAD MOHANTA	10	11	12	13						
142	1801289277	SHOURYA KUMAR JHA	10	11	12	13						
143	1801289280	SHUBHAM KESHRI	11	12	13	X						
144	1801289281	SHUBHAM KUMAR	11	12	13	X						
145	1801289284	SHUBHAM MISHRA	10	11	12	13						
146	1801289290	SIPRA SAHOO	11	12	13	14						
147	1801289291	SK NIZAMUDDIN	11	12	13	14						
148	1801289292	SMRUTI DAS	11	12	13	14						
149	1801289293	SMRUTI RANJAN KHUNTIA	11	12	13	14						
150	1801289295	SOBHAN DASH	9	10	11	12						
151	1801289299	SONALI GARNAIK	9	10	11	12						
152	1801289300	SOUMYA RANJAN DALAI	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
153	1801289310	SOURAV KAR MOHAPATRA	10	11	12	13						
154	1801289311	SOURAV PATTNAIK	10	11	12	13						
155	1801289313	SUBHA RANJAN SAHOO	10	11	12	13						
156	1801289314	SUBHADARSHINI SAMANTARAY	11	12	13	14						
157	1801289316	SUBHAMSHREE MOHANTY	11	12	13	14						
158	1801289318	SUBHASHREE MOHAPATRA	11	12	13	14						
159	1801289319	SUBHASHREE PANDA	9	10	11	12						
160	1801289322	SUBHRANSHU BED	11	12	13	14						
161	1801289323	SUBHRANSU SEKHARA BEHERA	11	12	13	14						
162	1801289326	SUCHETA KRUPALINI MOHARANA	10	11	12	13						
163	1801289328	SUDIPTA ACHARYA	11	12	13	14						
164	1801289329	SUMAN SOURAV PRUSTY	11	12	13	14						
165	1801289330	SUMMI KUMARI	11	12	13	14						
166	1801289333	SUPRIYA PRADHAN	11	12	13	14						
167	1801289336	SURJEET PANIGRAHI	10	A	12	13						
168	1801289337	SURYA PRATIVA NAYAK	10	11	12	13						
169	1801289338	SUSHREE SATABDI MOHANTY	10	11	12	13						
170	1801289340	SWACHI SWETA BEHERA	10	11	12	13						
171	1801289341	SWADHIN ACHARYA	11	12	13	14						
172	1801289342	SWARUP MISHRA	11	12	13	14						
173	1801289345	SWATI PRUSTY	10	11	12	13						
174	1801289348	SWEETY SAMANTA	11	12	13	14						
175	1801289350	SWETAPADMA DAS	10	11	12	13						
176	1801289352	TAISON NAYAK	10	11	12	13						
177	1801289354	TANUSHREE MAHATO	11	X	12	13						
178	1801289356	TRILOCHAN SAHOO	10	11	12	13						
179	1801289358	TUSHAR RANJAN NAYAK	10	11	12	X						
180	1801289359	UMMUL WARA	10	11	12	13						
181	1801289362	VIKRANT SINGH	10	11	12	13						
182	1801289365	VIVEKANAND PATNAIK	10	11	12	13						
183	1801289366	WASEEM SHAH	11	12	13	14						
184	1801289367	WRITCHIK BISWAL	10	11	12	13						
185	1801289143	JAYDEEP GHATUARY	11	12	13	14						
186	1801289331	SUNAINA MOHAPATRA	11	12	13	14						
187	1921289024	ABHIJEET MAHAPATRA	10	11	12	13						
188	1921289025	ANJALI MINZ	11	12	13	14						
189	1921289026	APOORVA NAYAK	10	11	12	13						
190	1921289027	BONGU VAIJAYANTHI	10	11	12	13						
191	1921289028	CHOUDHURI SUBHANKAR DAS	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
193	1921289026	APOORVA NAYAK	10	11	12	13						
194	1921289027	BONGU VAIJAYANTHI	10	11	12	13						
195	1921289028	CHOUDHURI SUBHANKAR DAS	11	12	13	14						
196	1921289029	DEBIPRASAD DAS	10	11	12	13						
197	1921289030	DIPRA BARDHAN	9	10	11	12						
198	1921289031	JAYADEV JENA	11	12	13	X						
199	1921289032	NIKHIL RANJAN SAMAL	10	11	12	X						
200	1921289033	PRAGYANSMITA MOHANTY	10	X	11	12						
201	1921289034	PREETI DUTTA	11	12	13	14						
202	1921289035	RAJESH BEHERA	11	12	13	14						
203	1921289036	ROJALIN NAYAK	11	12	13	14						
204	1921289037	S AFREEN BEGUM	9	10	11	12						
205	1921289038	SAGAR BINDU DASH	9	10	11	12						
206	1921289039	SALINI KHUNTIA	10	11	12	X						
207	1921289040	SHEETAL KUMARI	10	X	11	12						
208	1921289041	SUBHAM SAMANTRAY	10	11	12	13						
209	1801289007	ABHISEK DAS	10	11	12	13						
210	1801289036	AMIYA RANJAN SWAIN	10	11	12	13						
211	1801289053	ANSUMAN ACHARYA	10	11	12	13						
212	1801289092	BISWA BINIT BEHERA	11	12	13	X						
213	1801289093	BISWAJIT PATRA	11	12	13	X						
214	1801289094	BISWAJIT PATTANAIK	11	12	13	14						
215	1801289214	PRAVANJAN BEHERA	10	11	12	13						
216	1801289240	RISHAV KUMAR	10	X	11	12						
217	1801289253	SAI SWAROOP SAHU	10	11	12	13						
218	1801289256	SANDEEP KUMAR PRADHAN	10	11	X	12						
219	1801289263	SAROJ ROUTRAY	10	11	X	12						
220	1921289048	AMAR KUMAR	10	11	12	13						
221	1921289049	AYUSHMAN PANIGRAHI	11	12	13	14						
222	1921289050	BIBEK SUNDARAY	11	12	13	14						
223	1921289051	PRIYA RANJAN DWIBEDI	10	11	12	13						
224	1921289052	SANTANU KUMAR SAHOO	10	11	12	13						
225	1801289008	ABHISEK NAYAK	10	11	12	13						
226	1801289022	AKSHAT SIDHARTH	11	12	13	14						
227	1801289024	AMAN AKASH	10	11	12	13						
228	1801289029	AMARESH SAMANTARAY	10	11	12	13						
229	1801289065	ARYA KUMAR ANSHUMAN SWAIN	10	11	12	13						
230	1801289071	ASHUTOSH PRASAD	11	X	12	13						
231	1801289081	B SRAVAN KUMAR	10	11	12	13						
232	1801289112	DEEPAK KUMAR SAHU	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
233	1801289136	HINDURAY HEMBROM	10	11	12	13						
234	1801289151	KAIBALYA PANDA	9	10	11	12						
235	1801289158	KUMAR ABHISEK	11	12	13	14						
236	1801289181	MOHAMMED EHTESHAM	10	11	12	13						
237	1801289244	RUDRA PRASAD NAYAK	10	11	12	13						
238	1801289283	SHUBHAM KUMAR SINGH	10	11	12	13						
239	1801289327	SUDIP SAHU	10	11	12	13						
240	1801289332	SUPRAVA PARIDA	10	11	12	13						
241	1801289343	SWASTIK SHUVAM SAHU	10	11	12	X						
242	1921289043	HAPPY MANGARAJ	10	11	12	13						
243	1921289044	PRIYABRATA SETHY	10	X	11	12						
244	1921289045	SK ASIF ALI	10	11	12	13						
245	1921289046	SUBHASHIS DASH	10	X	11	12						
246	1921289047	SUBHASISH MOHAPATRA	11	12	13	14						
247	1801289011	ABHISHEK KUMAR MISHRA	9	10	X	11						
248	1801289012	ABHISHEK SHARMA	11	12	13	14						
249	1801289014	ABINASH KAR	10	11	12	13						
250	1801289015	ABINASH PANDA	10	11	12	13						
251	1801289019	AJIT KUMAR BHUTIA	10	11	12	13						
252	1801289030	AMISHA SINGH	10	11	12	13						
253	1801289040	ANCHAL MOHAPATRA	10	11	12	13						
254	1801289046	ANKITA JENA	10	X	11	12						
255	1801289049	ANKITA ROUL	10	11	12	13						
256	1801289055	ANUSKA PANDA	10	11	12	13						
257	1801289056	ANWESHA ANURAKTA	9	10	11	12						
258	1801289059	ARIJIT MOHAPATRA	10	11	12	13						
259	1801289083	BARKHA SONI	11	12	13	14						
260	1801289089	BISHAL GHOSH	10	11	12	13						
261	1801289110	DEEPAK KUMAR MOHANTY	10	11	12	13						
262	1801289124	DURGA THAKUR	10	X	11	12						
263	1801289127	EKATA PRADHAN	10	11	12	13						
264	1801289147	JUGANT JOGIT MISHRA	11	12	13	X						
265	1801289154	KONA HARISH KUMAR	10	11	12	13						
266	1801289179	MOHAMMAD FAIZAN AKHTER	11	12	13	14						
267	1801289196	OMANANDA ARYA	9	10	11	12						
268	1801289199	PADMOJA PRADHAN	10	11	12	13						
269	1801289207	PRASANJEET BISWAL	11	12	13	14						
270	1801289218	PRITISH KUMAR NANDA	11	12	X	13						
271	1801289222	RAHUL BISWAL	10	11	12	13						
272	1801289224	RAHUL KUMAR	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
273	1801289238	RAUSHAN KUMAR	10	11	12	13						
274	1801289255	SAMEER KUMAR PATRA	9	10	11	12						
275	1801289262	SARFI TAQWIN	10	11	12	13						
276	1801289269	SATYARANJAN KHUNTIA	10	11	12	13						
277	1801289276	SHOAIB AKHTER	11	12	13	X						
278	1801289278	SHREEYA MOHANTY	11	12	13	X						
279	1801289282	SHUBHAM KUMAR PATRO	10	11	12	13						
280	1801289285	SIBA SANKAR PADHI	10	11	12	13						
281	1801289288	SIMRAN BEHERA	11	12	13	14						
282	1801289294	SMRUTI SMITA PRIYADARSHINI	10	11	12	13						
283	1801289303	SOUMYA RANJAN ROUT	11	12	13	X						
284	1801289309	SOURABH KUMAR JENA	11	12	13	X						
285	1801289315	SUBHAM SINHA	10	11	12	13						
286	1801289317	SUBHASHANKAR SENAPATI	10	11	12	13						
287	1801289324	SUBRAT MOHANTY	10	11	12	13						
288	1801289325	SUBRAT SWAIN	10	11	12	13						
289	1801289334	SURAJ DUTTA	10	11	12	13						
300	1801289339	SUSOBHAN SETHI	11	12	13	X						
301	1801289346	SWAYAM PRAKASH PATNAIK	10	11	12	13						
302	1801289349	SWETA SUMAN MOHANTY	10	11	12	13						
303	1801289351	SYED RAFIKUJ JAMAL	11	X	12	13						
304	1801289353	TANMAY KUMAR MISHRA	11	12	13	14						
305	1801289357	TUSAR MOHANTY	11	12	13	14						
306	1801289361	VARSHA CHAR MODAK	10	11	X	12						
307	1801289363	VISHAL KUMAR MISHRA	10	11	12	13						
308	1921289057	RIYA MAJUMDER	10	11	12	13						
309	1921289058	SARVESH KUMAR	10	11	12	13						
310	1921289059	SUMIT MISHRA	11	12	X	13						
311	1921289060	TEJASWINI BEHERA	10	11	12	13						
312	1922289061	SHREETAM CHOUDHURY	10	11	12	13						
313	1922289062	ROHIT KUMAR AGARWAL	10	11	12	X						
314	1922289063	KAMAL KUMAR NAYAK	11	12	13	14						
315	1922289064	RK SHAKTI CHANDAN PATTANAYAK	11	X	12	13						
316	1922289065	PRITIRANJAN SAHOO	10	11	12	13						
317	1801289325	SUBRAT SWAIN	10	11	12	13						
318	1801289334	SURAJ DUTTA	11	12	13	14						
319	1801289339	SUSOBHAN SETHI	10	11	12	13						
320	1801289346	SWAYAM PRAKASH PATNAIK	11	12	13	14						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
321	1801289005	ABHIJIT SARANGI	10	11	12	13						
322	1801289009	ABHISEK ROUT	10	11	12	13						
323	1801289013	ABHISHEK SINGH	11	12	13	14						
324	1801289018	ADITYA KUMAR	11	12	13	14						
325	1801289048	ANKITA PALAI	10	11	12	13						
326	1801289052	ANSHUMAN RAY	10	11	12	13						
327	1801289077	AYUSH KUMAR SINGH	10	11	12	13						
328	1801289084	BARSA PRIYADARSHINI SAMAL	10	11	12	13						
329	1801289108	DEBJYOT MOHANTY	10	11	12	13						
330	1801289122	DINESH KUMAR SETHI	11	12	13	14						
331	1801289126	DWITI KRISHNA SETHY	10	11	12	13						
332	1801289155	KRISHNA PRASAD SETHI	10	11	12	13						
333	1801289175	MEGHNA PRIYADARSHANI	10	11	12	13						
334	1801289191	NIKITA MOHANTY	10	11	12	13						
335	1801289195	NITISH KUMAR YADAV	11	12	13	14						
336	1801289209	PRATEEK PRIYADARSHI	10	11	12	13						
337	1801289211	PRATYUSH KUMAR ROY	11	12	13	14						
338	1801289242	RITESH KUMAR	11	12	13	14						
339	1801289273	SHIBA NANDA SAHOO	11	12	13	14						
340	1801289286	SIBASISH SETHY	10	11	12	13						
341	1801289302	SOUMYA RANJAN NAYAK	10	11	12	13						
342	1801289347	SWAYAM PRAVA PRADHAN	10	11	12	13						
343	1921289001	ABANTIKA NAYAK	10	11	12	13						
344	1921289002	ABHISEK BEHERA	10	11	12	13						
345	1921289003	ABHISHEK GOCHHAYAT	10	11	12	13						
346	1921289004	ADITYA ASHUTOSH NARAYAN	10	11	12	13						
347	1921289005	ANINDITA SARANGI	10	11	12	13						
348	1921289006	ANKITA DAS	10	11	12	13						
349	1921289007	BHARATENDU NAYAK	11	12	13	14						
350	1921289008	BISWAJIT BISWAL	10	11	12	13						
351	1921289009	CHINMAYA BISOI	8	9	10	11						
352	1921289010	GOURI RANI	11	12	13	14						
353	1921289011	HIMANSU SEKHAR BARIK	10	11	12	13						
354	1921289012	MONALISHA PRIYADARSHINI	10	11	12	13						
355	1921289013	NIRUTA JENA	11	12	13	14						
356	1921289014	PADMAJA GHOSH	10	11	12	13						
357	1921289015	SADASIBA SOREN	10	11	12	13						
358	1921289016	SARADA PRASAD JENA	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
359	1801289001	ABANISH MUDULI	90	11	12	13						
360	1801289002	ABDUL AABID KHAN	9	10	11	12						
361	1801289003	ABHIJEET MOHANTY	11	12	13	14						
362	1801289010	ABHISHEK KUMAR	10	11	12	13						
363	1801289016	ADARSH DHIR	11	12	13	14						
364	1801289017	ADITYA ASHUTOSH	9	10	11	12						
365	1801289020	AKANKSHA DAS	9	10	11	12						
366	1801289021	AKASH KUMAR	10	11	12	13						
367	1801289026	AMAN MOHANTY	10	11	12	13						
368	1801289027	AMAN RAJ	11	12	13	14						
369	1801289031	AMIT GIRI	10	11	14	13						
370	1801289033	AMIT KUMAR SINGH	9	10	11	12						
371	1801289034	AMITABH TARENIA	9	10	11	12						
372	1801289035	AMIYA PALAI	10	11	12	13						
373	1801289037	AMLAN KUMAR NANDY	11	12	13	14						
374	1801289038	ANANYA DASH	11	12	13	14						
375	1801289039	ANANYA PRIYADARSHINI MANTRY	10	11	12	13						
376	1801289042	ANIMESH SAHOO	11	12	13	X						
377	1801289043	ANJALI KUMARI	10	11	12	X						
378	1801289044	ANKIT BHUYAN	10	11	12	13						
379	1801289045	ANKITA BHUYAN	11	12	13	14						
380	1801289051	ANKITA SINGH	11	12	13	14						
381	1801289058	ARCH SATPATHY	11	12	13	14						
382	1801289060	ARKASARATHI DAS	10	11	12	13						
383	1801289061	ARPIT ABHISHEK MOHANTY	10	11	12	13						
384	1801289066	ASHISH KUMAR JENA	10	11	12	13						
385	1801289067	ASHISH KUMAR MOHAPATRA	11	12	13	14						
386	1801289068	ASHISH RANJAN	11	12	13	14						
387	1801289069	ASHRIBAD BEHERA	10	11	12	13						
388	1801289070	ASHUTOSH JENA	10	11	12	13						
389	1801289073	AURPITA SWAIN	9	10	11	12						
390	1801289074	AVI KUMAR	10	11	12	13						
391	1801289075	AYASKANTA BEHERA	11	12	13	14						
392	1801289076	AYESHKANT LENKA	10	11	12	13						
393	1801289078	AYUSH PANDEY	11	12	13	14						
394	1801289079	AYUSH SHARMA	11	12	13	14						
395	1801289082	BAISALI DAS	10	11	12	13						
396	1801289085	BHABANI SHANKAR NAYAK	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
397	1801289087	BINIT JAISWAL	10	11	12	13						
398	1801289088	BISHAL ACHARYA	10	11	12	13						
399	1801289090	BISHAL MALLICK	11	X	12	13						
400	1801289091	BISHNU PRASAD PANDA	10	11	12	13						
401	1801289096	BISWAJIT SAHOO	10	11	X	12						
402	1801289098	CHANDRA SHEKHAR JENAMONI	11	X	12	13						
403	1801289099	CHANDRAPRAVA MOHANTY	11	X	12	13						
404	1801289100	CHINMAYA SAMANTARA	10	11	12	13						
405	1801289101	CHIRANJIBEE MOHAPATRA	10	11	12	13						
406	1801289102	CHITTA RANJAN BISWAL	9	10	11	12						
407	1801289103	DANISH QUAMAR KHAN	11	X	12	13						
408	1801289104	DEBABRATA DEHURY	11	12	13	14						
409	1801289106	DEBASISH PANDA	9	10	11	12						
410	1801289107	DEBASISH SWAIN	11	12	13	14						
411	1801289114	DHIRAJ KUMAR SINGH	10	11	12	13						
412	1801289115	DIBYA BHARATI DAS	11	12	X	13						
413	1801289117	DIBYAPRAKASH PRUSTY	10	11	12	X						
414	1801289118	DIBYARANJAN BARIK	9	10	11	12						
415	1801289120	DIKSHA PRASAD	11	12	13	14						
416	1801289121	DINESH JENA	10	11	12	13						
417	1801289123	DIPANSHU ROUTRAY	10	11	X	12						
418	1801289125	DURGASISH MISHRA	11	12	13	14						
419	1801289128	GANESH SOREN	10	11	12	13						
420	1801289129	GAURIPRASAD LENKA	11	12	13	14						
421	1801289132	GYANAJIT DAS	11	12	13	14						
422	1801289134	HEEM ANANYA TANTI	11	X	12	13						
423	1801289137	HITESH KUMAR MAHANTA	10	11	12	13						
424	1801289139	ITISHREE DAS	10	11	12	13						
425	1801289140	JAGAN MOHAPATRA	11	12	13	14						
426	1801289141	JAGAN MOHARANA	11	12	13	X						
427	1801289142	JAYAKRUSHNA ROUT	11	12	13	14						
428	1801289145	JINGYANSHU RANJAN RAUTARAY	10	X	11	12						
429	1801289146	JOTIRAJ MAJHI	10	11	12	13						
430	1801289148	JYOTI PRAKASH CHIRANJIV	10	11	12	13						
431	1801289149	JYOTI PRAVA NAYAK	10	11	12	13						
432	1801289087	BINIT JAISWAL	11	X	12	13						
433	1801289088	BISHAL ACHARYA	10	11	12	13						
434	1801289090	BISHAL MALLICK	10	11	12	13						
435	1801289006	ABHINAV ARYAN	11	11	12	13						
436	1801289023	AKSHITA	10	X	11	12						
437	1801289004	ABHIJIT PRIYADARSHI PARIDA	10	11	12	13						

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10						
438	1801289087	BINIT JAISWAL	10	11	X	12						
439	1801289088	BISHAL ACHARYA	9	10	11	12						
440	1801289090	BISHAL MALLICK	10	11	12	13						
441	1801289091	BISHNU PRASAD PANDA	9	10	11	12						
442	1801289096	BISWAJIT SAHOO	11	12	13	14						
443	1801289098	CHANDRA SHEKHAR JENAMONI	10	11	12	13						
444	1801289099	CHANDRAPRAVA MOHANTY	9	10	11	12						
445	1801289100	CHINMAYA SAMANTARA	10	11	12	X						
446	1801289101	CHIRANJIBEE MOHAPATRA	11	12	13	X						
447	1801289102	CHITTA RANJAN BISWAL	10	11	12	13						
448	1801289103	DANISH QUAMAR KHAN	10	11	12	13						

Signature of Teacher

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Principal
Trident Academy of Technology
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Date:12.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start a certificate course in "Mastering Java Programming" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 16.09.2019, we are planning to start an add-on course on "Mastering Java Programming" from 27.09.2019 for our B. Tech students. The objective of this course is to provide a strong foundation in Java for our students with the necessary skills to develop real-world applications. The course duration and schedule are attached for your approval.

Thanking You,

(HOD, CSE)

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SYLLABUS

Mastering Java Programming

Total Lecture Periods: 48 hrs
Course Objectives:

This course is designed to provide students with a comprehensive understanding of the Java programming language, covering both basic and advanced concepts. Students will gain hands-on experience in Java development, preparing them for industry-level programming tasks and enhancing their problem-solving abilities. The course will also prepare students for coding interviews, competitive exams, and software development roles.

MODULES

Module-I: Introduction to Java Programming [12 periods]

- Overview of Java and its features
- Setting up the Java development environment (JDK, IDEs)
- Basic syntax, variables, data types, and operators
- Control structures (if-else, switch, loops)
- Functions and methods
- Object-Oriented Programming (OOP) basics: Classes, Objects, and Methods

Module-II: Advanced Java Concepts [12 periods]

- Object-Oriented Programming (OOP) Concepts: Inheritance, Polymorphism, Encapsulation, and Abstraction
- Exception Handling: Try-Catch, Finally, Throw, and Throws
- Java Collections Framework: List, Set, Map, Queue, etc.
- Generics and Iterators
- Multi-threading and Concurrency

Module-III: Java GUI and File I/O [12 periods]

- Introduction to Java Swing for GUI development
- Event handling and GUI components (Buttons, Text Fields, Panels, etc.)
- File I/O (Input/Output streams, File Reader, File Writer)
- Serialization in Java

Module-IV: Database Connectivity and Advanced Topics [12 periods]

- Introduction to JDBC (Java Database Connectivity)
- Connecting Java applications with databases (MySQL/PostgreSQL)

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- CRUD operations using JDBC
- Lambda expressions and Streams API in Java 8
- Introduction to Java Frameworks (Spring, Hibernate)
- Basic Introduction to Java-based Web Development (Servlets, JSP)

Course Outcomes

After completing the course, students will be able to:

- **CO1**: Write Java programs using object-oriented principles.
- **CO2**: Understand and apply advanced Java concepts like multi-threading, exception handling, and database connectivity.
- **CO3**: Develop graphical user interfaces (GUIs) using Java Swing.
- **CO4**: Connect Java applications with relational databases using JDBC.
- **CO5**: Solve real-world programming problems using Java's advanced features (e.g., streams, lambdas, etc.).
- **CO6**: Work on projects involving Java and integrate external libraries and frameworks.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificate will be awarded to students who successfully complete the course and assessment.

Suggested Learning Resources

- **Books**:
    1. "Head First Java" by Kathy Sierra and Bert Bates
    2. "Effective Java" by Joshua Bloch

Rahul Ranjan
(Course Instructor)

(HOD, CSE)

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SCHEDULE

Mastering Java Programming

Sl No	Date	Time	Course Content
1	27.09.2021	3:00PM-6:00PM	Overview of Java and its features, Setting up the Java development environment (JDK, IDEs)
2	28.09. 2021	3:00PM-6:00PM	Basic syntax, variables, data types, and operators, Control structures (if-else, switch, loops)
3	30.09. 2021	3:00PM-6:00PM	Functions and methods, Classes, Objects, and Methods
4	01.10. 2021	3:00PM-6:00PM	Inheritance, Polymorphism, Encapsulation, and Abstraction
5	04.10. 2021	3:00PM-6:00PM	Try-Catch, Finally, Throw, and Throws, Java Collections Framework (List, Set, Map, Queue)
6	05.10. 2021	3:00PM-6:00PM	Generics, Iterators, Multi-threading, and Concurrency
7	07.10. 2021	3:00PM-6:00PM	Java Swing for GUI, Event handling, GUI components (Buttons, Text Fields, Panels, etc.)
8	08.10. 2021	3:00PM-6:00PM	Input/Output streams, File Reader
9	09.10. 2021	3:00PM-6:00PM	Basics of JDBC, Connecting Java applications to databases
10	11.10. 2021	3:00PM-6:00PM	Lambda expressions, Streams API, I
11	12.10. 2021	3:00PM-6:00PM	introduction to frameworks Spring
12	13.10. 2021	3:00PM-6:00PM	File Writerin Java
13	14.10. 2021	3:00PM-6:00PM	CRUD operations using JDBC
14	15.10. 2021	3:00PM-6:00PM	Serialization in Java

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15	16.10. 2021	3:00PM-6:00PM	introduction to frameworks Hibernate
16	18.10. 2021	3:00PM-6:00PM	MySQL
17	19.10. 2021	5:00PM-6:00PM	Assessment

Rahul Ranjan
(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:14.09.2021

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Mastering Java Programming" starting from 27.09.2021. Interested students must register on or before 20.09.2021. The course details are as follows:

- Course Name: Mastering Java Programming
- Instructor Name: Rahul Ranjan
- Registration Contact:9437920600

Principal
Trident Academy of Technology
Bhubaneswar-751024

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Principal
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Bhubaneswar-751024

Date: 21.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering Java Programming".

Respected Sir,

We are going to start a course on " Mastering Java Programming " from 27.09.2021 and a total of 72 Students have enrolled for this course. This is for your kind information.

Rahul Ranjan
(Course Instructor)

(HOD, CSE)
HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:19.10.2021

JAVA

ASSESSMENT

Name Of the Student: Ankit Bhuyan

Regd No: 1801289044

9/10

All Questions Compulsory

Q1: What is the primary feature of Java that makes it platform-independent?

A) Pointers B) Bytecode and JVM

C) Header files D) Assembly language

Q2: Which keyword is used to define a class in Java?

A) function B) define

C) class D) structure

Q3: What will be the output of the following code snippet?

```
int x = 5;
System.out.println(x++ + ++x);
```

A) 10 B) 11

C) 12 D) 13

Q4: Which of the following is NOT a Java data type?

A) int B) float

C) real D) boolean

Q5: What is the purpose of the `finally` block in Java exception handling?

A) It executes only if an exception is thrown

B) It ensures execution of statements regardless of an exception

C) It stops exception propagation

D) It is used to define an alternative try block

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Q6: Which collection class in Java allows duplicate elements and maintains insertion order?

A) HashSet B) TreeSet

C) ArrayList D) HashMap

Q7: What is multithreading in Java?

A) Running multiple Java programs at once

B) Running multiple threads simultaneously to perform tasks concurrently

C) Running a program in multiple JVMs

D) Executing only one task at a time

Q8: Which method is used to read a file in Java?

A) File.open() B) Scanner.read()

C) FileReader.read() D) System.input()

Q9: What is JDBC used for in Java?

A) Connecting Java programs to databases B) Creating Java GUI applications

C) Writing XML files D) Running Java applets

Q10: Which Java framework is widely used for enterprise application development?

A) Swing B) JavaFX

C) Spring D) AWT

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V Trident Academy of Technology

Attendance Sheet

Name of the Teacher: RAHUL RANJAN **Month/Year:** 9/19

Subject Code: **Branch:**

Subject: Mastering in Java Prog.

Sl. No	REGD NO	NAME	27/09	28/09	30/09	01/10	04/10	05/10	07/10	08/10	09/10	11/10
1	1801289001	ABANISH MUDULI	1	2	3	4	5	6	X	7	8	9
2	1801289002	ABDUL AABID KHAN	1	2	3	4	5	6	7	8	9	10
3	1801289003	ABHIJEET MOHANTY	1	2	3	4	5	6	7	8	9	10
4	1801289010	ABHISHEK KUMAR	1	X	2	3	4	5	6	7	8	9
5	1801289016	ADARSH DHIR	1	2	3	4	5	6	7	8	9	10
6	1801289017	ADITYA ASHUTOSH	1	2	3	4	X	5	6	7	8	9
7	1801289020	AKANKSHA DAS	1	2	3	4	5	6	7	8	9	10
8	1801289021	AKASH KUMAR	1	2	3	X	4	X	5	6	7	8
9	1801289026	AMAN MOHANTY	1	2	3	4	5	6	7	8	9	10
10	1801289027	AMAN RAJ	1	X	2	3	4	5	6	7	8	9
11	1801289031	AMIT GIRI	1	2	X	3	4	5	6	7	8	9
12	1801289033	AMIT KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
13	1801289034	AMITABH TARENIA	1	2	3	4	5	6	7	8	9	10
14	1801289035	AMIYA PALAI	1	2	3	4	5	6	7	8	9	10
15	1801289037	AMLAN KUMAR NANDY	1	2	3	4	5	X	6	7	8	9
16	1801289038	ANANYA DASH	1	2	3	4	5	6	7	8	9	10
17	1801289039	ANANYA PRIYADARSHINI MANTRY	1	2	X	3	4	5	6	7	8	9
18	1801289042	ANIMESH SAHOO	1	2	3	4	5	6	7	8	9	10
19	1801289043	ANJALI KUMARI	1	2	3	4	5	6	7	8	9	10
20	1801289044	ANKIT BHUYAN	1	2	3	4	5	6	7	8	9	10
21	1801289045	ANKITA BHUYAN	1	2	3	4	5	6	7	X	8	9
22	1801289051	ANKITA SINGH	1	2	3	4	5	6	7	8	9	10
23	1801289058	ARCH SATPATHY	1	2	3	4	5	6	7	8	9	10
24	1801289060	ARKASARATHI DAS	1	2	3	4	5	6	7	8	9	10
25	1801289061	ARPIT ABHISHEK MOHANTY	1	2	3	4	5	6	7	8	9	10
26	1801289066	ASHISH KUMAR JENA	1	2	3	4	5	6	7	8	9	10
27	1801289067	ASHISH KUMAR MOHAPATRA	1	2	X	3	4	X	5	6	7	8
28	1801289068	ASHISH RANJAN	1	X	2	3	4	5	6	7	8	9
29	1801289069	ASHRIBAD BEHERA	1	2	3	4	5	6	7	8	9	10
30	1801289070	ASHUTOSH JENA	1	2	3	4	5	6	7	8	9	10
31	1801289073	AURPITA SWAIN	1	2	3	4	5	6	7	8	9	10
32	1801289074	AVI KUMAR	1	2	3	4	5	6	7	8	9	10

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Sl. No	REGD NO	NAME	27/09	28/09	30/09	01/10	04/10	05/10	07/10	08/10	09/10	11/10
33	1801289075	AYASKANTA BEHERA	1	2	3	4	5	6	7	8	9	10
34	1801289076	AYESHKANT LENKA	1	X	2	3	4	5	6	7	8	9
35	1801289078	AYUSH PANDEY	1	2	3	4	5	6	7	X	8	9
36	1801289079	AYUSH SHARMA	1	2	X	3	4	5	6	7	8	9
37	1801289082	BAISALI DAS	1	2	3	4	5	6	7	8	9	X
38	1801289085	BHABANI SHANKAR NAYAK	1	2	3	4	5	X	6	7	8	9
39	1801289087	BINIT JAISWAL	1	2	3	4	5	6	7	8	9	10
40	1801289088	BISHAL ACHARYA	1	2	3	4	5	6	7	8	9	10
41	1801289090	BISHAL MALLICK	X	1	2	3	4	5	6	7	8	9
42	1801289091	BISHNU PRASAD PANDA	1	2	3	4	5	6	7	8	9	10
43	1801289096	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
44	1801289098	CHANDRA SHEKHAR JENAMONI	1	X	2	3	4	5	6	7	8	9
45	1801289099	CHANDRAPRAVA MOHANTY	1	2	X	X	3	4	5	6	7	8
46	1801289100	CHINMAYA SAMANTARA	1	2	3	4	5	6	7	8	9	10
47	1801289101	CHIRANJIBEE MOHAPATRA	1	2	3	4	5	X	6	7	8	9
48	1801289102	CHITTA RANJAN BISWAL	1	2	3	4	5	6	7	8	9	10
49	1801289103	DANISH QUAMAR KHAN	1	X	2	3	4	5	6	7	8	9
50	1801289104	DEBABRATA DEHURY	1	2	3	4	5	6	7	8	9	10
51	1801289106	DEBASISH PANDA	1	2	3	X	4	X	5	6	7	8
52	1801289107	DEBASISH SWAIN	1	2	3	4	5	6	X	7	8	9
53	1801289114	DHIRAJ KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
54	1801289115	DIBYA BHARATI DAS	1	X	2	3	4	5	6	7	8	9
55	1801289117	DIBYAPRAKASH PRUSTY	1	2	3	4	5	X	6	7	8	9
56	1801289118	DIBYARANJAN BARIK	1	2	3	4	5	6	7	8	9	10
57	1801289120	DIKSHA PRASAD	1	2	3	4	5	6	7	8	9	10
58	1801289121	DINESH JENA	1	2	3	4	5	6	7	8	9	10
59	1801289123	DIPANSHU ROUTRAY	1	2	3	4	5	X	6	7	8	9
60	1801289125	DURGASISH MISHRA	1	2	3	4	5	6	7	8	9	10
61	1801289128	GANESH SOREN	1	X	2	3	4	5	6	7	8	9
62	1801289129	GAURIPRASAD LENKA	1	2	3	4	5	6	7	8	9	10
63	1801289132	GYANAJIT DAS	1	2	3	X	4	5	6	7	8	9
64	1801289134	HEEM ANANYA TANTI	1	2	3	4	5	X	6	7	8	9
65	1801289137	HITESH KUMAR MAHANTA	1	2	3	4	5	6	7	8	9	10
66	1801289139	ITISHREE DAS	1	2	3	4	5	6	7	8	9	10
67	1801289140	JAGAN MOHAPATRA	1	X	2	3	4	5	6	7	8	9
68	1801289141	JAGAN MOHARANA	1	2	3	4	5	6	7	8	9	10
69	1801289142	JAYAKRUSHNA ROUT	1	2	3	4	5	6	7	8	9	10
70	1801289145	JINGYANSHU RANJAN RAUTARAY	1	2	3	4	5	6	7	8	9	10
71	1801289146	JOTIRAJ MAJHI	1	2	3	4	5	6	7	8	9	10
72	1801289148	JYOTI PRAKASH CHIRANJIV	X	1	2	3	4	5	6	7	8	09

Signature of Teacher

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Bhubaneswar-751024

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Attendance Sheet

Name of the Teacher: Rahul Ranjan **Month/Year:**

Subject Code: **Branch:**

Subject: Mastering in Java Prog

Sl. No	REGD NO	NAME	12/10	13/10	14/10	15/10						
1	1801289001	ABANISH MUDULI	10	X	11	12						
2	1801289002	ABDUL AABID KHAN	11	12	13	14						
3	1801289003	ABHIJEET MOHANTY	11	12	13	14						
4	1801289010	ABHISHEK KUMAR	10	11	X	12						
5	1801289016	ADARSH DHIR	11	12	13	14						
6	1801289017	ADITYA ASHUTOSH	10	11	12	13						
7	1801289020	AKANKSHA DAS	11	12	13	14						
8	1801289021	AKASH KUMAR	9	10	11	12						
9	1801289026	AMAN MOHANTY	10	11	12	13						
10	1801289027	AMAN RAJ	10	11	12	13						
11	1801289031	AMIT GIRI	10	11	X	12						
12	1801289033	AMIT KUMAR SINGH	11	12	13	14						
13	1801289034	AMITABH TARENIA	11	12	13	14						
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31	1801289073	AURPITA SWAIN	11	12	X	13						
32	1801289074	AVI KUMAR	11	12	13	14						

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Sl. No	REGD NO	NAME	12/10	13/10	14/10	15/10						
33	1801289075	AYASKANTA BEHERA	11	X	12	13						
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66	1801289139	ITISHREE DAS	11	12	13	14						
67	1801289140	JAGAN MOHAPATRA	10	11	12	13						
68	1801289141	JAGAN MOHARANA	11	12	13	14						
69	1801289142	JAYAKRUSHNA ROUT	11	12	13	14						
70	1801289145	JINGYANSHU RANJAN RAUTARAY	11	12	13	14						
71	1801289146	JOTIRAJ MAJHI	11	12	13	14						
72	1801289148	JYOTI PRAKASH CHIRANJIV	10	11	12	13						

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 17.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 16.09.2021, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 27.09.2021. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

P Chand

(HOD, CSE)

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Computer Science Engg.

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SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 30hrs

Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [8 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [8 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [8 periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly
- Working with large datasets
- Case study: Data analysis of real-world data

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Module-IV: Advanced Python Topics [6 periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.
    - **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).

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- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

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Bhubaneswar-751024

SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	27/09/2021	3:00PM-6:00PM	Sorting and searching algorithms, time and space complexity analysis
2	28/09/2021	3:00PM-6:00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
3	29/09/2021	3:00PM-6:00PM	Data visualization with Matplotlib, Seaborn, and interactive plots using Plotly
4	30/09/2021	3:00PM-6:00PM	Working with large datasets and a case study on real-world data analysis
5	01/10/2021	3:00PM-6:00PM	OOP concepts in Python
6	04/10/2021	3:00PM-6:00PM	Case study on real-world data analysis
7	05/10/2021	3:00PM-6:00PM	Classes, Objects, and Methods
8	06/10/2021	3:00PM-6:00PM	Web scraping with Beautiful Soup and Requests
9	07/10/2021	3:00PM-6:00PM	File handling, and regular expressions
10	08/10/2021	4:00PM-6:00PM	Multi-threading, multiprocessing
11	09/10/2021	5:00PM-6:00PM	Assessment

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-18.09.2021

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 27.09. 2021.All interested students are required to register on or before 25.09.2021.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Sasmita Mishra

Registration Contact: Sasmita Mishra

Principal 18/9/21

Principal
Trident Academy of Technology
Bhubaneswar-751024

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(i) All HODs
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(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 26.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 27.09.2021 and a total of 62 Students have enrolled for this course. This is for your kind information.

Sasmita Mishra
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:09.10.2021

PYTHON
ASSESSMENT

Name Of the Student: Animesh Das
Regd No: L80/23 9041

All Questions Compulsory

Q1: Which of the following is the correct way to declare a variable in Python?
A) int x = 10
B) x = 10
C) x = 10
D) variable x = 10

Q2: Which data type is mutable in Python?
A) Tuple
B) String
C) List
D) Integer

Q3: What is the output of the following code snippet?

```
print (2 ** 3)
```

A) 6
B) 8
C) 9
D) 16

Q4: Which loop is used when the number of iterations is not known in advance?
A) For loop
B) While loop
C) Do-while loop
D) If-else loop

Q5: Which of the following is a correct way to handle exceptions in Python?
A) try-except
B) try-catch
C) exception handling
D) error handling

Q6: What is the time complexity of the binary search algorithm?
A) O(n)
B) O(log n)
C) $O(n^2)$
D) O(1)

Q7: Which Python library is primarily used for data manipulation?
A) Matplotlib
B) Seaborn
C) Pandas
D) TensorFlow

Q8: Which of the following methods is used to read a CSV file into a Pandas DataFrame?
A) pandas. read_csv()
B) pandas.load_csv()
C) pandas.open_csv()
D) pandas.import_csv()

Q9: Which module in Python is commonly used for web scraping?
A) NumPy
B) Requests
C) Beautiful Soup
D) TensorFlow

Q10: What is the purpose of the `with` statement in file handling?
A) To handle exceptions automatically
B) To open and close files automatically
C) To define a loop structure
D) To declare a variable

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: SASMITA MISHRA **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: Mastering Python through Guided Problem Solving

Sl. No	REGD NO	NAME	27/09/21	28/09/21	29/09	30/09	01/10	04/10	05/10	06/10	07/10	08/10
1	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	X	7	8	9
2	1801289028	AMAN RAJ	1	2	3	X	4	5	6	7	8	9
3	1801289032	AMIT KUMAR MISHRA	1	2	3	X	4	5	6	7	8	9
4	1801289041	ANIMES DAS	1	2	3	4	5	6	7	8	9	10
5	1801289072	ATUL KUMAR	1	2	3	4	5	6	7	8	9	10
6	1801289086	BIKASH KUMAR PATI	1	2	3	4	5	6	7	8	9	10
7	1801289095	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
8	1801289097	BISWOZEET SAHOO	1	2	3	4	5	6	7	8	9	10
9	1801289130	GIRIJA SANKAR DEO	1	2	3	4	5	6	7	8	9	10
10	1801289131	GOURAV SONWANEY	1	2	3	4	5	6	7	8	9	10
11	1801289133	HARAPRASAD HEMBRAM	1	2	3	4	5	X	6	7	8	9
12	1801289144	JEEBAN CHANDIPRASAD SAMAL	1	2	3	4	5	X	6	X	7	8
13	1801289157	KULDEEP SAHA	1	2	3	4	5	X	6	X	7	8
14	1801289166	MANAS RANJAN ROUT	1	2	3	4	5	6	7	X	8	9
15	1801289170	MANISH SINHA	1	2	3	4	5	6	7	8	9	10
16	1801289172	MD FAHAD	1	2	3	4	5	6	7	8	9	10
17	1801289173	MD YOUSUF REHAN	1	2	3	4	5	6	7	8	9	10
18	1801289208	PRASANT KUMAR SWAIN	1	2	X	3	4	5	6	7	8	9
19	1801289215	PRAVASH KUMAR DAS	1	2	3	4	5	6	7	8	9	10
20	1801289217	PRITAM JENA	1	2	3	4	5	6	7	8	9	10
21	1801289225	RAHUL KUMAR SHAW	1	X	2	3	4	5	6	7	8	9
22	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8	9	10
23	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
24	1801289275	SHIV SUNDAR JENA	1	2	3	4	5	6	7	8	9	10
25	1801289297	SOMANATH SAMAL	1	X	2	3	4	5	6	7	8	X
26	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	X
27	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8	9	X
28	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	10
29	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	8	9	10

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Sl. No	REGD NO	NAME	27/09/21	28/09	29/09	30/09	01/10	04/10	05/10	06/10	07/10	08/10
30	1921289080	TARUN KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
31	1921289062	ABHISEK JENA	1	2	3	4	X	5	6	7	8	9
32	1921289063	ABHISHEK PARIDA	1	2	3	4	X	5	6	7	8	9
33	1921289064	AMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
34	1921289065	ANMOL MISHRA	1	2	3	4	5	6	7	8	9	10
35	1921289066	CHIRANJIV RAY	1	X	2	3	4	5	6	7	8	9
36	1921289067	JNANANANDA SARANGI	1	2	3	4	5	6	7	8	9	10
37	1921289068	JYOTI DANIEL SAHU	1	2	X	3	4	5	6	7	8	9
38	1921289069	KISHAN SINGH	1	2	3	4	5	6	7	8	9	10
39	1921289070	NILESH KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
40	1921289071	NITESH KUMAR	1	2	3	X	4	5	6	7	X	8
41	1921289072	PRAKASH RANJAN NAYAK	1	2	3	4	5	6	7	8	X	9
42	1921289073	RAKESH SASMAL	1	2	3	4	5	6	7	8	X	9
43	1921289074	RASMI RANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
44	1921289075	SANJAYA KUMAR SAHU	1	2	3	4	5	6	7	8	9	10
45	1921289076	SIDHARTH BEHERA	1	2	3	4	5	6	7	8	9	10
46	1921289077	SOURAJIT PATRA	1	2	3	4	5	6	7	8	9	10
47	1921289078	SOUVIC ROY	1	2	3	4	5	6	7	8	9	10
48	1921289079	SUMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
49	1801289007	ABHISEK NAYAK	1	2	3	4	5	6	7	8	9	10
50	1801289008	AKSHAT SIDHARTH	1	2	3	4	5	6	7	8	9	10
51	1801289022	AMAN AKASH	X	1	2	3	4	5	6	7	8	9
52	1801289024	AMARESH SAMANTARAY	1	2	3	4	5	6	7	8	9	10
53	1801289029	ARYA KUMAR	1	2	3	4	5	6	7	8	9	10
54	1801289065	ANSHUMAN SWAIN	X	1	2	3	4	5	6	7	8	9
55	1801289071	ASHUTOSH PRASAD	1	2	3	4	5	6	7	8	9	10
56	1801289081	B SRAVAN KUMAR	1	2	3	4	5	6	7	8	9	10
57	1801289112	DEEPAK KUMAR SAHU	1	2	3	4	5	X	X	6	7	8
58	1801289181	MOHAMMED EHTESHAM	1	2	3	4	X	5	6	7	8	9
59	1801289244	RUDRA PRASAD NAYAK	X	1	2	3	X	4	5	6	7	8
60	1801289283	SHUBHAM KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
61	1801289327	SUDIP SAHU	1	2	X	3	4	5	6	X	7	8
62	1801289332	SUPRAVA PARIDA	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Attendance Sheet

Name of the Teacher: SMSMITA MISHRA **Month/Year:** 09/2021

Subject Code: **Branch:**

Subject: Mastering Python through Guided Problem Solving.

Sl. No	REGD NO	NAME	09/10										
1	1801289004	ABHIJIT PRIYADARSHI PARIDA	10										
2	1801289028	AMAN RAJ	10										
3	1801289032	AMIT KUMAR MISHRA	10										
4	1801289041	ANIMES DAS	11										
5	1801289072	ATUL KUMAR	11										
6	1801289086	BIKASH KUMAR PATI	11										
7	1801289095	BISWAJIT SAHOO	11										
8	1801289097	BISWOZEET SAHOO	11										
9	1801289130	GIRIJA SANKAR DEO	11										
10	1801289131	GOURAV SONWANEY	11										
11	1801289133	HARAPRASAD HEMBRAM	10										
12	1801289144	JEEBAN CHANDIPRASAD SAMAL	9										
13	1801289157	KULDEEP SAHA	9										
14	1801289166	MANAS RANJAN ROUT	10										
15	1801289170	MANISH SINHA	11										
16	1801289172	MD FAHAD	11										
17	1801289173	MD YOUSUF REHAN	11										
18	1801289208	PRASANT KUMAR SWAIN	10										
19	1801289215	PRAVASH KUMAR DAS	11										
20	1801289217	PRITAM JENA	11										
21	1801289225	RAHUL KUMAR SHAW	10										
22	1801289250	SAI GOURAV PATRA	11										
23	1801289260	SANTU MANDAL	11										
24	1801289275	SHIV SUNDAR JENA	11										
25	1801289297	SOMANATH SAMAL	X										
26	1801289306	SOUMYARANJAN SAHOO	X										
27	1801289320	SUBHENDU MUDULI	10										
28	1801289335	SURAJ KUMAR RAM	X										
29	1801289355	TARA PRASAD MAHAPATRA	11										

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Sl. No	REGD NO	NAME	09/10									
30	1921289080	TARUN KUMAR SWAIN	11									
31	1921289062	ABHISEK JENA	10									
32	1921289063	ABHISHEK PARIDA	10									
33	1921289064	AMIT KUMAR PANDA	11									
34	1921289065	ANMOL MISHRA	11									
35	1921289066	CHIRANJIV RAY	10									
36	1921289067	JNANANANDA SARANGI	11									
37	1921289068	JYOTI DANIEL SAHU	10									
38	1921289069	KISHAN SINGH	11									
39	1921289070	NILESH KUMAR SWAIN	11									
40	1921289071	NITESH KUMAR	9									
41	1921289072	PRAKASH RANJAN NAYAK	10									
42	1921289073	RAKESH SASMAL	10									
43	1921289074	RASMI RANJAN SAHOO	11									
44	1921289075	SANJAYA KUMAR SAHU	11									
45	1921289076	SIDHARTH BEHERA	11									
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56	1801289081	B SRAVAN KUMAR	11									
57	1801289112	DEEPAK KUMAR SAHU	9									
58	1801289181	MOHAMMED EHTESHAM	10									
59	1801289244	RUDRA PRASAD NAYAK	X									
60	1801289283	SHUBHAM KUMAR SINGH	11									
61	1801289327	SUDIP SAHU	9									
62	1801289332	SUPRAVA PARIDA	11									

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Date: 09.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B.Tech students.

Respected Sir,

As per our departmental meeting held on 09.09.2021, we are planning to start a course titled "Mastering Python through Guided Problem Solving" from 17.09.2021. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. The course aims to equip our students with practical Python skills that are essential for developing software applications, scientific computing, and data-driven solutions.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You,

(HOD, CSE)

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SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 48hrs

Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [12 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [12 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [12periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly
- Working with large datasets
- Case study: Data analysis of real-world data

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Module-IV: Advanced Python Topics [12periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with BeautifulSoup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Evaluation Methods**:
    - **Assignments**: Regular coding assignments and problem-solving tasks.
    - **Project**: A final project demonstrating the student's ability to apply Python programming to a real-world scenario (e.g., data analysis, app development, etc.).

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- **Exams**: A written exam at the end of the course to test theoretical and practical knowledge.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Partha Sarathi Mohapatra

Partha Sarthi Mohapatra
(Course Instructer)

PChand

(HOD,CSE)

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SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	21/09/2021	3:00PM-6:00PM	Overview of Python and its capabilities, Basic Python syntax and commands
2	22/09/2021	3:00PM-6:00PM	Data types, variables, operators, and control structures (loops and conditionals)
3	23/09/2021	3:00PM-6:00PM	Functions, modules, packages, debugging techniques, and exception handling
4	24/09/2021	3:00PM-6:00PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	25/09/2021	3:00PM-6:00PM	Stacks, Queues, Linked Lists, and their applications
6	27/09/2021	3:00PM-6:00PM	Sorting and searching algorithms, time and space complexity analysis
7	28/09/2021	3:00PM-6:00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	29/09/2021	3:00PM-6:00PM	Data visualization with Matplotlib, Seaborn, and interactive plots using Plotly
9	30/09/2021	3:00PM-6:00PM	Working with large datasets and a case study on real-world data analysis
10	01/10/2021	3:00PM-6:00PM	OOP concepts in Python
11	04/10/2021	3:00PM-6:00PM	Case study on real-world data analysis
12	05/10/2021	3:00PM-6:00PM	Classes,Objects, and Methods
13	06/10/2021	3:00PM-6:00PM	Web scraping with Beautiful Soup and Requests
14	07/10/2021	3:00PM-6:00PM	File handling, and regular expressions
15	08/10/2021	3:00PM-6:00PM	Multi-threading, multiprocessing
16	09/10/2021	4:00PM-6:00PM	Introduction to machine learning with Python
17	12/10/2021	5:00PM-6:00PM	Assesment

Partha Sarathi Mohapatra

Partha Sarthi Mohapatra
(Course Instructer)

PChanel

(HOD,CSE)

HOD
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-11/09/2020

This is to inform all the students of B.Tech that the department of CSE will start an add-on course on " Mastering Python through Guided Problem Solving " starting from 21.09. 2021.All interested students are required to register on or before 19.09.2021.

Course Name: Mastering Python through Guided Problem Solving

Instructor Name: Partha Sarthi Mohapatra

Registration Contact: Partha Sarthi Mohapatra

11/9/20

Principal

Principal
Trident Academy of Technology,
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Bhubaneswar-751024

Date : 20.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving".

Respected Sir,

We are going to start an add-on course on " Mastering Python through Guided Problem Solving " from 21.09.2021 and a total of 67 Students have enrolled for this course. This is for your kind information.

Partha Sarathi Mohapatra

Partha Sarthi Mohapatra
(Course Instructer)

P Chand

(HOD,CSE)
HOD
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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:12.10.2021

PYTHON
ASSESSMENT

Name Of the Student: Abhisek Das
Regd No: 1801289007

09/10

All Questions Compulsory

Q1: What is the correct syntax to print "Hello, World!" in Python?

A) print("Hello, World!")
B) echo "Hello, World!"
C) printf("Hello, World!")
D) cout << "Hello, World!";

Q2: Which data type is mutable in Python?

A) Tuple
B) String
C) List
D) Integer

Q3: What will be the output of the following code snippet?

```
x = [1, 2, 3]
y = x
y.append(4)
print(x)
```

A) [1, 2, 3]
B) [1, 2, 3, 4]
C) [1, 2]
D) Error

Q4: Which of the following is NOT a valid variable name in Python?

A) _variable
B) 2variable
C) variable_name
D) variable2

Q5: What is the purpose of the `break` statement in loops?

A) Skips the current iteration and continues with the next one
B) Stops the loop immediately
C) Exits the program
D) Does nothing

Q6: What is the output of `type(5/2)` in Python?

A) int
B) float
C) double
D) None

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Q7: Which module is used for data visualization in Python?

A) NumPy B) Pandas

C) Matplotlib D) Scikit-learn

Q8: How do you open a file in Python for reading?

A) open ("file.txt", "r") B) open ("file.txt", "w")

C) open ("file.txt", "a") D) open ("file.txt", "x")

Q9: What is the output of the following code?

```
def func(a, b=5):
    return a + b
print(func(3))
```

A) 8 B) 3

C) Error D) None

Q10: What is the purpose of the `self` keyword in Python classes?

A) It is a reference to the current instance of the class B) It declares a global variable

C) It is used to create static methods D) It is required in every function

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Attendance Sheet

Name of the Teacher: Paradha Sarathi Mohapatra **Month/Year:** Sept / 21

Subject Code: **Branch:**

Subject: Mastering in Python

Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
1	1801289007	ABHISEK DAS	1	2	3	4	5	6	X	7	8	9
2	1801289036	AMIYA RANJAN SWAIN	1	2	3	4	5	6	7	8	9	10
3	1801289053	ANSUMAN ACHARYA	1	2	3	4	5	6	7	8	9	10
4	1801289092	BISWA BINIT BEHERA	1	2	3	4	5	6	7	8	9	10
5	1801289093	BISWAJIT PATRA	1	2	3	4	5	6	7	8	9	10
6	1801289094	BISWAJIT PATTANAIK	1	2	3	4	5	6	7	8	X	9
7	1801289214	PRAVANJAN BEHERA	1	2	3	4	5	X	6	7	8	9
8	1801289240	RISHAV KUMAR	1	2	3	4	5	6	7	8	9	10
9	1801289253	SAI SWAROOP SAHU	1	2	3	4	5	6	7	8	9	10
10	1801289256	SANDEEP KUMAR PRADHAN	X	1	2	3	4	5	6	7	8	9
11	1801289263	SAROJ ROUTRAY	1	2	3	4	4	5	6	7	8	9
12	1921289048	AMAR KUMAR	1	2	3	4	5	6	7	8	9	10
13	1921289049	AYUSHMAN PANIGRAHI	1	2	X	3	4	5	6	7	X	8
14	1921289050	BIBEK SUNDARAY	1	2	3	4	5	6	7	8	9	10
15	1921289051	PRIYA RANJAN DWIBEDI	1	2	3	4	5	6	7	8	9	10
16	1921289052	SANTANU KUMAR SAHOO	1	2	3	X	4	5	6	7	8	9
17	1921289053	SMRITKISHAN DAS	1	2	3	4	5	6	7	8	9	10
18	1921289054	SOUMYA PRAKASH MISHRA	1	2	3	4	5	6	7	8	9	10
19	1921289055	SOUMYARANJAN PANIGRAHI	1	X	2	3	4	5	6	7	X	8
20	1921289056	SOYANSU MOHANTY	1	2	3	4	5	X	6	7	8	9
21	1801289295	SOBHAN DASH	1	2	3	4	5	6	7	8	9	10
22	1801289299	SONALI GARNAIK	1	2	3	4	5	X	6	7	8	9
23	1801289300	SOUMYA RANJAN DALAI	X	1	2	3	4	5	6	7	8	9
24	1801289304	SOUMYAJYOTI PATRA	1	2	3	4	5	6	7	8	9	10
25	1801289305	SOUMYAKANT TRIPATHY	1	2	3	4	5	6	7	8	9	10
26	1801289307	SOUMYASHREE GOUDA	1	2	3	4	5	X	6	7	X	8
27	1801289308	SOUNAK KUMAR DASH	1	2	3	4	5	6	7	8	9	10
28	1801289310	SOURAV KAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
29	1801289311	SOURAV PATTNAIK	1	2	3	4	5	6	7	8	9	10
30	1801289313	SUBHA RANJAN SAHOO	X	1	2	3	4	5	6	7	8	9
31	1801289314	SUBHADARSHINI SAMANTARAY	1	2	3	4	5	6	7	8	9	10
32	1801289316	SUBHAMSHREE MOHANTY	1	2	3	4	5	6	7	8	9	10

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Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	25/09	27/09	28/09	29/09	30/09	01/10
33	1801289006	ABHINAV ARYAN	1	2	3	X	4	5	6	7	X	8
34	1801289023	AKSHITA	1	2	3	4	5	6	7	8	9	10
35	1801289025	AMAN KUMAR SINGH	1	X	2	3	4	5	6	7	8	9
36	1801289050	ANKITA ROUT	1	2	3	4	5	6	7	8	9	10
37	1801289054	ANUBHAB PATTANAYAK	1	2	3	4	5	6	7	8	9	10
38	1801289057	APRAJEETA SINGH	1	2	3	4	5	6	7	8	9	10
39	1801289080	B BASUDEB PATRO	1	2	3	4	X	5	6	7	8	9
40	1801289105	DEBAJYOTI DAS	1	2	3	4	5	6	7	8	9	10
41	1801289109	DEBJYOTI BISWAL	X	1	2	X	3	4	5	6	7	8
42	1801289111	DEEPAK KUMAR NAYAK	X	1	2	3	4	5	6	7	8	9
43	1801289113	DHARANIDHAR SAHOO	1	2	3	4	5	6	7	8	9	10
44	1801289116	DIBYA RANJAN BEHERA	1	2	3	4	5	X	6	7	9	10
45	1801289119	DIBYASMITA SWAIN	1	2	X	3	4	5	6	7	9	10
46	1801289138	IPSITA DASH	1	2	3	4	5	6	7	8	9	10
47	1801289143	JAYDEEP GHATUARY	1	2	3	4	X	5	6	7	8	9
48	1801289168	MANBESH MOHANTY	1	2	3	4	5	6	7	8	9	10
49	1801289169	MANISH BHAGYASAGAR	1	2	3	4	5	6	7	8	9	10
50	1801289176	MINAL KUMARI MUKHI	1	2	3	X	4	5	6	7	8	9
51	1801289184	MRITUNJAY KUMAR PRASAD	1	X	X	2	3	4	5	6	7	8
52	1801289188	NIKHIL KUMAR	1	2	3	4	5	6	7	8	9	10
53	1801289193	NITISH AGRAWAL	1	2	3	4	5	6	7	8	9	10
54	1801289204	PRADYUMNA KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
55	1801289119	DIBYASMITA SWAIN	1	2	3	X	4	5	6	7	8	9
56	1801289229	RAJASHREE PRAHARAJ	1	2	3	4	5	6	7	8	9	10
57	1801289232	RAJDEEP RAHA	1	2	3	4	5	6	7	8	9	10
58	1801289239	RICHA KUMARI	1	X	2	3	4	X	5	6	7	8
59	1801289248	S TUSHAR	1	2	3	4	5	6	7	8	9	10
60	1801289249	SAGAR PATRA	1	2	3	4	5	6	7	8	9	10
61	1801289252	SAI SUBHASHREE	1	2	3	4	5	6	7	8	9	10
62	1801289261	SARBAJEET SINGH	1	2	3	4	5	6	7	8	9	10
63	1801289279	SHREYA BHARTI	1	2	3	4	5	6	7	8	9	10
64	1801289287	SIDHARTHA ACHARYA	1	X	2	3	4	5	6	7	8	9
65	1801289289	SIMRITA MISHRA	1	2	3	4	5	6	7	8	9	10
66	1801289296	SOFIA PANDA	1	2	3	4	5	X	6	7	8	9
67	1801289298	SONAL SHAILJA	1	2	3	4	5	6	7	8	9	10

Paratha Sarathi Mohapatra

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Partha Sarathi Mahapatra **Month/Year:** OCT/21

Subject Code: **Branch:**

Subject: Mathematics Pathway

Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10	08/10	09/10	12/10			
1	1801289007	ABHISEK DAS	10	11	12	13	14	15	16			
2	1801289036	AMIYA RANJAN SWAIN	11	12	13	14	15	16	X			
3	1801289053	ANSUMAN ACHARYA	11	12	13	14	15	16	17			
4	1801289092	BISWA BINIT BEHERA	11	X	12	X	13	14	15			
5	1801289093	BISWAJIT PATRA	10	11	12	13	14	15	16			
6	1801289094	BISWAJIT PATTANAIK	10	11	12	13	14	15	16			
7	1801289214	PRAVANJAN BEHERA	11	12	13	14	15	16	17			
8	1801289240	RISHAV KUMAR	11	12	13	14	15	16	17			
9	1801289253	SAI SWAROOP SAHU	11	12	13	14	15	16	17			
10	1801289256	SANDEEP KUMAR PRADHAN	10	11	X	12	13	14	15			
11	1801289263	SAROJ ROUTRAY	10	11	12	13	14	15	16			
12	1921289048	AMAR KUMAR	11	12	13	14	15	16	17			
13	1921289049	AYUSHMAN PANIGRAHI	9	10	11	12	13	14	15			
14	1921289050	BIBEK SUNDARAY	11	12	X	13	14	15	16			
15	1921289051	PRIYA RANJAN DWIBEDI	11	12	13	14	15	16	17			
16	1921289052	SANTANU KUMAR SAHOO	10	11	12	13	15	16	17			
17	1921289053	SMRITKISHAN DAS	11	X	12	13	14	15	16			
18	1921289054	SOUMYA PRAKASH MISHRA	11	12	13	14	15	16	17			
19	1921289055	SOUMYARANJAN PANIGRAHI	9	10	11	12	13	14	15			
20	1921289056	SOYANSU MOHANTY	10	11	12	13	14	X	15			
21	1801289295	SOBHAN DASH	11	12	13	14	15	16	17			
22	1801289299	SONALI GARNAIK	10	11	12	13	14	15	16			
23	1801289300	SOUMYA RANJAN DALAI	10	11	X	12	13	14	15			
24	1801289304	SOUMYAJYOTI PATRA	11	12	13	14	15	X	16			
25	1801289305	SOUMYAKANT TRIPATHY	11	12	13	14	15	16	17			
26	1801289307	SOUMYASHREE GOUDA	9	10	X	11	12	13	14			
27	1801289308	SOUNAK KUMAR DASH	11	11	12	13	14	15	16			
28	1801289310	SOURAV KAR MOHAPATRA	11	12	13	14	15	16	17			
29	1801289311	SOURAV PATTNAIK	11	12	13	14	15	16	17			
30	1801289313	SUBHA RANJAN SAHOO	10	11	X	12	13	14	15			
31	1801289314	SUBHADARSHINI SAMANTARAY	11	12	13	14	15	16	17			
32	1801289316	SUBHAMSHREE MOHANTY	11	12	13	14	15	16	17			

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Sl. No	REGD NO	NAME	04/10	05/10	06/10	07/10	08/10	09/10	12/10			
33	1801289006	ABHINAV ARYAN	9	10	11	12	13	14	15			
34	1801289023	AKSHITA	11	12	13	14	15	16	17			
35	1801289025	AMAN KUMAR SINGH	10	11	12	13	14	15	16			
36	1801289050	ANKITA ROUT	11	12	X	13	14	15	16			
37	1801289054	ANUBHAB PATTANAYAK	11	12	13	14	15	16	17			
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49	1801289169	MANISH BHAGYASAGAR	11	12	X	13	14	15	X			
50	1801289176	MINAL KUMARI MUKHI	10	11	12	13	14	15	16			
51	1801289184	MRITUNJAY KUMAR PRASAD	9	10	11	12	13	14	15			
52	1801289188	NIKHIL KUMAR	11	12	13	14	15	16	17			
53	1801289193	NITISH AGRAWAL	11	12	13	14	15	16	17			
54	1801289204	PRADYUMNA KUMAR MOHAPATRA	11	12	X	13	14	15	16			
55	1801289119	DIBYASMITA SWAIN	10	11	12	13	14	15	16			
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58	1801289239	RICHA KUMARI	09	10	11	12	13	14	15			
59	1801289248	S TUSHAR	11	12	X	13	14	15	16			
60	1801289249	SAGAR PATRA	11	12	13	14	15	16	17			
61	1801289252	SAI SUBHASHREE	11	X	12	13	14	15	16			
62	1801289261	SARBAJEET SINGH	11	12	13	14	15	16	17			
63	1801289279	SHREYA BHARTI	11	12	X	13	14	15	16			
64	1801289287	SIDHARTHA ACHARYA	10	11	12	13	14	15	16			
65	1801289289	SIMRITA MISHRA	11	12	13	14	15	16	17			
66	1801289296	SOFIA PANDA	10	11	12	X	13	14	15			
67	1801289298	SONAL SHAILJA	11	12	13	14	15	16	17			

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 03.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course in "Web Development with PHP" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 02.09.2021, we are planning to introduce a add-on course on "Web Development with PHP" starting from 14.09.2021. The objective of this course is to provide a foundational understanding of web development using PHP, focusing on both front-end and back-end web technologies, including My SQL database integration. This course is designed for B. Tech students to develop essential skills in creating dynamic websites and web applications, preparing them for modern industry demands.

The course duration, schedule, and syllabus are attached for your kind perusal and approval.

Thanking You

P Charel

(HOD, CSE)

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SYLLABUS

Web Development with PHP

Total Lecture Periods: 48hrs

Course Objectives:
This course aims to introduce students to web development using PHP and provides practical skills to create dynamic websites and applications. Students will gain knowledge in front-end development using HTML, CSS, and JavaScript, while also learning to build back-end functionality with PHP and MySQL. The course emphasizes hands-on experience with web projects, focusing on building functional, database-driven websites.

MODULES

Module-I: Introduction to Web Development [12 periods]

- Overview of Web Development and the role of PHP in dynamic websites
- Basics of HTML5, CSS3, and JavaScript for front-end design
- Understanding the client-server architecture
- Setting up the PHP development environment (XAMPP, WAMP, or LAMP)
- Introduction to web forms and handling user inputs

Module-II: PHP Basics and Backend Development [12 periods]

- Introduction to PHP syntax, variables, and data types
- Operators, conditionals, and loops in PHP
- Functions and arrays in PHP
- Working with files and directories in PHP
- Handling form data (GET, POST) and form validation
- Introduction to sessions and cookies for user authentication

Module-III: Database Integration with MySQL [12 periods]

- Introduction to MySQL and setting up a MySQL database
- Connecting PHP with MySQL using MySQLi and PDO
- Performing CRUD (Create, Read, Update, Delete) operations with PHP and MySQL
- Query optimization techniques for faster database interactions
- Data validation and sanitization in web applications

Module-IV: Advanced PHP and Real-World Applications [12 periods]

- Introduction to object-oriented programming (OOP) in PHP
- Building dynamic websites with PHP and MySQL (User Registration, Login, etc.)
- Securing PHP applications: Authentication, Authorization, and Session Management

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- Building a simple CMS (Content Management System) with PHP
- Introduction to MVC architecture and frameworks (Laravel basics)
- Case studies and industry applications: e-commerce websites, blogs, etc.
- Debugging and testing PHP applications for quality assurance

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the basic concepts of web development and PHP.
- **CO2**: Build and deploy dynamic, database-driven websites using PHP and MySQL.
- **CO3**: Design and implement web forms, user authentication systems, and interactive interfaces.
- **CO4**: Understand Object-Oriented Programming (OOP) concepts and apply them in PHP projects.
- **CO5**: Build secure and efficient PHP applications using industry-standard practices.
- **CO6**: Work on real-world web development projects, implementing front-end and back-end technologies effectively.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is mandatory for all lectures and practical sessions.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be issued upon successful completion of the course and its assessments.

Suggested Learning Resources

- **Books**:
    1. "PHP and MySQL Web Development" by Luke Welling & Laura Thomson
    2. "Modern PHP: New Features and Good Practices" by Josh Lockhart
    3. "Learning PHP, MySQL & JavaScript" by Robin Nixon
    4. "PHP Objects, Patterns, and Practice" by Mika Schwartz

Arpita Nibedita
(Course Instructor)

(HOD, CSE)

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SCHEDULE

Web Development with PHP

Sl No	Date	Time	Course Content
1	14.09.2021	3:00PM-6:00PM	Basics of HTML5, CSS3, JavaScript, and client-server architecture.
2	15.09.2021	3:00PM-6:00PM	Installation and configuration of XAMPP, WAMP, or LAMP for PHP development.
3	16.09.2021	3:00PM-6:00PM	Variables, data types, operators, conditionals, and loops in PHP.
4	17.09.2021	3:00PM-6:00PM	Working with PHP functions, arrays, and basic data structures.
5	18.09.2021	3:00PM-6:00PM	Processing GET and POST data, form validation, and sanitization.
6	20.09.2021	3:00PM-6:00PM	Introduction to user authentication using PHP sessions and cookies..
7	21.09.2021	3:00PM-6:00PM	Setting up a MySQL database and performing basic database operations.
8	22.09.2021	3:00PM-6:00PM	Connecting PHP to MySQL using MySQL and PDO for CRUD operations.
9	23.09.2021	3:00PM-6:00PM	Techniques for improving query performance and optimizing database interactions.
10	24.09.2021	3:00PM-6:00PM	Introduction to classes, objects, inheritance, and polymorphism in PHP..
11	25.09.2021	3:00PM-6:00PM	Creating user registration, login systems, and simple content management systems (CMS).
12	27.09.2021	3:00PM-6:00PM	Integrating front-end with back-end to create dynamic web applications
13	28.09.2021	3:00PM-6:00PM	Deploying web applications using platforms like Heroku, Netlify, or AWS
14	29.09.2021	3:00PM-6:00PM	Database operations using MySQL and MongoDB, connecting databases to back-end
15	30.09.2021	3:00PM-6:00PM	Designing and implementing web applications
16	01.10.2021	4:00PM-6:00PM	Integrating web applications
17	02.10.2021	5:00PM-6:00PM	Assessment

Arpita Nibedita
(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:06.09.2021

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Web Development with PHP" starting from 14.09.2024. Interested students must register before 10.09.2024. The course details are as follows:

- Course Name: Web Development with PHP
- Instructor Name: Arpita Nibedita
- Registration Contact: Arpita Nibedita

Principal

06/09/21

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Bhubaneswar-751024

Date: 11.09.2021

To,

The Principal

Trident Academy of Technology,

Patia, Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Web Developer PHP".

Respected Sir,

We are going to start a course on " Web Developer PHP " from 14.09.2021 and a total of 69 Students have enrolled for this course. This is for your kind information.

Arpita Nibedita
(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes

Date:02.10.2021

WEB DEVELOPER PHP

ASSESSMENT

Name Of the Student: Sanket Bisoi

Regd No: 1801289259

10/10

All Questions Compulsory

Q1: What does PHP stand for?

A) Private Home Page
B) Personal Hypertext Processor
C) PHP: Hypertext Preprocessor
D) Preprocessed HTML Pages

Q2: Which of the following is NOT a valid PHP variable name?

A) $var_name
B) $2variable
C) $_variable
D) $variableName

Q3: Which superglobal variable in PHP is used to collect form data sent via the POST method?

A) $_FORM
B) $_DATA
C) $_POST
D) $_REQUEST

Q4: What is the correct way to include an external PHP file named "header.php"?

A) include "header.php";
B) import "header.php";
C) require_once "header.php";
D) Both A and C

Q5: What is the default file extension for PHP files?

A) .html
B) .php
C) .xml
D) .js

Q6: Which function is used to connect PHP to a MySQL database?

A) mysql_connect()
B) mysqli_connect()
C) connect_db()
D) db_connect()

Q7: What is the output of the following PHP code?

```
$x = 5;
$y = "5";
if ($x === $y) {
```

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```
cho "Equal";
se {
 echo "Not Equal";
```

A) Equal B) Not Equal

C) Error D) 5

Q8: Which method is used to start a session in PHP?

A) start_session() B) begin_session()

C) session_start() D) session_begin()

Q9: What is the purpose of the `isset()` function in PHP?

A) It checks if a variable is set and is not NULL B) It destroys a variable

C) It initializes a variable D) It checks the data type of a variable

Q10: Which PHP framework is based on the MVC architecture?

A) Laravel B) WordPress

C) Drupal D) Magento

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Arepita Nibedita **Month/Year:** Sept. 2021

Subject Code: **Branch:**

Subject: Web Developm with PHP

Sl. No	REGD NO	NAME	14/09	15/09	16/09	17/09	18/09	20/09	21/09	22/09	23/09	24/09
1	1801289254	SAKSHI BHARDWAJ	1	2	3	4	X	5	6	8	9	10
2	1801289257	SANDEEP KUMAR RANA	1	2	3	4	5	6	7	8	X	9
3	1801289259	SANKET BISHOI	1	2	3	4	5	6	X	7	8	9
4	1801289264	SASHIKANTA SIAL	1	2	3	X	4	5	6	7	8	9
5	1801289265	SATABDI MILAN BEURA	1	2	3	4	5	6	7	8	9	10
6	1801289266	SATYA PRAKASH MOHANTY	1	X	2	3	4	5	6	7	8	9
7	1801289267	SATYA RANJAN SAHOO	X	1	2	3	4	5	6	7	8	9
8	1801289268	SATYABRATA OJHA	1	2	3	4	X	5	6	7	X	8
9	1801289270	SATYASUMAN DASH	1	2	3	4	5	6	7	8	9	10
10	1801289271	SHAHJADA E SAQUALAIN	1	2	3	4	5	6	7	8	9	10
11	1801289272	SHAKTI PRASAD SAHOO	1	2	3	X	4	5	X	6	7	8
12	1801289274	SHIBA PRASAD MOHANTA	1	2	3	4	5	6	7	8	9	10
13	1801289277	SHOURYA KUMAR JHA	1	2	3	X	4	5	6	7	8	9
14	1801289280	SHUBHAM KESHRI	1	2	3	4	5	6	7	8	9	10
15	1801289281	SHUBHAM KUMAR	1	X	2	3	4	5	6	7	8	9
16	1801289284	SHUBHAM MISHRA	1	2	3	4	5	6	7	8	9	10
17	1801289290	SIPRA SAHOO	1	2	3	4	5	6	7	8	9	10
18	1801289291	SK NIZAMUDDIN	1	2	3	4	X	5	6	7	8	9
19	1801289292	SMRUTI DAS	1	2	3	4	5	X	6	7	8	9
20	1801289293	SMRUTI RANJAN KHUNTIA	X	1	2	3	4	5	6	7	8	9
21	1801289295	SOBHAN DASH	1	2	3	4	X	5	6	7	8	9
22	1801289299	SONALI GARNAIK	1	2	3	4	5	6	7	8	9	10
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30	1801289313	SUBHA RANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
31	1801289314	SUBHADARSHINI SAMANTARAY	1	2	3	4	5	6	7	8	9	10
32	1801289316	SUBHAMSHREE MOHANTY	1	2	3	4	X	5	6	7	8	9

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Sl. No	REGD NO	NAME	14/09	15/09	16/09	17/09	18/09	20/09	21/09	22/09	23/09	24/09
33	1801289319	SUBHASHREE PANDA	1	2	3	4	5	6	7	8	9	10
34	1801289322	SUBHRANSHU BED	1	2	3	X	4	5	6	7	8	9
35	1801289323	SUBHRANSU SEKHARA BEHERA	1	2	3	4	5	6	7	8	9	10
36	1801289326	SUCHETA KRUPALINI MOHARANA	1	2	3	X	4	5	6	7	8	9
37	1801289328	SUDIPTA ACHARYA	X	1	2	3	4	5	6	7	8	9
38	1801289329	SUMAN SOURAV PRUSTY	1	2	3	4	5	6	7	8	9	10
39	1801289330	SUMMI KUMARI	1	2	3	X	4	5	6	8	9	10
40	1801289333	SUPRIYA PRADHAN	1	2	3	4	5	6	7	8	9	10
41	1801289336	SURJEET PANIGRAHI	1	2	3	4	5	6	7	8	9	10
42	1801289337	SURYA PRATIVA NAYAK	1	2	3	X	4	5	X	6	7	8
43	1801289338	SUSHREE SATABDI MOHANTY	1	2	3	4	5	6	7	8	9	8
44	1801289340	SWACHI SWETA BEHERA	X	1	2	3	4	5	6	7	8	9
45	1801289341	SWADHIN ACHARYA	1	2	3	X	4	5	6	7	8	9
46	1801289342	SWARUP MISHRA	1	2	3	4	5	6	7	8	9	10
47	1801289345	SWATI PRUSTY	1	2	3	4	5	6	7	8	9	10
48	1801289348	SWEETY SAMANTA	1	2	3	X	4	5	X	6	7	8
49	1801289350	SWETAPADMA DAS	1	2	3	4	5	6	7	8	9	10
50	1801289352	TAISON NAYAK	1	2	3	X	4	5	6	7	8	9
51	1801289354	TANUSHREE MAHATO	1	2	3	4	X	5	6	7	X	8
52	1801289356	TRILOCHAN SAHOO	1	2	3	4	5	6	7	8	9	10
53	1801289358	TUSHAR RANJAN NAYAK	1	2	3	4	5	6	7	8	9	10
54	1801289359	UMMUL WARA	1	2	3	4	5	6	7	8	9	10
55	1801289362	VIKRANT SINGH	1	2	3	4	5	6	7	8	9	10
56	1801289365	VIVEKANAND PATNAIK	1	2	3	4	X	5	6	7	8	9
57	1801289366	WASEEM SHAH	1	X	2	3	4	5	6	7	8	9
58	1801289367	WRITCHIK BISWAL	1	2	3	4	5	6	7	8	9	10
59	1801289143	JAYDEEP GHATUARY	1	2	3	4	X	5	6	7	8	9
60	1801289331	SUNAINA MOHAPATRA	1	2	3	4	5	6	7	8	9	10
61	1921289024	ABHIJEET MAHAPATRA	1	2	3	4	X	5	6	7	8	9
62	1921289025	ANJALI MINZ	1	2	3	4	5	6	7	8	9	10
63	1921289026	APOORVA NAYAK	1	2	3	4	5	6	7	8	9	10
64	1921289027	BONGU VAIJAYANTHI	1	2	3	4	X	5	6	7	8	9
65	1921289028	CHOUDHURI SUBHANKAR DAS	X	1	2	3	4	5	6	7	8	9
66	1921289029	DEBIPRASAD DAS	1	2	3	X	4	5	6	7	8	9
67	1921289030	DIPRA BARDHAN	1	2	3	4	5	6	7	8	9	10
68	1921289031	JAYADEV JENA	1	2	3	4	5	6	7	8	9	10
69	1921289032	NIKHIL RANJAN SAMAL	1	2	3	X	4	5	6	7	8	9

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Arpita Nibedita. **Month/Year:** Sept. 2021

Subject Code: **Branch:**

Subject:

Sl. No	REGD NO	NAME	25/09	27/09	28/09	29/09	30/09	01/10	02/10			
1	1801289254	SAKSHI BHARDWAJ	11	12	13	X	14	15	16			
2	1801289257	SANDEEP KUMAR RANA	10	11	12	13	14	15	16			
3	1801289259	SANKET BISHOI	10	11	12	13	14	15	16			
4	1801289264	SASHIKANTA SIAL	10	11	X	12	13	14	15			
5	1801289265	SATABDI MILAN BEURA	11	12	13	14	15	X	16			
6	1801289266	SATYA PRAKASH MOHANTY	10	11	X	12	13	14	15			
7	1801289267	SATYA RANJAN SAHOO	10	11	12	13	14	X	15			
8	1801289268	SATYABRATA OJHA	9	10	11	12	13	12	13			
9	1801289270	SATYASUMAN DASH	11	X	12	13	14	15	16			
10	1801289271	SHAHJADA E SAQUALAIN	11	12	13	14	15	16	17			
11	1801289272	SHAKTI PRASAD SAHOO	9	10	11	12	13	14	15			
12	1801289274	SHIBA PRASAD MOHANTA	11	12	13	14	15	16	17			
13	1801289277	SHOURYA KUMAR JHA	10	11	12	13	14	15	16			
14	1801289280	SHUBHAM KESHRI	11	12	13	14	15	16	17			
15	1801289281	SHUBHAM KUMAR	X	10	X	11	12	13	14			
16	1801289284	SHUBHAM MISHRA	11	12	13	X	14	15	16			
17	1801289290	SIPRA SAHOO	11	12	13	14	15	16	17			
18	1801289291	SK NIZAMUDDIN	10	11	12	13	14	15	16			
19	1801289292	SMRUTI DAS	10	11	12	X	13	14	15			
20	1801289293	SMRUTI RANJAN KHUNTIA	10	11	12	13	14	15	16			
21	1801289295	SOBHAN DASH	10	11	12	13	14	15	16			
22	1801289299	SONALI GARNAIK	X	11	12	13	14	15	16			
23	1801289300	SOUMYA RANJAN DALAI	11	12	13	14	15	16	17			
24	1801289304	SOUMYAJYOTI PATRA	10	11	X	12	13	14	15			
25	1801289305	SOUMYAKANT TRIPATHY	11	12	13	14	15	16	17			
26	1801289307	SOUMYASHREE GOUDA	11	12	13	14	15	16	17			
27	1801289308	SOUNAK KUMAR DASH	11	12	13	14	15	16	17			
28	1801289310	SOURAV KAR MOHAPATRA	11	12	13	14	15	16	17			
29	1801289311	SOURAV PATTNAIK	11	12	13	14	15	16	17			
30	1801289313	SUBHA RANJAN SAHOO	X	11	12	13	14	15	16			
31	1801289314	SUBHADARSHINI SAMANTARAY	11	12	X	13	14	15	16			
32	1801289316	SUBHAMSHREE MOHANTY	10	11	12	13	14	15	16			

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Sl. No	REGD NO	NAME	25/09	26/09	28/09	29/09	30/09	01/10	02/10			
33	1801289319	SUBHASHREE PANDA	11	12	13	14	15	16	17			
34	1801289322	SUBHRANSHU BED	10	11	12	13	14	15	16			
35	1801289323	SUBHRANSU SEKHARA BEHERA	X	11	12	13	14	15	16			
36	1801289326	SUCHETA KRUPALINI MOHARANA	10	11	12	13	14	15	16			
37	1801289328	SUDIPTA ACHARYA	10	11	12	X	13	14	15			
38	1801289329	SUMAN SOURAV PRUSTY	11	12	13	14	15	16	17			
39	1801289330	SUMMI KUMARI	11	12	13	14	15	16	17			
40	1801289333	SUPRIYA PRADHAN	11	12	13	14	15	16	17			
41	1801289336	SURJEET PANIGRAHI	11	12	13	14	15	16	17			
42	1801289337	SURYA PRATIVA NAYAK	9	X	10	11	12	13	14			
43	1801289338	SUSHREE SATABDI MOHANTY	9	10	11	12	13	14	15			
44	1801289340	SWACHI SWETA BEHERA	10	X	11	12	13	14	15			
45	1801289341	SWADHIN ACHARYA	10	11	12	13	14	15	16			
46	1801289342	SWARUP MISHRA	11	12	13	14	15	16	17			
47	1801289345	SWATI PRUSTY	11	12	13	14	15	16	17			
48	1801289348	SWEETY SAMANTA	9	10	11	12	13	14	15			
49	1801289350	SWETAPADMA DAS	11	12	13	14	15	16	17			
50	1801289352	TAISON NAYAK	10	11	12	13	14	15	16			
51	1801289354	TANUSHREE MAHATO	9	10	11	12	13	14	15			
52	1801289356	TRILOCHAN SAHOO	11	12	13	X	14	15	16			
53	1801289358	TUSHAR RANJAN NAYAK	11	12	13	14	15	16	17			
54	1801289359	UMMUL WARA	11	12	13	14	X	15	16			
55	1801289362	VIKRANT SINGH	11	12	13	14	15	16	17			
56	1801289365	VIVEKANAND PATNAIK	10	X	11	12	13	14	15			
57	1801289366	WASEEM SHAH	10	11	12	13	14	15	16			
58	1801289367	WRITCHIK BISWAL	11	12	13	14	15	16	17			
59	1801289143	JAYDEEP GHATUARY	10	X	11	12	13	14	15			
60	1801289331	SUNAINA MOHAPATRA	11	12	13	14	15	16	17			
61	1921289024	ABHIJEET MAHAPATRA	10	11	12	13	14	15	16			
62	1921289025	ANJALI MINZ	11	12	13	14	15	16	17			
63	1921289026	APOORVA NAYAK	11	12	13	14	15	16	17			
64	1921289027	BONGU VAIJAYANTHI	10	11	12	13	14	15	16			
65	1921289028	CHOUDHURI SUBHANKAR DAS	10	11	12	X	13	14	15			
66	1921289029	DEBIPRASAD DAS	10	11	12	13	14	15	16			
67	1921289030	DIPRA BARDHAN	11	12	13	14	15	16	17			
68	1921289031	JAYADEV JENA	11	12	13	14	15	16	17			
69	1921289032	NIKHIL RANJAN SAMAL	10	11	12	13	14	15	16			

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 03.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start a certificate course on "Learning through NPTEL: Enhancing Knowledge through Online Education" for B. Tech, MCA & MBA students.

Respected Sir,

As per the departmental meeting held on 02.09.2021, we propose to introduce a certificate course titled "Learning through NPTEL: Enhancing Knowledge through Online Education" starting from 08.09.2021. This course aims to introduce B. Tech, MCA & MBA students to the NPTEL platform, guide them on how to register for courses, and use online learning resources effectively to enhance their technical knowledge.

NPTEL (National Programme on Technology Enhanced Learning) offers courses developed by the Indian Institutes of Technology (IITs) and Indian Institute of Science (IISc) on various engineering and technology topics, providing students with valuable learning experiences beyond their regular curriculum. This course will help them build proficiency in online learning, critical thinking, and self-paced education.

The course duration, schedule, and syllabus are attached for your perusal and approval.

Thanking You,

P Chaurel

(HOD, CSE)

HOD
Computer Science Engg.

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Bhubaneswar-751024

SYLLABUS

Learning through NPTEL: Enhancing Knowledge through Online Education

Total Lecture Periods: 40hrs

Course Objectives:

This course aims to provide students with an introduction to the NPTEL platform, which offers a wide range of online courses from IITs, IISc, and other premier institutes. Students will be guided on how to register for NPTEL courses, understand course structures, access learning materials, and prepare for assignments and exams. This course also aims to promote lifelong learning and critical thinking by encouraging students to explore specialized topics in technology and engineering.

MODULES

Module-I: Introduction to NPTEL and Online Learning [10 periods]

- Overview of NPTEL: A platform for online education and certification
- Types of courses available on NPTEL: Engineering, Science, Humanities, etc.
- How to register for NPTEL courses: Step-by-step guide
- Exploring course formats: Video lectures, assignments, quizzes, and exams
- Introduction to NPTEL certifications and their value in academic and professional careers

Module-II: Navigating the NPTEL Platform [10 periods]

- How to access and explore NPTEL courses on the portal
- Understanding the syllabus and structure of an NPTEL course
- How to access lecture videos, transcripts, and supplementary materials
- Utilizing the discussion forums and peer interaction for better understanding
- Downloading and organizing course materials for offline access

Module-III: Learning Techniques and Assignment Management [8 periods]

- Time management and creating a study plan for NPTEL courses
- How to approach video lectures and assignments effectively
- Working on assignments: Submission deadlines, best practices
- Taking quizzes and tests: Strategies for success
- Participating in online discussions and peer review
- Self-assessment and tracking progress

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Module-IV: Advanced Features and Certification [12 periods]

- How to earn NPTEL certificates and their significance
- Understanding exam structures and preparation tips for NPTEL exams
- How to use NPTEL certificates in career development
- Case studies: Successful use of NPTEL certifications for industry and academic applications
- Introduction to NPTEL for Final Year Projects: Using NPTEL knowledge in engineering projects
- Promoting self-directed learning through NPTEL

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the structure and features of the NPTEL platform.
- **CO2**: Register and access relevant courses offered by NPTEL in their field of study.
- **CO3**: Effectively utilize online learning resources (video lectures, assignments, quizzes).
- **CO4**: Manage time and study independently using NPTEL's self-paced learning model.
- **CO5**: Participate in NPTEL discussions and collaborate with peers to enhance learning.
- **CO6**: Earn NPTEL certificates and use them to complement their academic and professional credentials.

Evaluation Process

1. **Attendance**: Minimum 75% attendance in lectures and discussions is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and its assessments.
4. **Course Assignments and Discussions**: Active participation in assignments, quizzes, and course discussions will contribute to evaluation.

Suggested Learning Resources

- **Official NPTEL Website**: www.nptel.ac.in
- **Books**:
    1. "Introduction to Online Learning" by various authors
    2. "Learning How to Learn" by Barbara Oakley

Mohini Prasad Mishra
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.
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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Learning through NPTEL: Enhancing Knowledge through Online Education

Sl No	Date	Time	Course Content
1	09/09/2021	3:00PM-6:00PM	Overview, types of courses, and registration process.
2	10/09/2021	3:00PM-6:00PM	Video lectures, assignments, quizzes, exams, and certifications.
3	11/09/2021	3:00PM-6:00PM	Accessing courses, syllabus, and supplementary materials.
4	13/09/2021	3:00PM-6:00PM	Peer interaction and learning enhancement.
5	14/09/2021	3:00PM-6:00PM	Organizing and accessing offline resources.
6	15/09/2021	3:00PM-6:00PM	Creating effective study plans for NPTEL courses.
7	17/09/2021	3:00PM-6:00PM	Submission deadlines, best practices, and success strategies.
8	18/09/2021	3:00PM-6:00PM	Engaging with peers and tracking progress.
9	20/09/2021	3:00PM-6:00PM	Career and academic value of certifications.
10	21/09/2021	3:00PM-6:00PM	Leveraging NPTEL for projects and professional growth.
11	22/09/2021	3:00PM-6:00PM	Study plans for NPTEL courses
12	23/09/2021	3:00PM-6:00PM	Study plans for NPTEL courses
13	24/09/2021	3:00PM-6:00PM	Accessing courses, success strategies.
14	25/09/2021	5:00PM-6:00PM	Peer interaction and learning enhancement.

Mohini Prasad Mishra
(Course Instructor)

(HOD,CSE)
HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-04/09/2021

This is to inform all the students of B. Tech, MCA & MBA students that the department of CSE will start an add-on course on " Learning through NPTEL: Enhancing Knowledge through Online Education " starting from 09.09. 2021. All interested students are required to register on or before 07.09.2021.

Course Name: Learning through NPTEL

Instructor Name: Mohini Prasad Mishra

Registration Contact: Mohini Prasad Mishra

Principal

04/09/21

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 08.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Learning through NPTEL: Enhancing Knowledge through Online Education".

Respected Sir,

We are going to start an add-on course on " Learning through NPTEL: Enhancing Knowledge through Online Education " from 09.09.2021 and a total of 320 Students have enrolled for this course. This is for your kind information.

M P Mishra

Mohini Prasad Mishra
(Course Instructor)

P Cheral

(HOD,CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:01.10.2021

NPTEL
ASSESSMENT

Name Of the Student: Debasishi Sahu
Regd No: 2106289009

10/10

All Questions Compulsory

Q1: What does NPTEL stand for?

A) National Program on Technology Enhanced Learning

B) National Platform for Technical E-Learning

C) New Program for Technical Education and Learning

D) National Portal for Technology and E-Learning

Q2: Which institutions primarily manage the NPTEL platform?

A) IITs and IIMs B) IITs and IISc

C) AICTE and UGC D) NITs and IISc

Q3: What types of courses are available on NPTEL?

A) Only engineering and technology courses

B) Only science and humanities courses

C) Engineering, science, humanities, and management courses

D) Only management and medical courses

MPMishra

Q4: How can students access NPTEL courses?

A) Only through college registration B) By enrolling on the NPTEL website

C) By purchasing a subscription D) Through university recommendation only

Q5: What is the main advantage of obtaining an NPTEL certification?

A) It guarantees a government job B) It enhances career opportunities and academic credentials

C) It replaces the need for a college degree D) It is mandatory for all engineering students

Q6: What is the format of NPTEL course materials?

A) Only video lectures B) Only PDFs and lecture notes

C) Video lectures, assignments, quizzes, and transcripts D) Only practical lab work

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...L final exams typically conducted?

...at home B) At designated exam centers

C) Through viva-voce D) By submitting research papers

Q8: What is the duration of most NPTEL courses?

A) 2-3 weeks B) 4-12 weeks

C) 6 months D) 1 year

Q9: Which feature of NPTEL helps students interact with peers and instructors?

A) Discussion forums B) Recorded lectures

C) Weekly assignments D) Certificate issuance

Q10: How can an NPTEL certificate benefit a student in career development?

A) It acts as a replacement for work experience

B) It provides industry recognition and enhances a resume

C) It guarantees admission to IITs

D) It is mandatory for government jobs

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Mohini Prasad Mishra **Month/Year:** Sept/2021

Subject Code: **Branch:**

Subject: MPTEL

Sl. No	REGD NO	NAME	9/9	10/9	11/9	13/9	14/9	15/9	17/9	18/9	20/9	21/9
1	2106289001	AMIT KUMAR SWAIN	1	2	3	4	X	5	6	7	8	9
2	2106289002	ASHES KUMAR SWAIN	1	2	X	3	4	5	6	7	8	9
3	2106289003	ASHIS KUMAR BISWAL	X	1	2	3	4	5	6	7	8	9
4	2106289004	ASHUTOSH PRADHAN	1	2	X	3	4	5	6	7	8	9
5	2106289005	ASHUTOSH PRADHAN	1	2	3	4	5	6	7	8	9	10
6	2106289006	BEDAPRAKASH PRUSTY	1	2	3	4	5	6	7	8	9	10
7	2106289007	BHARGAVI DASH	1	2	3	4	5	6	7	8	9	10
8	2106289008	DEBABRATA FATHKAR	1	2	3	4	X	5	6	7	8	9
9	2106289009	DEBASHISH SAHU	1	2	3	4	5	6	X	7	8	9
10	2106289011	G ADITYA PRASAD PATRO	1	2	3	4	5	6	7	8	9	10
11	2106289012	GYANASWINEE NAYAK	X	1	2	3	4	5	6	7	8	9
12	2106289013	KAJAL SAHOO	1	2	3	4	5	6	7	8	9	10
13	2106289014	MADHURIMA MAHALA	1	2	3	4	5	6	7	8	9	10
14	2106289015	MADHUSMITA NAYAK	1	2	X	3	4	5	6	7	8	9
15	2106289016	MADHUSMITA NAYAK	1	2	3	4	5	6	7	8	9	10
16	2106289017	MANOJ KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10
17	2106289019	NITISH NAYAK	X	1	2	3	4	5	6	7	8	9
18	2106289020	PRADYUMNA SAHOO	1	2	3	4	5	6	7	8	9	10
19	2106289021	PRATEEKSHYA PATTANAYAK	1	2	3	4	5	6	7	8	9	10
20	2106289022	PRITI PRIYADARSHINI KALO	1	2	X	3	4	5	6	7	8	9
21	2106289023	RAHUL RAMAN BHOL	1	2	3	4	5	6	7	8	9	10
22	2106289024	RAJNI KUMARI LAGURI	1	2	3	4	5	6	7	8	9	10
23	2106289025	ROHAN KUMAR ACHARJYA	1	2	3	X	4	5	6	7	8	9
24	2106289026	RONAK JENA	1	2	3	4	5	6	7	8	9	10
25	2106289027	SAMEER PADHY	X	1	2	3	4	5	6	7	8	9
26	2106289028	SANGITA BEHERA	1	2	3	4	5	6	7	8	9	10
27	2106289029	SHRABANI KUMARI PANDA	1	2	X	3	4	5	6	8	9	10
28	2106289030	SIMRAN NAYAK	1	2	3	4	5	6	7	8	9	10
29	2106289032	SMRUTI REKHA BESHRA	1	2	3	X	4	5	6	7	8	9
30	2106289033	SMRUTIREKHA SWAIN	1	2	X	3	4	5	6	7	8	9
31	2106289034	SOURAV PRASAD DAS	1	2	3	4	5	6	7	8	9	10
32	2106289036	SUBHASHREE SUBHRAJYOTI NAYAK	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Sl. No	REGD NO	NAME	9/9	10/9	11/9	13/9	14/9	15/9	17/9	18/9	20/9	21/9
33	1801289006	ABHINAV ARYAN	1	2	3	X	4	5	6	7	8	9
34	1801289023	AKSHITA	1	2	3	4	5	6	7	X	8	9
35	1801289025	AMAN KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
36	1801289050	ANKITA ROUT	X	1	2	3	4	5	6	7	8	9
37	1801289054	ANUBHAB PATTANAYAK	1	2	3	X	4	5	6	7	8	9
38	1801289057	APRAJEETA SINGH	1	2	3	4	5	6	7	8	9	10
39	1801289080	B BASUDEB PATRO	1	2	3	4	5	6	7	8	8	9
40	1801289105	DEBAJYOTI DAS	1	2	3	4	5	6	7	8	9	10
41	1801289109	DEBJYOTI BISWAL	1	2	3	X	4	5	6	7	8	9
42	1801289111	DEEPAK KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
43	1801289113	DHARANIDHAR SAHOO	X	1	2	3	4	5	6	7	8	9
44	1801289116	DIBYA RANJAN BEHERA	1	2	3	4	5	6	7	8	9	10
45	1801289119	DIBYASMITA SWAIN	1	2	3	4	5	6	7	8	9	10
46	1801289138	IPSITA DASH	1	2	3	X	4	5	6	7	8	9
47	1801289143	JAYDEEP GHATUARY	1	2	3	4	5	6	7	8	9	10
48	1801289168	MANBESH MOHANTY	1	2	3	4	5	6	7	X	8	9
49	1801289169	MANISH BHAGYASAGAR	1	X	2	3	4	5	6	7	8	9
50	1801289176	MINAL KUMARI MUKHI	1	2	3	4	5	6	7	8	9	10
51	1801289184	MRITUNJAY KUMAR PRASAD	X	1	2	3	4	5	6	7	8	9
52	1801289188	NIKHIL KUMAR	1	2	3	4	5	6	7	8	9	10
53	1801289193	NITISH AGRAWAL	1	2	3	4	5	6	7	8	9	10
54	1801289204	PRADYUMNA KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	10
55	1801289119	DIBYASMITA SWAIN	1	X	2	3	4	5	6	7	8	9
56	1801289229	RAJASHREE PRAHARAJ	1	2	3	4	5	6	7	8	9	10
57	1801289232	RAJDEEP RAHA	1	2	3	4	5	6	7	8	9	10
58	1801289239	RICHA KUMARI	1	2	3	4	5	6	7	8	9	10
59	1801289248	S TUSHAR	X	1	2	3	4	5	6	7	8	9
60	1801289249	SAGAR PATRA	1	2	3	4	5	6	7	8	9	10
61	1801289252	SAI SUBHASHREE	1	2	3	4	5	6	7	8	9	10
62	1801289261	SARBAJEET SINGH	1	2	3	X	4	5	6	7	8	9
63	1801289279	SHREYA BHARTI	1	2	3	4	5	6	7	8	9	10
64	1801289287	SIDHARTHA ACHARYA	X	1	2	3	4	5	6	7	8	9
65	1801289289	SIMRITA MISHRA	1	2	3	4	5	6	7	8	9	10
66	1801289296	SOFIA PANDA	1	2	3	4	5	6	7	8	9	10
67	1801289298	SONAL SHAILJA	1	2	3	4	5	6	7	8	9	10
68	1801289301	SOUMYA RANJAN DAS	1	2	3	4	5	6	7	8	9	10
69	1801289312	SOVIT KUMAR DALAI	1	2	3	4	5	6	7	8	9	10
70	1801289331	SUNAINA MOHAPATRA	1	2	3	4	5	6	7	8	9	10
71	1801289344	SWASTIK SWAGATAM	1	2	3	4	5	6	7	X	8	9
72	1801289296	SOFIA PANDA	X	1	2	3	4	5	6	7	8	9

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Sl. No	REGD NO	NAME	9/9	10/9	11/9	13/9	14/9	15/9	17/9	18/9	20/9	21/9
73	1801289364	VIVEK KUMAR	1	2	3	4	5	6	7	8	9	10
74	1801289368	YESHYESWI	1	2	3	X	4	5	6	7	8	9
75	1921289061	BRUTITAPA MISHRA	1	2	3	4	5	6	7	8	9	10
76	1801289004	ABHIJIT PRIYADARSHI PARIDA	X	1	2	3	4	5	6	7	8	9
77	1801289028	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
78	1801289032	AMIT KUMAR MISHRA	1	2	3	4	5	6	7	8	9	10
79	1801289041	ANIMES DAS	1	2	3	X	4	5	6	7	8	9
80	1801289072	ATUL KUMAR	1	2	3	4	5	6	7	8	9	10
81	1801289086	BIKASH KUMAR PATI	1	2	3	4	5	6	7	8	9	10
82	1801289095	BISWAJIT SAHOO	X	1	2	4	5	6	7	8	9	10
83	1801289097	BISWOZEET SAHOO	1	2	3	4	5	6	7	8	9	10
84	1801289130	GIRIJA SANKAR DEO	1	2	3	4	5	6	7	8	9	10
85	1801289131	GOURAV SONWANEY	1	2	3	X	4	5	6	7	8	9
86	1801289133	HARAPRASAD HEMBRAM	1	2	3	4	5	6	7	8	9	10
87	1801289144	JEEBAN CHANDIPRASAD SAMAL	X	1	2	3	4	5	6	7	8	9
88	1801289157	KULDEEP SAHA	1	2	3	4	5	6	7	8	9	10
89	1801289166	MANAS RANJAN ROUT	1	2	3	4	5	6	7	8	9	10
90	1801289170	MANISH SINHA	1	2	3	4	5	6	7	8	9	10
91	1801289172	MD FAHAD	1	2	3	4	5	6	7	8	9	10
92	1801289173	MD YOUSUF REHAN	1	2	3	X	4	5	6	7	8	9
93	1801289208	PRASANT KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
94	1801289215	PRAVASH KUMAR DAS	1	2	3	4	5	6	7	8	9	10
95	1801289217	PRITAM JENA	1	2	3	4	5	6	7	8	9	10
96	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8	9	10
97	1801289225	RAHUL KUMAR SHAW	X	1	2	3	4	5	6	7	8	9
98	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8	9	10
99	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
100	1801289275	SHIV SUNDAR JENA	1	X	2	3	4	5	6	7	8	9
101	1801289297	SOMANATH SAMAL	1	2	3	4	5	6	7	8	9	10
102	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
103	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8	9	10
104	1801289335	SURAJ KUMAR RAM	X	1	2	3	4	5	6	7	8	9
105	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	8	9	10
106	1921289062	ABHISEK JENA	1	2	3	X	4	5	6	7	8	9
107	1921289063	ABHISHEK PARIDA	1	2	3	4	5	6	7	8	9	10
108	1921289064	AMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
109	1921289065	ANMOL MISHRA	1	2	X	3	4	5	6	7	8	9
110	1921289066	CHIRANJIV RAY	1	2	3	4	5	6	7	8	9	10
111	1921289067	JNANANANDA SARANGI	1	2	3	4	5	6	7	8	9	10
112	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Sl. No	REGD NO	NAME	9/9	10/9	11/9	13/9	14/9	15/9	17/9	18/9	20/9	21/9
113	1801289364	VIVEK KUMAR	1	2	3	4	5	6	7	8	9	10
114	1801289368	YESHYESWI	1	2	3	4	5	X	6	7	8	9
115	1921289061	BRUTITAPA MISHRA	1	2	3	4	5	6	7	8	9	10
116	1801289004	ABHIJIT PRIYADARSHI PARIDA	X	1	2	3	4	5	6	7	8	9
117	1801289028	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
118	1801289032	AMIT KUMAR MISHRA	1	2	3	4	5	6	7	8	9	10
119	1801289041	ANIMES DAS	1	2	X	3	4	5	6	7	8	9
120	1801289072	ATUL KUMAR	1	2	3	4	5	6	7	8	9	10
121	1801289086	BIKASH KUMAR PATI	1	2	3	4	5	6	7	8	9	10
122	1801289095	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
123	1801289097	BISWOZEET SAHOO	X	1	2	3	4	5	6	7	8	9
124	1801289130	GIRIJA SANKAR DEO	1	2	3	4	5	6	7	8	9	10
125	1801289131	GOURAV SONWANEY	1	2	3	4	5	6	7	8	9	10
126	1801289133	HARAPRASAD HEMBRAM	1	2	X	3	4	5	6	7	8	9
127	1801289144	JEEBAN CHANDIPRASAD SAMAL	1	2	3	4	5	6	7	8	9	10
128	1801289157	KULDEEP SAHA	1	2	3	4	5	6	7	8	9	10
129	1801289166	MANAS RANJAN ROUT	1	2	3	4	5	X	6	7	8	9
130	1801289170	MANISH SINHA	1	2	3	4	5	6	7	8	9	10
131	1801289172	MD FAHAD	1	2	3	4	5	6	7	8	9	10
132	1801289173	MD YOUSUF REHAN	X	1	2	3	4	5	6	7	8	9
133	1801289208	PRASANT KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
134	1801289215	PRAVASH KUMAR DAS	1	2	3	4	5	6	7	8	9	10
135	1801289217	PRITAM JENA	1	2	3	4	5	6	7	8	9	10
136	1801289004	ABHIJIT PRIYADARSHI PARIDA	X	1	2	3	4	5	6	7	8	9
137	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10
138	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8	9	10
139	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
400	1801289275	SHIV SUNDAR JENA	1	2	X	3	4	5	6	7	8	9
141	1801289297	SOMANATH SAMAL	1	2	3	4	5	6	7	8	9	10
142	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
143	1801289320	SUBHENDU MUDULI	X	1	2	3	4	5	6	7	8	9
144	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	10
145	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	8	9	10
146	1921289062	ABHISEK JENA	1	2	X	3	4	5	6	7	8	9
147	1921289063	ABHISHEK PARIDA	1	2	3	4	5	6	7	8	9	10
148	1921289064	AMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
149	1921289065	ANMOL MISHRA	X	1	2	3	4	5	6	7	8	9
150	1921289066	CHIRANJIV RAY	1	2	3	4	5	6	7	8	9	10
151	1921289067	JNANANANDA SARANGI	1	2	3	4	5	6	7	8	9	10
152	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Sl. No	REGD NO	NAME	9/9	10/9	11/9	13/9	14/9	15/9	17/9	18/9	20/9	21/9
153	1801289364	VIVEK KUMAR	1	2	3	4	5	6	7	8	9	10
154	1801289368	YESHYESWI	1	2	3	4	5	6	7	8	9	10
155	1921289061	BRUTITAPA MISHRA	1	2	3	4	5	6	7	8	9	10
156	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8	9	10
157	1801289028	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
158	1801289032	AMIT KUMAR MISHRA	1	2	3	4	5	6	X	7	8	9
159	1801289041	ANIMES DAS	X	1	2	3	4	5	6	7	8	9
160	1801289072	ATUL KUMAR	1	2	3	4	5	6	7	8	9	10
161	1801289086	BIKASH KUMAR PATI	1	2	3	4	5	6	7	8	9	10
162	1801289095	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
163	1801289097	BISWOZEET SAHOO	1	2	3	4	5	6	7	8	9	10
164	1801289130	GIRIJA SANKAR DEO	X	1	2	3	4	5	6	7	8	9
165	1801289131	GOURAV SONWANEY	1	2	3	4	5	6	7	8	9	10
166	1801289133	HARAPRASAD HEMBRAM	1	2	3	4	5	6	7	8	9	10
167	1801289144	JEEBAN CHANDIPRASAD SAMAL	1	2	3	4	5	6	7	8	9	10
168	1801289157	KULDEEP SAHA	1	2	3	4	5	6	7	8	9	10
169	1801289166	MANAS RANJAN ROUT	X	1	2	3	4	5	6	7	8	9
170	1801289170	MANISH SINHA	1	2	3	4	5	6	7	8	9	10
171	1801289172	MD FAHAD	1	2	3	4	5	6	7	8	9	10
172	1801289173	MD YOUSUF REHAN	1	2	3	4	5	6	7	8	9	10
173	1801289208	PRASANT KUMAR SWAIN	X	1	2	3	4	5	6	7	8	9
174	1801289215	PRAVASH KUMAR DAS	X	1	2	3	4	5	6	7	8	9
175	1801289217	PRITAM JENA	1	2	3	4	5	6	7	8	9	10
176	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8	9	10
177	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10
178	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8	9	10
179	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
180	1801289275	SHIV SUNDAR JENA	1	2	3	4	5	6	7	8	9	10
181	1801289297	SOMANATH SAMAL	X	1	2	3	4	5	6	7	8	9
182	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
183	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8	9	9
184	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	9
185	1801289355	TARA PRASAD MAHAPATRA	1	2	X	3	4	5	6	7	8	9
186	1921289062	ABHISEK JENA	1	2	3	4	5	6	7	8	9	10
187	1921289063	ABHISHEK PARIDA	X	1	2	3	4	5	6	7	8	9
188	1921289064	AMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
189	1921289065	ANMOL MISHRA	1	2	3	4	5	6	7	8	9	10
190	1921289066	CHIRANJIV RAY	1	2	3	4	5	6	7	8	9	10
191	1921289067	JNANANANDA SARANGI	1	2	3	4	5	6	7	8	9	10
192	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10

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Sl. No	REGD NO	NAME	9/9	10/9	11/9	13/9	14/9	15/9	17/9	18/9	20/9	21/9
193	1801289364	VIVEK KUMAR	1	2	3	4	5	6	7	8	9	10
194	1801289368	YESHYESWI	1	2	3	4	5	6	7	8	9	10
195	1921289061	BRUTITAPA MISHRA	1	2	3	4	5	6	7	8	9	10
196	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8	9	10
197	1801289028	AMAN RAJ	X	1	2	3	4	5	6	7	8	9
198	1801289032	AMIT KUMAR MISHRA	1	2	3	4	5	6	7	8	9	10
199	1801289041	ANIMES DAS	1	2	X	3	4	5	6	7	8	9
200	1801289072	ATUL KUMAR	1	2	3	4	5	6	7	8	9	10
201	1801289086	BIKASH KUMAR PATI	1	2	3	4	5	6	7	8	9	10
202	1801289095	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	10
203	1801289097	BISWOZEET SAHOO	1	2	3	4	5	6	7	8	9	10
204	1801289130	GIRIJA SANKAR DEO	X	1	2	3	4	5	6	7	8	9
205	1801289131	GOURAV SONWANEY	1	2	3	4	5	6	7	8	9	10
206	1801289133	HARAPRASAD HEMBRAM	1	2	X	3	4	5	6	7	8	9
207	1801289144	JEEBAN CHANDIPRASAD SAMAL	1	2	3	4	5	6	7	8	9	10
208	1801289157	KULDEEP SAHA	1	2	3	4	5	6	7	8	9	10
209	1801289166	MANAS RANJAN ROUT	1	2	3	4	5	6	7	8	9	10
210	1801289170	MANISH SINHA	1	2	X	3	4	5	6	7	8	9
211	1801289172	MD FAHAD	1	2	3	4	5	6	7	8	9	10
212	1801289173	MD YOUSUF REHAN	X	1	2	3	4	5	6	7	8	9
213	1801289208	PRASANT KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
214	1801289215	PRAVASH KUMAR DAS	1	2	3	4	5	6	7	8	9	10
215	1801289217	PRITAM JENA	1	2	X	3	4	4	5	6	7	8
216	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8	9	10
217	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10
218	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8	9	10
219	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
220	1801289275	SHIV SUNDAR JENA	1	2	3	4	5	6	7	8	9	10
221	1801289297	SOMANATH SAMAL	1	2	3	4	5	6	7	8	9	10
222	1801289306	SOUMYARANJAN SAHOO	X	1	2	3	4	5	6	7	8	9
223	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8	9	10
224	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	10
225	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	8	9	10
226	1921289062	ABHISEK JENA	1	2	3	4	5	6	7	8	9	10
227	1921289063	ABHISHEK PARIDA	1	2	3	4	5	6	7	8	9	10
228	1921289064	AMIT KUMAR PANDA	X	1	2	3	4	5	6	7	8	9
229	1921289065	ANMOL MISHRA	1	2	3	4	5	6	7	8	9	10
230	1921289066	CHIRANJIV RAY	1	2	3	4	5	6	7	8	9	10
231	1921289067	JNANANANDA SARANGI	1	2	3	4	5	6	7	8	9	10
232	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10

M P Mishra
Signature of Teacher

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233	1801289364	VIVEK KUMAR	1	2	3	4	5	6	7	8	9	10
234	1801289368	YESHYESWI	A	1	2	3	4	5	6	7	8	9
235	1921289061	BRUTITAPA MISHRA	1	2	3	4	5	6	7	8	9	10
236	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8	9	10
237	1801289028	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
238	1801289032	AMIT KUMAR MISHRA	1	2	3	4	5	6	7	8	9	10
239	1801289041	ANIMES DAS	1	2	3	4	5	6	7	8	9	10
240	1801289072	ATUL KUMAR	1	2	3	4	5	6	7	8	9	10
241	1801289086	BIKASH KUMAR PATI	1	2	3	4	5	6	7	8	9	10
242	1801289095	BISWAJIT SAHOO	X	1	2	3	4	5	6	7	8	9
243	1801289097	BISWOZEET SAHOO	1	2	3	4	5	6	7	8	9	10
244	1801289130	GIRIJA SANKAR DEO	1	2	3	4	5	6	7	8	9	10
245	1801289131	GOURAV SONWANEY	1	2	3	4	5	6	7	8	9	10
246	1801289133	HARAPRASAD HEMBRAM	1	2	3	4	5	6	7	8	9	10
247	1801289144	JEEBAN CHANDIPRASAD SAMAL	1	2	3	4	5	6	7	8	9	10
248	1801289157	KULDEEP SAHA	X	1	2	3	4	5	6	7	8	9
249	1801289166	MANAS RANJAN ROUT	1	2	3	4	5	6	7	8	9	10
250	1801289170	MANISH SINHA	1	2	3	4	5	6	7	8	9	10
251	1801289172	MD FAHAD	1	2	3	4	5	6	7	8	9	10
252	1801289173	MD YOUSUF REHAN	1	2	3	4	5	6	7	8	9	10
253	1801289208	PRASANT KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
254	1801289215	PRAVASH KUMAR DAS	1	2	3	4	5	6	7	8	9	10
255	1801289217	PRITAM JENA	1	2	3	4	5	6	7	8	9	10
256	1801289004	ABHIJIT PRIYADARSHI PARIDA	X	1	2	3	4	5	6	7	8	9
257	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10
258	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8	9	10
259	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
260	1801289275	SHIV SUNDAR JENA	1	2	3	4	5	6	7	8	9	10
261	1801289297	SOMANATH SAMAL	1	2	3	4	5	6	7	8	9	10
262	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
263	1801289320	SUBHENDU MUDULI	X	1	2	3	4	5	6	7	8	9
264	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	10
265	1801289355	TARA PRASAD MAHAPATRA	1	2	3	4	5	6	7	8	9	10
266	1921289062	ABHISEK JENA	1	2	3	4	5	6	7	8	9	10
267	1921289063	ABHISHEK PARIDA	1	2	3	4	5	6	7	8	9	10
268	1921289064	AMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
269	1921289065	ANMOL MISHRA	1	2	3	4	5	6	7	8	9	10
270	1921289066	CHIRANJIV RAY	1	2	3	4	5	6	7	8	9	10
271	1921289067	JNANANANDA SARANGI	X	1	2	3	4	5	6	7	8	9
272	1801289225	RAHUL KUMAR SHAW	1	2	3	4	5	6	7	8	9	10

M P Mishra
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Sl. No	REGD NO	NAME	9/9	10/9	11/9	13/9	14/9	15/9	17/9	18/9	20/9	21/9
273	1801289364	VIVEK KUMAR	1	2	3	4	5	6	7	8	9	16
274	1801289368	YESHYESWI	1	2	3	4	5	6	7	8	9	16
275	1921289061	BRUTITAPA MISHRA	1	2	3	4	5	6	7	8	9	10
276	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	X	4	5	6	7	8	9
277	1801289028	AMAN RAJ	1	2	3	4	5	6	7	8	9	10
278	1801289032	AMIT KUMAR MISHRA	X	1	2	3	4	5	6	7	8	9
279	1801289041	ANIMES DAS	1	2	3	4	5	6	7	8	9	10
280	1801289072	ATUL KUMAR	1	2	3	4	5	6	7	8	9	16
281	1801289086	BIKASH KUMAR PATI	1	2	3	X	4	5	6	7	8	9
282	1801289095	BISWAJIT SAHOO	1	2	3	4	5	6	7	8	9	16
283	1801289097	BISWOZEET SAHOO	1	2	3	4	5	6	7	8	9	16
284	1801289130	GIRIJA SANKAR DEO	1	2	3	4	5	6	7	8	9	16
285	1801289131	GOURAV SONWANEY	X	1	2	3	4	5	6	7	8	9
286	1801289133	HARAPRASAD HEMBRAM	1	2	3	4	5	6	7	8	9	16
287	1801289144	JEEBAN CHANDIPRASAD SAMAL	1	2	3	4	5	6	7	8	9	16
288	1801289157	KULDEEP SAHA	1	2	3	X	4	5	6	7	8	9
289	1801289166	MANAS RANJAN ROUT	1	2	3	4	5	6	7	8	9	16
300	1801289170	MANISH SINHA	1	2	3	4	5	6	7	8	9	16
301	1801289172	MD FAHAD	1	2	3	4	5	6	7	8	9	10
302	1801289173	MD YOUSUF REHAN	1	2	3	4	5	6	7	8	9	16
303	1801289208	PRASANT KUMAR SWAIN	X	1	2	3	4	5	6	7	8	9
304	1801289215	PRAVASH KUMAR DAS	1	2	3	4	5	6	7	8	9	16
305	1801289217	PRITAM JENA	1	2	3	4	5	6	7	8	9	16
306	1801289004	ABHIJIT PRIYADARSHI PARIDA	1	2	3	4	5	6	7	8	9	10
307	1801289225	RAHUL KUMAR SHAW	1	2	3	X	4	5	6	7	8	9
308	1801289250	SAI GOURAV PATRA	1	2	3	4	5	6	7	8	9	16
309	1801289260	SANTU MANDAL	1	2	3	4	5	6	7	8	9	10
310	1801289275	SHIV SUNDAR JENA	X	1	2	3	4	5	6	7	8	9
311	1801289297	SOMANATH SAMAL	1	2	3	4	5	6	7	8	9	10
312	1801289306	SOUMYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	16
313	1801289320	SUBHENDU MUDULI	1	2	3	4	5	6	7	8	9	10
314	1801289335	SURAJ KUMAR RAM	1	2	3	4	5	6	7	8	9	10
315	1801289355	TARA PRASAD MAHAPATRA	X	1	2	3	4	5	6	7	8	9
316	1921289062	ABHISEK JENA	1	2	3	4	5	6	7	8	9	16
317	1921289063	ABHISHEK PARIDA	1	2	3	4	5	6	7	8	9	16
318	1921289064	AMIT KUMAR PANDA	1	2	3	4	5	6	7	8	9	16
319	1921289065	ANMOL MISHRA	1	2	3	4	5	6	7	8	9	10
320	1921289066	CHIRANJIV RAY	X	1	2	3	4	5	6	7	8	9

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Signature of Teacher

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 03.11.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Android Development through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per the departmental meeting held on 02.11.2021, we are planning to start a course on "Android Development through Guided Problem Solving" from 13.11.2021. This course aims to provide a strong foundation in Android app development, covering both essential and advanced topics. Students will learn to develop Android applications through hands-on exercises and project-based learning. The course duration and schedule are attached for your perusal.

Thanking You,

PC Barik

(HOD, CSE)
HOD
Computer Science Engg.

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SYLLABUS

Android Development through Guided Problem Solving

Total Lecture Periods: 48 hrs.

Course Objectives:

This course aims to enhance students' skills in Android app development using a hands-on, project-based approach. Students will learn the fundamentals of Android Studio, user interface design, database integration, and various Android development frameworks. By the end of the course, students will be able to create and deploy functional Android apps.

MODULES

Module-I: Introduction to Android Development [16 periods]

- Overview of Android Operating System and Architecture
- Setting up the Android Development Environment (Android Studio)
- Understanding Android components: Activities, Services, Broadcast Receivers, Content Providers
- Introduction to Android UI elements (Layouts, Views, Widgets)
- Writing the first Android App: Hello World app

Module-II: User Interface and User Experience (UI/UX) Design [16 periods]

- Designing responsive user interfaces using XML
- Understanding Layouts: Linear Layout, Relative Layout, Constraint Layout
- Event Handling in Android (Buttons, TextFields, Listeners)
- Intents and Navigation: Navigating between Activities and Fragments
- Best practices in UI/UX design for Android apps

Module-III: Data Management and APIs [16 periods]

- Working with SQLite database in Android
- Shared Preferences and Internal Storage
- Working with external data sources: JSON and REST APIs
- Networking in Android: HTTP requests and parsing responses
- Using Android's AsyncTask for background processing

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Course Outcomes

After completing the course, students will be able to:

- **CO1**: Set up the Android development environment and build simple apps.
- **CO2**: Design and implement intuitive and responsive user interfaces using Android Studio.
- **CO3**: Work with databases, APIs, and third-party libraries for Android development.
- **CO4**: Use advanced features such as Firebase, push notifications, and Google Play Services.
- **CO5**: Deploy Android applications to the Google Play Store and manage app performance.
- **CO6**: Apply best practices in UI/UX design, security, and debugging for Android apps.

Evaluation Process

1. **Attendance**: Minimum 75% attendance is required for successful completion.
2. **Qualifying Marks**: Minimum 50% marks are required to pass the course.
3. **Certification**: Certificates will be awarded to students upon successful completion of the course and assessments.

Suggested Learning Resources

- **Books**:
    1. "Android Programming: The Big Nerd Ranch Guide" by Bill Phillips, Chris Stewart, and Kristin Marsicano
    2. "Headfirst Android Development" by Dawn Griffiths and David Griffiths
    3. "Android Development for Beginners" by John Horton
    4. "Android App Development for Dummies" by Michael Burton

Rahul Ranjan
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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SCHEDULE

Mastering Android Development through Guided Problem Solving

Sl No	Date	Time	Course Content
1	13/11/2021	3:00PM-6:00PM	Introduction to Android Development
2	15/11/2021	3:00PM-6:00PM	Overview of Android User Interfaces (UIs)
3	16/11/2021	3:00PM-6:00PM	Fundamentals of XML for UI Design
4	17/11/2021	3:00PM-6:00PM	Creating and Styling Views in Android
5	18/11/2021	3:00PM-6:00PM	Introduction to Layouts in Android
6	20/11/2021	3:00PM-6:00PM	Exploring Linear Layout: Properties and Use Cases
7	22/11/2021	3:00PM-6:00PM	Designing with Relative Layout: Features and Examples, Building Flexible UIs using Constraint Layout
8	23/11/2021	3:00PM-6:00PM	Building Flexible UIs using Constraint Layout
9	24/11/2021	3:00PM-6:00PM	XML Layout Resources: Optimization and Reusability,
10	25/11/2021	3:00PM-6:00PM	Debugging and Testing Layout Designs
11	26/11/2021	3:00PM-6:00PM	Linear Layout: Properties and Use Cases
12	27/11/2021	3:00PM-6:00PM	Designing with Relative Layout: Features and Examples,
13	29/11/2021	3:00PM-6:00PM	Handling UI Scaling Across Devices and Orientations
14	30/11/2021	3:00PM-6:00PM	Testing Layout Designs
15	01/12/2021	3:00PM-6:00PM	Reusability, Debugging and Testing Layout Designs

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16	02/12/2021	4:00PM-6:00PM	Testing Layout Designs
17	03/12/2021	5:00PM-6:00PM	Assessment

Rahul Ranjan
(Course Instructor)

(HOD, CSE)
HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:05.11.2021

This is to inform all B. Tech & MCA students that the department of CSE will start an add-on course on "Mastering Android Development through Guided Problem Solving" starting from 13.11.2021. Interested students must register by 10.11.2021. The course details are as follows:

- Course Name: Mastering Android Development through Guided Problem Solving
- Instructor Name: Rahul Ranjan
- Registration Contact No: 9949083462

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:11.08.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering Android Development through Guided Problem Solving".

Respected Sir,

We are going to start a course on " Mastering Android Development through Guided Problem Solving " from 13.11.2021 and a total of 228 Students have enrolled for this course. This is for your kind information.

Rahul Ranjan
(Course Instructor)

(HOD, CSE)
HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:01.10.2021

ANDROID DEVELOPER

ASSESSMENT

Name Of the Student: Anjali Kumari
Regd No: 2180289093

All Questions Compulsory

Q1: What is the primary programming language used for Android development?
A) Python B) Java
C) C++ D) Ruby

Q2: Which component is responsible for handling user interactions in an Android app?
A) Service B) Activity
C) Broadcast Receiver D) Content Provider

Q3: What is the purpose of the AndroidManifest.xml file?
A) It contains the UI design of the app B) It stores user data
C) It defines essential app configurations and permissions D) It handles network requests

Q4: Which layout is best suited for creating a flexible and complex UI structure?
A) Linear Layout B) Relative Layout
C) Constraint Layout D) Table Layout

Q5: What is the role of an Intent in Android?
A) It is used to display notifications B) It allows communication between different components of an app
C) It stores application data D) It is used for debugging an application

Q6: Which database is commonly used for local data storage in Android apps?
A) MySQL B) Firebase
C) SQLite D) PostgreSQL

Q7: What method is used to start a new Activity in Android?
A) start Activity() B) start Service()
C) on Create() D) launch Activity ()

Q8: Which Android component is used for background processing?
A) Activity B) Service
C) Broadcast Receiver D) Fragment

Q9: How can an Android app communicate with a remote server?
A) Using Intents B) Using SQLite
C) Using HTTP requests and REST APIs D) Using Shared Preferences

Q10: Which Android UI component is used to display a scrollable list of items?
A) Grid Layout B) List View
C) Frame Layout D) Image View

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: RAHUL RANJAN **Month/Year:** 11/21

Subject Code: **Branch:**

Subject: Android development through guided Problem solv

Sl. No	REGD NO	NAME	13/11	15/11	16/11	17/11	18/11	20/11	22/11	23/11	24/11	25/11
1	1801289001	ABANISH MUDULI	1	2	3	X	4	5	6	7	8	9
2	1801289002	ABDUL AABID KHAN	1	2	3	4	5	X	6	7	8	9
3	1801289003	ABHIJEET MOHANTY	1	2	3	X	4	5	6	7	8	9
4	1801289010	ABHISHEK KUMAR	1	2	3	4	5	X	6	7	X	8
5	1801289016	ADARSH DHIR	1	2	3	4	X	5	6	7	8	9
6	1801289017	ADITYA ASHUTOSH	1	2	3	4	5	X	6	7	8	9
7	1801289020	AKANKSHA DAS	X	1	2	3	4	5	6	X	7	8
8	1801289021	AKASH KUMAR	1	2	X	3	4	5	6	7	X	8
9	1801289026	AMAN MOHANTY	1	2	3	4	5	6	X	7	8	X
10	1801289027	AMAN RAJ	1	2	3	4	X	5	6	7	8	X
11	1801289031	AMIT GIRI	X	1	2	3	4	5	6	7	8	9
12	1801289033	AMIT KUMAR SINGH	1	2	X	3	4	5	6	7	8	9
13	1801289034	AMITABH TARENIA	1	2	3	4	X	5	6	X	7	8
14	1801289035	AMIYA PALAI	1	2	3	4	5	6	7	8	X	9
15	1801289037	AMLAN KUMAR NANDY	X	1	2	3	4	5	X	6	7	8
16	1801289038	ANANYA DASH	1	X	2	3	4	5	6	X	7	8
17	1801289039	ANANYA PRIYADARSHINI MANTRY	1	2	3	X	4	5	6	7	8	9
18	1801289042	ANIMESH SAHOO	1	2	X	3	4	5	6	7	8	9
19	1801289043	ANJALI KUMARI	1	X	2	3	4	5	6	7	X	8
20	1801289044	ANKIT BHUYAN	1	2	3	4	X	5	6	7	8	X
21	1801289045	ANKITA BHUYAN	X	1	2	3	4	5	X	6	7	8
22	1801289051	ANKITA SINGH	1	2	X	3	4	5	6	7	8	9
23	1801289058	ARCH SATPATHY	1	X	2	3	4	5	6	7	X	8
24	1801289060	ARKASARATHI DAS	1	2	3	X	4	5	6	X	7	8
25	1801289061	ARPIT ABHISHEK MOHANTY	1	2	3	4	5	X	6	7	8	9
26	1801289066	ASHISH KUMAR JENA	1	X	2	3	4	5	6	7	X	8
27	1801289067	ASHISH KUMAR MOHAPATRA	1	2	X	3	4	5	X	6	7	8
28	1801289068	ASHISH RANJAN	1	2	3	4	X	5	6	7	8	9
29	1801289069	ASHRIBAD BEHERA	1	2	3	X	4	5	6	X	7	8
30	1801289070	ASHUTOSH JENA	1	2	3	4	5	X	6	7	8	9
31	1801289073	AURPITA SWAIN	1	2	X	3	4	5	6	7	8	9
32	1801289074	AVI KUMAR	X	1	2	3	4	5	X	6	7	8

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Sl. No	REGD NO	NAME	13/11	15/11	16/11	17/11	18/11	20/11	22/11	23/11	24/11	25/11
33	1801289075	AYASKANTA BEHERA	1	2	3	4	5	X	6	7	8	09
34	1801289076	AYESHKANT LENKA	1	2	3	4	5	6	7	8	9	10
35	1801289078	AYUSH PANDEY	1	2	3	4	5	6	X	7	8	9.
36	1801289079	AYUSH SHARMA	1	2	3	4	5	6	7	X	8	9
37	1801289082	BAISALI DAS	X	1	2	4	5	X	6	7	8	9
38	1801289085	BHABANI SHANKAR NAYAK	1	2	3	4	5	6	7	X	8	9
39	1801289087	BINIT JAISWAL	1	2	3	4	X	5	6	7	8	9
40	1801289088	BISHAL ACHARYA	1	2	3	4	5	6	X	7	X	8
41	1801289090	BISHAL MALLICK	1	2	X	3	4	5	6	7	8	X
42	1801289091	BISHNU PRASAD PANDA	1	2	3	4	5	X	6	7	8	9
43	1801289096	BISWAJIT SAHOO	1	X	2	3	X	4	5	6	7	8
44	1801289098	CHANDRA SHEKHAR JENAMONI	1	2	3	X	4	5	6	7	8	9
45	1801289099	CHANDRAPRAVA MOHANTY	1	2	3	4	5	X	6	7	8	9
46	1801289100	CHINMAYA SAMANTARA	1	2	X	3	4	5	6	7	8	9
47	1801289101	CHIRANJIBEE MOHAPATRA	X	1	2	3	4	5	6	X	7	8
48	1801289102	CHITTA RANJAN BISWAL	1	2	3	X	4	5	X	6	7	8
49	1801289103	DANISH QUAMAR KHAN	1	2	3	4	5	X	6	7	8	X
50	1801289104	DEBABRATA DEHURY	1	2	X	3	4	5	6	7	8	9
51	1801289106	DEBASISH PANDA	1	2	3	4	5	6	7	8	9	10
52	1801289107	DEBASISH SWAIN	1	2	3	4	X	5	6	X	7	8
53	1801289114	DHIRAJ KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
54	1801289115	DIBYA BHARATI DAS	1	2	3	4	5	6	X	7	8	9
55	1801289117	DIBYAPRAKASH PRUSTY	X	1	2	3	4	5	6	7	8	9
56	1801289118	DIBYARANJAN BARIK	1	2	X	3	4	5	6	X	7	8
57	1801289120	DIKSHA PRASAD	1	2	3	4	X	5	6	7	X	8
58	1801289121	DINESH JENA	1	2	3	X	4	5	6	7	8	9
59	1801289123	DIPANSHU ROUTRAY	1	2	3	4	5	X	6	7	8	9
60	1801289125	DURGASISH MISHRA	1	2	3	4	5	6	7	X	8	9
61	1801289128	GANESH SOREN	1	2	X	3	4	5	6	6	7	8
62	1801289129	GAURIPRASAD LENKA	1	X	2	3	4	5	X	6	7	8
63	1801289132	GYANAJIT DAS	1	2	3	4	X	5	6	7	8	9
64	1801289134	HEEM ANANYA TANTI	1	2	3	4	5	6	7	8	9	10
65	1801289137	HITESH KUMAR MAHANTA	1	2	3	4	5	X	6	7	8	9
66	1801289139	ITISHREE DAS	1	2	3	X	4	5	6	7	8	9
67	1801289140	JAGAN MOHAPATRA	1	2	3	4	X	5	6	7	8	9
68	1801289141	JAGAN MOHARANA	1	X	2	3	4	5	6	7	8	9
69	1801289142	JAYAKRUSHNA ROUT	1	1	3	4	5	6	7	8	9	10
70	1801289145	JINGYANSHU RANJAN RAUTARAY	1	2	3	4	5	6	7	8	9	10
71	1801289146	JOTIRAJ MAJHI	1	2	3	4	5	6	7	8	9	10
72	1801289148	JYOTI PRAKASH CHIRANJIV	1	X	2	3	4	5	6	7	8	9

Signature of Teacher

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Attendance Sheet

Name of the Teacher: RAHUL RANJAN **Month/Year:** 11/21

Subject Code: **Branch:**

Subject: Android developmt through guided prob solving

Sl. No	REGD NO	NAME	26/11	27/11	29/11	30/11	01/12					
1	1801289001	ABANISH MUDULI	10	11	12	X	13					
2	1801289002	ABDUL AABID KHAN	10	11	12	13	14					
3	1801289003	ABHIJEET MOHANTY	X	10	11	12	13					
4	1801289010	ABHISHEK KUMAR	09	10	11	12	13					
5	1801289016	ADARSH DHIR	10	11	12	13	14					
6	1801289017	ADITYA ASHUTOSH	10	11	12	X	13					
7	1801289020	AKANKSHA DAS	9	10	11	12	13					
8	1801289021	AKASH KUMAR	9	10	11	12	13					
9	1801289026	AMAN MOHANTY	9	10	X	11	12					
10	1801289027	AMAN RAJ	9	10	11	12	X					
11	1801289031	AMIT GIRI	X	10	11	12	13					
12	1801289033	AMIT KUMAR SINGH	X	10	11	X	12					
13	1801289034	AMITABH TARENIA	9	10	X	11	12					
14	1801289035	AMIYA PALAI	10	X	11	12	13					
15	1801289037	AMLAN KUMAR NANDY	09	10	11	12	X					
16	1801289038	ANANYA DASH	09	10	11	12	13					
17	1801289039	ANANYA PRIYADARSHINI MANTRY	10	11	X	12	13					
18	1801289042	ANIMESH SAHOO	10	X	11	12	X					
19	1801289043	ANJALI KUMARI	9	10	11	12	13					
20	1801289044	ANKIT BHUYAN	9	10	11	X	12					
21	1801289045	ANKITA BHUYAN	9	X	10	11	12					
22	1801289051	ANKITA SINGH	10	11	X	12	13					
23	1801289058	ARCH SATPATHY	9	10	11	12	13					
24	1801289060	ARKASARATHI DAS	9	10	11	12	13					
25	1801289061	ARPIT ABHISHEK MOHANTY	10	11	12	X	13					
26	1801289066	ASHISH KUMAR JENA	9	10	11	12	X					
27	1801289067	ASHISH KUMAR MOHAPATRA	9	10	11	12	13					
28	1801289068	ASHISH RANJAN	10	11	12	13	14					
29	1801289069	ASHRIBAD BEHERA	9	10	11	12	13					
30	1801289070	ASHUTOSH JENA	10	11	12	X	13					
31	1801289073	AURPITA SWAIN	10	11	12	13	14					
32	1801289074	AVI KUMAR	9	10	11	12	13					

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Sl. No	REGD NO	NAME	26/11	27/11	29/11	30/11	01/12					
33	1801289075	AYASKANTA BEHERA	10	11	12	X	13					
34	1801289076	AYESHKANT LENKA	11	12	X	13	14					
35	1801289078	AYUSH PANDEY	10	11	12	13	14					
36	1801289079	AYUSH SHARMA	10	11	12	13	14					
37	1801289082	BAISALI DAS	10	11	12	13	14					
38	1801289085	BHABANI SHANKAR NAYAK	10	X	11	12	13					
39	1801289087	BINIT JAISWAL	10	11	12	13	14					
40	1801289088	BISHAL ACHARYA	09	10	11	12	13					
41	1801289090	BISHAL MALLICK	09	10	11	12	13					
42	1801289091	BISHNU PRASAD PANDA	10	11	X	12	13					
43	1801289096	BISWAJIT SAHOO	9	10	11	12	13					
44	1801289098	CHANDRA SHEKHAR JENAMONI	10	X	11	12	13					
45	1801289099	CHANDRAPRAVA MOHANTY	10	11	12	X	13					
46	1801289100	CHINMAYA SAMANTARA	10	11	12	13	X					
47	1801289101	CHIRANJIBEE MOHAPATRA	9	10	11	12	13					
48	1801289102	CHITTA RANJAN BISWAL	9	10	11	12	13					
49	1801289103	DANISH QUAMAR KHAN	9	10	11	12	13					
50	1801289104	DEBABRATA DEHURY	10	11	12	13	X					
51	1801289106	DEBASISH PANDA	X	11	12	13	14					
52	1801289107	DEBASISH SWAIN	09	10	11	12	13					
53	1801289114	DHIRAJ KUMAR SINGH	X	11	12	13	14					
54	1801289115	DIBYA BHARATI DAS	10	11	12	13	14					
55	1801289117	DIBYAPRAKASH PRUSTY	10	11	12	13	X					
56	1801289118	DIBYARANJAN BARIK	9	10	11	12	13					
57	1801289120	DIKSHA PRASAD	9	10	11	12	13					
58	1801289121	DINESH JENA	10	11	12	13	14					
59	1801289123	DIPANSHU ROUTRAY	10	11	12	13	14					
60	1801289125	DURGASISH MISHRA	10	11	12	13	14					
61	1801289128	GANESH SOREN	9	10	11	12	13					
62	1801289129	GAURIPRASAD LENKA	9	10	11	12	13					
63	1801289132	GYANAJIT DAS	10	11	12	13	14					
64	1801289134	HEEM ANANYA TANTI	11	12	X	13	14					
65	1801289137	HITESH KUMAR MAHANTA	10	11	12	13	14					
66	1801289139	ITISHREE DAS	10	X	11	12	13					
67	1801289140	JAGAN MOHAPATRA	10	11	12	13	14					
68	1801289141	JAGAN MOHARANA	10	11	12	X	13					
69	1801289142	JAYAKRUSHNA ROUT	11	12	13	14	15					
70	1801289145	JINGYANSHU RANJAN RAUTARAY	11	12	13	14	15					
71	1801289146	JOTIRAJ MAJHI	11	12	13	14	15					
72	1801289148	JYOTI PRAKASH CHIRANJIV	10	11	12	13	14					

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 01.09.2021

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Subject: Permission to start certificate course in "IoT and Data Analysis with AWS and Azure Platforms" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 31.08.2021, we are planning to start an add-on course on "IoT and Data Analysis with AWS and Azure Platforms" from 08.09.2021. This course will provide students with a deep understanding of the Internet of Things (IoT) ecosystem and introduce them to cloud platforms such as AWS and Azure for data collection, analysis, and visualization. The objective is to enhance students' skills in IoT device integration, cloud computing, and data analytics, which are essential in the modern era of smart systems and cloud-based applications.

The course duration, schedule, and syllabus are attached for your review and approval.

Thanking You,

PChanel
(HOD, CSE)

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SYLLABUS

IoT and Data Analysis with AWS and Azure Platforms

Total Lecture Periods: 36hrs
Course Objectives:
This course is designed to provide students with practical knowledge of the Internet of Things (IoT), cloud platforms (AWS and Azure), and data analysis techniques. Students will learn how to connect IoT devices to cloud platforms, store and analyze the data, and create smart applications using modern cloud technologies. By the end of the course, students will be able to design, deploy, and manage IoT-based applications integrated with cloud services such as AWS and Azure.

MODULES

Module-I: Introduction to IoT and Cloud Computing [9 periods]

- Overview of IoT: Definitions, applications, and key components
- IoT architecture and protocols (MQTT, HTTP, CoAP)
- Introduction to cloud computing: Benefits and services
- Overview of AWS and Azure platforms
- IoT device hardware: Sensors, actuators, and communication protocols
- Setting up IoT environments: Raspberry Pi, Arduino, and sensors integration

Module-II: IoT Data Collection and Communication [9 periods]

- IoT data acquisition: Sensor data collection and transmission methods
- Cloud integration: Sending IoT data to AWS and Azure
- Setting up IoT devices on AWS IoT Core and Azure IoT Hub
- Communication protocols: MQTT and HTTP for device-cloud interaction
- Managing devices and ensuring secure data transmission
- Case studies: Smart home, smart city, and industrial IoT systems

Module-III: Cloud Data Storage and Management [9 periods]

- Storing IoT data on AWS (S3, DynamoDB, and RDS)
- Storing IoT data on Azure (Blob Storage, Cosmos DB, and SQL Database)
- Data preprocessing and data pipelines
- Introduction to time-series data storage (AWS Timestream, Azure Time Series Insights)
- Data security and privacy considerations in cloud storage
- Working with large datasets in the cloud

Module-IV: Data Analytics and Visualization with AWS and Azure [9 periods]

- Introduction to data analytics: Data cleaning, processing, and transformation
- Using AWS analytics tools: AWS Lambda, Kinesis, QuickSight, and Redshift

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- Using Azure analytics tools: Azure Machine Learning, Power BI, and Azure Synapse
- IoT data visualization: Creating dashboards for real-time data
- Building predictive models with IoT data
- Case study: Real-time monitoring and predictive maintenance using IoT data

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the fundamentals of IoT, cloud computing, and their integration.
- **CO2**: Set up IoT devices and integrate them with AWS and Azure platforms.
- **CO3**: Store and manage large IoT datasets in cloud storage services.
- **CO4**: Analyze IoT data using AWS and Azure analytics tools.
- **CO5**: Design and deploy IoT-based applications with cloud infrastructure.
- **CO6**: Visualize and interpret IoT data for actionable insights in real-time.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.
4. **Project-Based Evaluation**: Students will be evaluated on a project where they design and implement an IoT system integrated with cloud platforms, demonstrating their skills in data collection, cloud integration, and data analysis.

Biswaranjan Nayak

(Course Instructor)

(HOD,CSE)

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SCHEDULE

IoT and Data Analysis with AWS and Azure Platforms

Sl No	Date	Time	Course Content
1	08.09.2021	3:00PM-6:00PM	Overview of IoT, architecture, protocols (MQTT, HTTP, CoAP), and cloud platforms (AWS, Azure).
2	09.09.2021	3:00PM-6:00PM	IoT hardware, sensors, actuators, communication protocols, and integration with Raspberry Pi and Arduino.
3	10.09.2021	3:00PM-6:00PM	IoT data acquisition, transmission methods, device-cloud integration with AWS IoT Core and Azure IoT Hub.
4	11.09.2021	3:00PM-6:00PM	Storing IoT data on AWS (S3, DynamoDB) and Azure (Blob Storage, Cosmos DB), and time-series data storage.
5	13.09.2021	3:00PM-6:00PM	Ensuring secure data transmission and privacy considerations in cloud storage.s
6	14.09.2021	3:00PM-6:00PM	Data preprocessing, building data pipelines, and handling large datasets for IoT applications.
7	15.09.2021	3:00PM-6:00PM	Using AWS tools (Lambda, Kinesis, QuickSight, Redshift) for data analytics and visualization.
8	16.09.2021	3:00PM-6:00PM	Utilizing Azure tools (Machine Learning, Power BI, Synapse).
9	17.09.2021	3:00PM-6:00PM	Creating real-time dashboards, building predictive models.
10	18.09.2021	3:00PM-6:00PM	Data trends.
11	20.09.2021	3:00PM-6:00PM	IoT data analysis and reporting
12	21.09.2021	4:00PM-6:00PM	Visualizing IoT data trends.
11	22.09.2021	5:00PM-6:00PM	Assessment

Biswaranjan Nayak.

Biswaranjan Nayak

(Course Instructor)

P Chanel

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:02.09.2021

This is to inform all B. Tech students that the department of CSE will begin a certificate course in "IoT and Data Analysis with AWS and Azure Platforms" starting from 08.09.2021. Interested students must register on or before 07.09. 2021.The course details are as follows:

- Course Name: IoT and Data Analysis with AWS and Azure Platforms
- Instructor Name: Biswaranjan Swain
- Registration Contact: Biswaranjan Swain

Principal
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Trident Academy of Technology
Bhubaneswar-751024

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(iii) AO
(iv) All Notice Board

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Trident Academy of Technology
Bhubaneswar-751024

Date: 21.09.2021

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "IoT and Data Analysis with AWS and Azure Platforms"

Respected Sir,

We are going to start a course on " IoT and Data Analysis with AWS and Azure Platforms " from 08.09.2021 and a total of 25 Students have enrolled for this course. This is for your kind information.

Biswaranjan Nayak

(Course Instructor)

(HOD,CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:22.09.2021

IOT AND ANALYSIS WITH AWS AND AZURE PLATFORMS ASSESSMENT

Name Of the Student: Richa Kumari

Regd No: 1801289239

10/10

All Questions Compulsory

Q1: Which of the following is a widely used IoT communication protocol?

A) FTP B) MQTT

C) POP3 D) SSH

Q2: What is the primary function of AWS IoT Core?

A) Store IoT data in a relational database

B) Provide secure communication between IoT devices and AWS services

C) Visualize data in dashboards

D) Process large-scale video streams

Q3: Which IoT architecture layer is responsible for data collection from sensors?

A) Application layer B) Perception layer

C) Network layer D) Cloud layer

Q4: What is the purpose of Azure IoT Hub?

A) Manage and monitor IoT devices B) Provide cloud storage for IoT data

C) Perform advanced data analytics D) Generate machine learning models

Q5: Which AWS service is commonly used to store large IoT datasets?

A) AWS Lambda B) Amazon S3

C) AWS CloudTrail D) Amazon ECS

Q6: In IoT, what is the role of an actuator?

A) Collect and send data to the cloud B) Process and analyze sensor data

C) Perform an action based on received instructions D) Establish network connections

Q7: Which Azure service is used for real-time analytics of IoT data?

A) Azure Blob Storage B) Azure Machine Learning

C) Azure Stream Analytics D) Azure Functions

Q8: What is the main advantage of using time-series databases like AWS Timestream for IoT data?

A) It supports only batch processing

B) It provides real-time query capabilities for time-based data

C) It reduces network latency for video streaming

D) It requires on-premises hardware

Q9: Which AWS service is used for data visualization in IoT applications?

A) Amazon Redshift B) AWS Quick Sight

C) AWS CloudFormation D) Amazon SNS

Q10: What is the significance of edge computing in IoT?

A) It allows devices to process data locally before sending it to the cloud

B) It replaces cloud computing entirely

C) It increases cloud storage capacity

D) It eliminates the need for IoT security measures

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Dr. Biswaranjan Nayak **Month/Year:** 09/2024

Subject Code: [illegible] **Branch:**

Subject: IOT and Data Analytics with AWS and AZURE Platforms

Sl. No	REGD NO	NAME	08/09	09/09	10/09	11/09	13/09	14/09	15/09	16/09	17/09	18/09
1	1801289143	JAYDEEP GHATUARY	1	2	3	4	5	6	7	8	9	10
2	1801289168	MANBESH MOHANTY	1	2	3	4	5	6	7	8	9	10
3	1801289169	MANISH BHAGYASAGAR	1	2	X	4	5	6	7	8	9	X
4	1801289176	MINAL KUMARI MUKHI	1	2	3	4	5	6	7	8	9	10
5	1801289184	MRITUNJAY KUMAR PRASAD	1	2	3	4	5	6	7	8	9	10
6	1801289188	NIKHIL KUMAR	1	2	3	4	X	5	6	7	8	9
7	1801289193	NITISH AGRAWAL	1	2	3	4	5	6	7	8	9	10
8	1801289204	PRADYUMNA KUMAR MOHAPATRA	1	2	3	4	5	6	7	8	9	X
9	1801289229	RAJASHREE PRAHARAJ	1	2	3	4	5	6	7	8	9	10
10	1801289232	RAJDEEP RAHA	1	2	3	4	X	5	6	7	8	9
11	1801289239	RICHA KUMARI	1	2	3	4	5	6	7	8	9	10
12	1801289248	S TUSHAR	1	2	3	4	5	6	7	8	9	10
13	1801289249	SAGAR PATRA	1	2	3	4	5	6	7	8	9	10
14	1801289252	SAI SUBHASHREE	1	2	3	4	5	6	7	8	9	10
15	1801289261	SARBAJEET SINGH	1	2	3	4	5	6	7	8	9	10
16	1801289279	SHREYA BHARTI	1	2	3	4	5	6	X	7	8	9
17	1801289287	SIDHARTHA ACHARYA	1	2	3	4	5	6	7	8	9	10
18	1801289289	SIMRITA MISHRA	1	2	3	4	5	6	7	8	9	10
19	1801289296	SOFIA PANDA	1	2	3	4	5	6	7	8	9	10
20	1801289298	SONAL SHAILJA	1	2	3	4	X	5	X	6	7	8
21	1801289301	SOUMYA RANJAN DAS	1	2	3	4	5	6	7	8	9	10
22	1801289312	SOVIT KUMAR DALAI	1	2	3	4	5	6	7	8	9	10
23	1801289331	SUNAINA MOHAPATRA	1	2	3	4	5	6	7	8	9	10
24	1801289087	BINIT JAISWAL	1	2	3	4	X	5	6	7	8	9
25	1801289088	BISHAL ACHARYA	1	2	3	4	5	6	7	8	9	10

Biswaranjan Nayak

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Dr Biswajan Nayak **Month/Year:** 09/24

Subject Code: **Branch:**

Subject: IOT and Data Analytics with AWS & Azure platform.

Sl. No	REGD NO	NAME	20/09	21/09	22/09							
1	1801289143	JAYDEEP GHATUARY	11	12	13							
2	1801289168	MANBESH MOHANTY	11	12	13							
3	1801289169	MANISH BHAGYASAGAR	9	10	11							
4	1801289176	MINAL KUMARI MUKHI	11	12	13							
5	1801289184	MRITUNJAY KUMAR PRASAD	11	12	13							
6	1801289188	NIKHIL KUMAR	10	11	12							
7	1801289193	NITISH AGRAWAL	11	12	13							
8	1801289204	PRADYUMNA KUMAR MOHAPATRA	10	11	X							
9	1801289229	RAJASHREE PRAHARAJ	11	12	13							
10	1801289232	RAJDEEP RAHA	10	11	12							
11	1801289239	RICHA KUMARI	11	12	13							
12	1801289248	S TUSHAR	11	13	13							
13	1801289249	SAGAR PATRA	11	12	13							
14	1801289252	SAI SUBHASHREE	11	X	12							
15	1801289261	SARBAJEET SINGH	11	12	13							
16	1801289279	SHREYA BHARTI	10	11	12							
17	1801289287	SIDHARTHA ACHARYA	11	12	13							
18	1801289289	SIMRITA MISHRA	11	12	13							
19	1801289296	SOFIA PANDA	11	X	12							
20	1801289298	SONAL SHAILJA	9	10	11							
21	1801289301	SOUMYA RANJAN DAS	11	12	13							
22	1801289312	SOVIT KUMAR DALAI	11	12	13							
23	1801289331	SUNAINA MOHAPATRA	11	12	13							
24	1801289087	BINIT JAISWAL	10	11	12							
25	1801289088	BISHAL ACHARYA	11	12	13							

Biswajan Nayak.

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:19.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering Technical Skills through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 17.09.2022 we are planning to start a course "Mastering Technical Skills through Guided Problem Solving" from 26.09.2022. The objective of the course is to provide in-depth training on essential technical skills required in industry to our students. The course duration and schedule are attached for your perusal.

Thanking You

P Chand

(HOD, CSE)

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SYLLABUS

Mastering Technical Skills through Guided Problem Solving

Total Lecture Periods: 36 hrs

Course Objectives:

This course aims to enhance students' proficiency in critical technical domains through hands-on problem-solving and practical exercises. The course covers essential skills such as programming, data handling, software development, and collaborative project management to prepare students for industry-ready roles.

MODULE-I: Introduction to Technical Skills [9 periods]

- **Topics:** Overview of industry demands, introduction to problem-solving techniques, and tools like IDEs and version control systems (Git).

MODULE-II: Programming Fundamentals [9 periods]

- **Topics:** Core programming concepts, structured programming, debugging practices, and writing optimized code in C/Python/Java.

MODULE-III: Data Handling and Analysis [9 periods]

- **Topics:** Introduction to data structures, databases, and data manipulation techniques using SQL/Excel/Pandas.

MODULE-IV: Industry-Oriented Project [9 periods]

- **Topics:** Real-world problem-solving using technical skills, collaborative team projects, and presentation of solutions.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Identify key technical requirements and apply problem-solving strategies.
CO2: Demonstrate proficiency in programming for solving technical problems.

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CO3: Use tools like Git and databases effectively in project development.
CO4: Analyze data for meaningful insights using technical tools.
CO5: Collaborate and deliver solutions for real-world scenarios.
CO6: Build a foundation for advanced technical certifications or specializations.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. *Clean Code: A Handbook of Agile Software Craftsmanship* by Robert C. Martin
2. *Introduction to Algorithms* by Thomas H. Cormen

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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SCHEDULE

Mastering Technical Skills through Guided Problem Solving

Sl No	Date	Time	Course Content
1	27.09.2022	3:00 PM-6:00 PM	Overview of current industry demands and emerging trends
2	28.09.2022	3:00 PM-6:00 PM	Fundamental problem-solving techniques and methodologies
3	29.09.2022	3:00 PM-6:00 PM	Overview of IDEs, version control systems (Git), and their setup
4	01.10.2022	3:00 PM-6:00 PM	Variables, data types, control structures, and basic programming syntax in C/Python/Java
5	03.10.2022	3:00 PM-6:00 PM	Functions, recursion, and debugging practices, Techniques for writing efficient and optimized code
6	04.10.2022	3:00 PM-6:00 PM	Introduction to arrays, lists, stacks, and queues, Basics of databases, writing queries, and data manipulation in SQL,
7	05.10.2022	3:00 PM-6:00 PM	Understanding project requirements and planning solutions collaboratively,
8	06.10.2022	3:00 PM-6:00 PM	Applying technical skills
9	07.10.2022	3:00 PM-6:00 PM	Solve industry-oriented problems
10	08.10.2022	3:00 PM-6:00 PM	Coding and implementation of project solutions in teams
11	10.10.2022	3:00 PM-6:00 PM	Testing, debugging, and refining project solutions
12	11.10.2022	4:00 PM-6:00 PM	Preparing and delivering professional presentations of technical solutions
13	12.10.2022	5:00 PM-6:00 PM	Assessment

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:21.09.2022

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Mastering Technical Skills through Guided Problem Solving" Starting from 27.09. 2022.Interested students must register on or before 24.09.2022. The course details are as follows:

- Course name: Mastering Technical Skills through Guided Problem Solving
- Instructor name: Aditya Narayan Das
- Contact: 9439177066

Principal

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Trident Academy of Technology
Bhubaneswar-751024

Date:26.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: <u>Number of Students Enrolled for the Add-on Course on "Mastering Technical Skills through Guided Problem Solving".</u>

Respected Sir,

We are going to start course on " Mastering Technical Skills through Guided Problem Solving " from 27.09.2022 and a total of 75 Students have enrolled for this course. This is for your kind information.

Aditya Narayan Das

(Course Instructor)

HOD, (CSE)

HOD
Computer Science Engg.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:12.10.2022

Mastering Technical Skills

ASSESMENT

Name Of the Student:

Regds No:

All Questions Compulsory

Q1: Which component is considered the "brain" of the computer?
A) RAM B) Hard Drive C) CPU D) GPU

Q2: What does OOP stand for in programming?
A) Object-Oriented Programming B) Online Operating Process
C) Open Optimization Protocol D) Overloaded Operations Processing

Q3: Which device is used to connect multiple networks together?
A) Switch B) Router C) Hub D) Modem

Q4: Which of the following is NOT an operating system?
A) Windows B) Linux C) Android D) Google Chrome

Q5: What does a firewall do in a computer network?
A) Increases internet speed B) Protects against unauthorized access
C) Repairs damaged software D) Cools down the computer

Q6: Which language is commonly used to manage and query databases?
A) Java B) Python C) SQL D) C++

Q7: What does HTML stand for?
A) Hyper Transfer Markup Language B) High Tech Modern Language
C) HyperText Markup Language D) Home Tool Machine Learning

Q8: Which of the following is a cloud storage service?
A) Photoshop B) Dropbox C) Visual Studio D) Notepad

Q9: What is the main function of Machine Learning in AI?
A) Manually coding all possible outputs
B) Enabling computers to learn from data without explicit programming
C) Storing large amounts of information
D) Creating web applications

Q10: Which software development methodology focuses on iterative development and collaboration?

A) Waterfall B) Agile C) V-Model D) Spiral

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanarayan

Subject Code:

Month/Year: Sept. 2022

Branch:

Subject: Technical Skill.

Sl. No	REGD NO	NAME	27/09	28/09	29/09	01/10	03/10	04/10	05/10	06/10	07/10	08/10
1	1901289217	ANANYA BAL	1	2	3	4	5	6	7	8	9	10
2	1901289218	ANIKET NAYAK	1	2	3	4	5	X	6	7	8	9
3	1901289219	ANIL KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
4	1901289220	ANISHA MOHANTY	X	1	2	4	5	X	6	7	8	9
5	1901289221	ANJALI KISAN	1	2	3	4	5	6	7	8	9	10
6	1901289223	ARPITA DASH	1	2	3	4	5	X	6	7	8	9
7	1901289224	ASHISH RANJAN PRADHAN	1	2	3	4	5	6	7	X	8	9
8	1901289225	ASHISH SENAPATI	1	2	3	4	5	6	7	X	8	9
9	1901289226	BALARAM SAHOO	1	2	X	3	4	5	6	X	7	8
10	1901289227	BARSHARANI MOHANTY	1	2	X	3	4	5	6	7	8	9
11	1901289228	BIKASH RANJAN NAYAK	1	2	X	3	4	5	6	7	8	9
12	1901289229	BINAYA KUMAR MOHANTY	X	1	2	3	4	5	6	7	8	9
13	1901289230	CHINMAY KUMAR PANDA	1	2	3	4	5	6	X	7	8	9
14	1901289231	DIBYAJYOTI SAHOO	1	2	3	4	5	6	7	8	9	X
15	1901289232	DIPANKAR DUTTA	1	2	3	4	5	6	7	8	9	X
16	1901289233	HARA PRASAD PATRA	1	2	3	4	5	6	7	8	9	10
17	1901289234	HAREKRUSHNA SAHOO	1	2	3	4	5	6	7	8	9	10
18	1901289235	HIMANSHUSHEKHAR DINBANDHU SWAIN	1	X	2	3	4	5	6	7	8	9
19	1901289236	JYOTI PRAKASH PATRA	1	X	2	3	4	5	X	6	7	8
20	1901289237	JYOTIPRAKASH JENA	1	2	3	4	5	6	X	7	8	9
21	1901289238	KAPURAMANI SOREN	1	2	3	4	5	6	7	8	9	X
22	1901289240	LOPAMUDRA PRADHAN	1	2	3	4	5	6	7	8	9	X
23	1901289241	M. SAI SIMRON	1	2	X	3	4	5	6	7	8	9
24	1901289242	MAHESH BEHERA	1	2	3	4	5	6	7	8	9	10
25	1901289243	MONALISHA BHUYAN	1	2	3	4	5	6	7	8	9	10
26	1901289244	MUKESH KUMAR MAHARANA	X	1	2	3	4	5	6	7	8	9
27	1901289245	NIKHIL KUMAR RAY	1	2	3	4	5	6	7	8	9	10
28	1901289246	OMPRAKASH SAHOO	1	2	3	4	5	6	7	8	9	10
29	1901289247	PRAGYAN PRAVA SWAIN	1	2	3	4	5	6	7	X	8	9
30	1901289248	PRASUN MUKHERJEE	1	2	3	4	5	6	7	X	8	9
31	1901289249	RAJAT KUMAR DWARI	1	2	X	3	4	5	6	7	8	9
32	1901289250	RANJIT KUMAR PATRA	1	2	X	3	4	5	6	7	8	9
33	1901289251	ROMIT RANJAN RAY	1	2	3	4	5	6	7	8	9	10
34	1901289252	SAGAR GAUTAM PANDA	1	2	3	4	5	6	7	8	9	10

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Trident Academy of Technology
Bhubaneswar-751024

35	1901289253	SAKET KASHYAP	1	2	3	4	5	6	7	8	9	10
36	1901289254	SASWATI PATRA	1	2	3	4	5	X	6	7	8	9
37	1901289255	SATYAM NAYAK	1	2	3	4	5	X	6	7	8	9
38	1901289256	SAURAV KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10
39	1901289257	SEIKH SHAMMA	1	2	X	3	4	5	6	7	8	9
40	1901289008	A ROHAN KUMAR SUBUDHI	1	2	3	4	5	6	7	8	9	10
41	1901289009	A SOHAN KUMAR SUBUDHI	1	2	3	4	5	6	7	8	X	9
42	1901289010	AJAY PRATAP SINGH	1	2	3	4	5	6	7	8	X	9
43	1901289011	ANKIT ROUT	1	2	3	4	5	6	7	8	X	9
44	1901289012	ARVIND KUMAR	1	2	3	4	5	6	X	7	8	9
45	1901289013	BHESAJ KUMAR SAHU	1	2	3	4	5	6	X	7	8	9
46	1901289014	JANGYA PRAKASINI ROUT	1	2	3	4	5	6	7	8	9	10
47	1901289015	KALINGAKETAN KRUSHNAPRASAD JENA	1	2	3	4	5	6	7	8	9	10
48	1901289016	KRISHNA KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
49	1901289017	NIKHIL KUMAR PRAMANIK	1	2	3	4	5	6	X	7	8	9
50	1901289018	NISHITA PANDA	1	2	3	4	5	6	X	7	8	9
51	1901289019	NITISH KUMAR MOHANTY	X	1	2	3	4	5	6	7	8	X
52	1901289020	PUJAMAYEE PARIDA	1	2	3	4	5	6	7	8	9	X
53	1901289021	SAHIL BALASAMANTA	1	2	3	4	5	6	7	X	8	9
54	1901289022	SHATABDI MOHANTY	1	2	3	4	5	6	7	X	8	9
55	1901289023	SRITAM DEHURY	1	2	X	3	4	5	6	7	8	9
56	1901289024	SUBHAM NANDA	1	2	3	4	5	6	7	X	8	9
57	1901289025	SUDAN SINGH	1	2	3	4	5	6	7	8	9	10
58	1901289026	SWAPNAM SOURAV DALAI	1	2	3	4	5	6	7	8	9	10
59	1901289027	SASWATI SWAIN	1	2	3	4	5	6	7	8	9	10
60	2021289001	ABHISEKH PAL	1	2	3	X	4	5	6	7	8	9
61	2021289002	AMRUTA DASH	1	2	3	X	4	5	6	7	8	9
62	2021289003	JYOTI ADITYA SAHU	1	2	3	4	5	6	7	8	9	10
63	2021289004	M R SUBHANGI	1	2	3	4	5	X	6	7	8	9
64	2021289005	MANISHA NAIK	1	2	3	4	5	6	7	8	9	10
65	2021289006	MOHAN SHARMA	1	2	3	4	5	6	7	8	9	10
66	2021289007	NISHANT SWAIN	1	2	3	4	5	6	7	X	8	9
67	2021289008	PAYAL NAG	X	1	2	3	4	5	6	7	8	9
68	2021289009	RITIK ROSHON BEURA	1	2	X	3	4	5	6	7	8	9
69	2021289010	SUBHAM DEBNATH	1	2	3	4	5	6	7	8	9	10
70	2021289011	SUPRIYA KUMAR RATH	1	2	3	4	5	6	7	8	9	10
71	2021289012	AVINASH PRADHAN	1	2	3	4	5	6	7	8	9	X
72	2021289013	BHAGIRATHI JAYSINGH	1	2	3	4	5	6	7	8	9	X
73	2021289014	DHIRAJ KUMAR PRADHAN	1	2	3	4	5	6	7	8	9	10
74	2021289015	PRAGATI BEHERA	X	1	2	3	4	5	6	7	8	9
75	2021289016	PRERANA BEHERA	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanarayan

Month/Year: Sept. 2022

Subject Code:

Branch:

Subject: Technical Skills

Sl. No	REGD NO	NAME	10/10	11/10	12/10								
1	1901289217	ANANYA BAL	11	12	13								
2	1901289218	ANIKET NAYAK	10	11	12								
3	1901289219	ANIL KUMAR BEHERA	11	12	13								
4	1901289220	ANISHA MOHANTY	10	11	12								
5	1901289221	ANJALI KISAN	11	X	12								
6	1901289223	ARPITA DASH	10	X	11								
7	1901289224	ASHISH RANJAN PRADHAN	10	X	11								
8	1901289225	ASHISH SENAPATI	10	11	12								
9	1901289226	BALARAM SAHOO	9	10	11								
10	1901289227	BARSHARANI MOHANTY	10	11	12								
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17	1901289234	HAREKRUSHNA SAHOO	11	X	12								
18	1901289235	HIMANSHUSHEKHAR DINBANDHU SWAIN	10	11	X								
19	1901289236	JYOTI PRAKASH PATRA	9	10	11								
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52	1901289020	PUJAMAYEE PARIDA	10	11	12								
53	1901289021	SAHIL BALASAMANTA	10	X	11								
54	1901289022	SHATABDI MOHANTY	10	11	12								
55	1901289023	SRITAM DEHURY	10	11	12								
56	1901289024	SUBHAM NANDA	10	11	X								
57	1901289025	SUDAN SINGH	11	12	13								
58	1901289026	SWAPNAM SOURAV DALAI	11	12	13								
59	1901289027	SASWATI SWAIN	11	X	12								
60	2021289001	ABHISEKH PAL	10	11	12								
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62	2021289003	JYOTI ADITYA SAHU	11	X	12								
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72	2021289013	BHAGIRATHI JAYSINGH	10	11	12								
73	2021289014	DHIRAJ KUMAR PRADHAN	11	X	12								
74	2021289015	PRAGATI BEHERA	10	11	12								
75	2021289016	PRERANA BEHERA	11	12	X								

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 05.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: **Permission to start a certificate course in "Mastering Python through Guided Problem Solving" for B. Tech students.**

Respected Sir,

As per our departmental meeting held on 03.09.2022, we are planning to start a course on "Mastering Python through Guided Problem Solving" from 19.09.2022. The objective of this course is to provide students with foundational and advanced knowledge of Python programming, focusing on data analysis, visualization, and problem-solving techniques. This course aims to provide hands-on experience to students.

The course duration, schedule, and syllabus are attached for your perusal.

Thanking You

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Python through Guided Problem Solving

Total Lecture Periods: 35hrs

Course Objectives:

This course is designed to enhance the students' proficiency in Python programming through hands-on, guided problem-solving exercises. Students will gain a solid foundation in Python programming and learn how to apply Python to solve real-world problems in various domains, including software development, data analysis, machine learning, and scientific computing.

MODULES

Module-I: Introduction to Python Programming [10 periods]

- Overview of Python and its capabilities
- Basic Python syntax and commands
- Data types, variables, and operators
- Control structures: loops (for, while), conditionals (if-else)
- Functions, modules, and packages
- Debugging techniques and handling exceptions

Module-II: Data Structures and Algorithms in Python [10 periods]

- Lists, Tuples, and Dictionaries
- Sets and Strings in Python
- Stacks, Queues, and Linked Lists
- Sorting and searching algorithms
- Time and space complexity analysis
- Problem-solving exercises with common algorithms

Module-III: Data Analysis and Visualization [7 periods]

- Introduction to NumPy and Pandas for data manipulation
- Data cleaning and preprocessing
- Data visualization with Matplotlib and Seaborn
- Creating interactive plots with Plotly
- Working with large datasets
- Case study: Data analysis of real-world data

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Module-IV: Advanced Python Topics [8 periods]

- Object-Oriented Programming (OOP) in Python
- Introduction to Machine Learning with Python (using libraries like Scikit-learn)
- Web scraping with Beautiful Soup and Requests
- File handling and regular expressions
- Multi-threading and multiprocessing
- Practical applications: Building a small Python project (e.g., web app, data analysis tool, etc.)

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the core concepts of Python programming and apply them to solve problems.
- **CO2**: Use Python's built-in libraries (NumPy, Pandas, Matplotlib) for data manipulation and analysis.
- **CO3**: Implement algorithms and data structures in Python for efficient problem-solving.
- **CO4**: Visualize and interpret data using Python visualization tools.
- **CO5**: Apply object-oriented programming principles to build Python applications.
- **CO6**: Use Python for machine learning tasks and integrate it with real-world applications.

Evaluation Process

1. **Attendance**: A minimum of 75% attendance is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and assessment.

Learning Resources

- **Suggested Books:**
  1. "Python for Data Analysis" by Wes McKinney
  2. "Python Crash Course" by Eric Matthes
  3. "Automate the Boring Stuff with Python" by Al Sweigart
  4. "Fluent Python" by Luciano Ramalho

Subhra Swetanisha
(Course Instructor)

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Python through Guided Problem Solving

Sl No	Date	Time	Course Content
1	19/09/2022	3:00PM-6:00PM	Overview of Python and its capabilities, Basic Python syntax and commands.
2	20/09/2022	3:00PM-6:00PM	Data types, variables, operators, and control structures (loops and conditionals)
3	21/09/2022	3:00PM-6:00PM	Functions, modules, packages, debugging techniques, and exception handling
4	22/09/2022	3:00PM-6:00PM	Lists, Tuples, Dictionaries, Sets, and Strings
5	23/09/2022	3:00PM-6:00PM	Stacks, Queues, Linked Lists, and their applications
6	24/09/2022	3:00PM-6:00PM	Sorting and searching algorithms, time and space complexity analysis
7	26/09/2022	3:00PM-6:00PM	Data manipulation using NumPy and Pandas, data cleaning and pre-processing
8	27/09/2022	3:00PM-6:00PM	Data visualization with Matplotlib, Seaborn, and interactive plots using Plotly
9	28/09/2022	3:00PM-6:00PM	Working with large datasets and a case study on real-world data analysis
10	29/09/2022	3:00PM-6:00PM	OOP concepts in Python: Classes, Objects, and Methods
11	30/09/2022	3:00PM-6:00PM	Web scraping with Beautiful Soup and Requests, file handling, and regular expressions
12	01/10/2022	4:00PM-6:00PM	Multi-threading, multiprocessing, and introduction to machine learning with Python, Building a small project (e.g., web app or data analysis tool)
13	03/10/2022	5:00PM-6:00PM	Assessment

S Swetha

Subhra Swetanisha
(Course Instructor)

P Chand

(HOD, CSE)

HOD
Computer Science Engg.

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:06.09.2022

This is to inform all B. Tech students that the department of CSE will start an add-on course on "Mastering Python through Guided Problem Solving" starting from 19.09.2022. Interested students must register on or before 15.09.2022. The course details are as follows:

- Course Name: Mastering Python through Guided Problem Solving
- Instructor Name: Subhra Swetanisha
- Registration Contact: 8249857798

Principal
Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 17.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: <u>Number of Students Enrolled for the Add-on Course on "Mastering Python through Guided Problem Solving.</u>

Respected Sir,

We are going to start course on "Mastering Python through Guided Problem Solving" from 19.09.2022 and a total of 39 Students have enrolled for this course. This is for your kind information.

Subhra Swetanisha
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

ATTESTED

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Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:03.10.2022

Python
ASSESSMENT

Name of the Student: Smruti Sena

Regd No: 1901x89134

All Questions Compulsory

8/10

Q1: What is the correct file extension for Python files?

A) .py B) .java C) .cpp D) .exe

Q2: Which keyword is used to define a function in Python?

A) func B) def C) function D) define

Q3: What will print(type([])) output?

A) <class 'list'> B) <class 'tuple'> C) <class 'dict'> D) <class 'set'>

Q4: What does the len() function do?

A) Returns the last element of a list B) Returns the length of an object

C) Converts a string to lowercase D) Reverses a list

Q5: How do you insert a comment in Python?

A) // This is a comment B) -- This is a comment

C) # This is a comment D) <!-- This is a comment -->

Q6: What will 3 == "3" return in Python?

A) True B) False C) Error D) None

Q7: Which of the following is used to handle exceptions in Python?

A) try-except B) if-else C) switch-case D) for-while

Q8: What is the output of bool([]) in Python?

A) True B) False C) None D) Error

Q9: Which data type is mutable in Python?

A) Tuple B) String C) List D) Integer

Q10: What is the output of print (23) in Python?**

A) 6 B) 8 C) 9 D) 16

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Subhra Swetanisha

Month/Year: Sept. 2022

Subject Code:

Branch:

Subject: Mastering Python through Guided Data Sciences

Sl. No	REGD NO	NAME	19/9	20/9	21/9	22/9	23/9	24/9	26/9	27/9	28/9	29/9
1	1901289104	HARDHIK MAHARANA	1	2	3	4	X	5	6	7	8	9
2	1901289105	HIMANSHU HOTA	1	2	3	4	X	5	6	7	8	9
3	1901289106	HIMANSHU KESHRI	1	2	3	4	5	X	6	7	8	9
4	1901289107	HITANSHU JENA	1	X	2	3	4	5	X	6	7	8
5	1901289108	JANHABI SWAIN	1	2	3	4	X	X	5	6	7	8
6	1901289109	JYOTI BIKASH PAUL	1	2	3	4	5	6	7	8	9	10
7	1901289110	JYOTI RANJAN OJHA	1	2	3	4	5	6	7	8	9	10
8	1901289111	JYOTIRMAYA NAYAK	X	1	2	3	4	5	6	7	8	9
9	1901289112	JYOTIRMAYEE DASH	1	2	3	4	5	6	7	8	9	10
10	1901289113	KAMAL NAYAN SWAIN	1	2	3	4	5	X	6	7	8	9
11	1901289114	KIRAN KUMAR BAL	1	2	3	X	4	5	6	7	8	9
12	1901289115	KSHAMA ANURAG LENKA	X	1	2	3	4	5	6	7	8	9
13	1901289116	KUMAR AKASH	X	1	2	3	4	X	5	6	X	7
14	1901289117	LAKSHMAN KUMAR	X	1	2	3	4	5	6	7	8	9
15	1901289118	MAHESH KUMAR DAS	X	1	X	2	3	4	5	6	7	8
16	1901289119	MD AAMIR ALAM	X	1	2	3	4	5	6	7	8	9
17	1901289120	MD. SAJID ALI	X	1	2	3	4	5	6	7	8	9
18	1901289121	MONALI MONALISHA SAHOO	1	2	3	X	4	5	6	7	8	9
19	1901289122	MONALISA BOITAI	1	2	3	4	5	6	7	8	9	10
20	1901289123	MOUSUMI MOHAPATRA	1	2	3	4	5	6	7	8	X	9
21	1901289124	NAGENDRA KUMAR MEHER	1	2	X	3	X	X	4	5	6	7
22	1901289125	NAINALI NANDA	1	X	2	3	4	X	5	6	7	8
23	1901289126	OM PRAKASH SAMAL	1	2	X	3	4	5	6	7	8	9
24	1901289127	PABITRA SURYA SEKHAR BEHERA	1	2	3	X	4	5	6	7	8	9
25	1901289128	PADMINI PRIYADARSINI MISHRA	1	2	3	4	5	6	7	X	8	9
26	1901289129	POOJA PAUL	X	1	2	3	4	5	6	7	X	8
27	1901289130	PRAKASH CHANDRA SINGH	1	2	X	3	4	5	6	7	8	9
28	1901289131	PRALAYA KUMAR SWAIN	1	2	3	4	5	X	X	6	7	8
29	1901289132	PRANAY RAJ	1	2	3	X	4	5	6	7	8	9

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30	1901289133	PRATIGNYA PRODAR	X	1	2	3	4	5	6	X	7	8	
35	1901289134	PRATIK JENA	1	2	3	4	5	6	7	8	9	10	
36	1901289135	PRATIK KUMAR	X	1	2	3	X	4	5	6	7	8	
37	1901289148	RITIK KUMAR SAHOO	1	2	3	X	4	5	6	7	X	8	
38	1901289149	RUDRAKSH SHARMA	1	2	3	4	5	6	7	8	9	10	
39	1901289150	SAGAR PATTANAIK	X	1	2	3	X	4	5	6	7	8	

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Subhra Swetanisha

Month/Year: 9/2022

Subject Code:

Branch:

Subject: Mastering Python

Sl. No	REGD NO	NAME	30/9	01/10	03/10							
1	1901289104	HARDHIK MAHARANA	10	11	12							
2	1901289105	HIMANSHU HOTA	10	11	12							
3	1901289106	HIMANSHU KESHRI	10	X	12							
4	1901289107	HITANSHU JENA	9	10	11							
5	1901289108	JANHABI SWAIN	X	9	10							
6	1901289109	JYOTI BIKASH PAUL	11	12	13							
7	1901289110	JYOTI RANJAN OJHA	11	12	13							
8	1901289111	JYOTIRMAYA NAYAK	X	10	11							
9	1901289112	JYOTIRMAYEE DASH	11	12	13							
10	1901289113	KAMAL NAYAN SWAIN	X	10	11							
11	1901289114	KIRAN KUMAR BAL	X	10	11							
12	1901289115	KSHAMA ANURAG LENKA	10	X	11							
13	1901289116	KUMAR AKASH	8	9	10							
14	1901289117	LAKSHMAN KUMAR	10	11	12							
15	1901289118	MAHESH KUMAR DAS	9	10	11							
16	1901289119	MD AAMIR ALAM	X	10	11							
17	1901289120	MD. SAJID ALI	X	10	11							
18	1901289121	MONALI MONALISHA SAHOO	10	X	11							
19	1901289122	MONALISA BOITAI	11	12	13							
20	1901289123	MOUSUMI MOHAPATRA	10	X	11							
21	1901289124	NAGENDRA KUMAR MEHER	8	9	10							
22	1901289125	NAINALI NANDA	9	10	X							
23	1901289126	OM PRAKASH SAMAL	X	10	11							
24	1901289127	PABITRA SURYA SEKHAR BEHERA	10	11	X							
25	1901289128	PADMINI PRIYADARSINI MISHRA	10	11	X							
26	1901289129	POOJA PAUL	9	10	11							
27	1901289130	PRAKASH CHANDRA SINGH	10	X	11							
28	1901289131	PRALAYA KUMAR SWAIN	9	10	X							
29	1901289132	PRANAY RAJ	10	11	12							

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30	1901289133	PRATIGNYA PRODAR	9	10	11								
35	1901289134	PRATIK JENA	11	12	13								
36	1901289135	PRATIK KUMAR	9	10	11								
37	1901289148	RITIK KUMAR SAHOO	9	X	X								
38	1901289149	RUDRAKSH SHARMA	X	11	12								
39	1901289150	SAGAR PATTANAIK	9	10	11								

Signature of Teacher

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF CSE

Ref: TAT/CSE/369/2022

Date: 29.01.2022

To,

The principal

Trident Academy of Technology,BBSR

Sub: Permission to start certificate course in "Introduction to machine learning" for B.Tech(CSE) students.

Sir,

As per our departmental meeting held on dated 28-01-2022, we are planning to start an add on course "Introduction to machine learning" from 7th of February. The objective of the course is to give basic knowledge of ML to our CSE students. The course duration and schedule are attached for your perusal.

Thanking You

HOD(CSE)

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Principal
Trident Academy of Technology
Bhubaneswar-751024

HOD

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF CSE

Course : Introduction to machine learning

Duration: 40 hours

Detailed Syllabus

Day 1 :–The Foundations of Artificial Intelligence; -- Agents and Environments, Good Behavior: The Concept of Rationality, the Nature of Environments, the Structure of Agents

Day 2: Problem-Solving Agents, Formulating problems, Searching for Solutions.

Day 3: Uninformed Search Strategies, Breadth-first search, Depth-first search, Searching with Partial Information,.

Day 4:Informed (Heuristic) Search Strategies, Greedy best-first search, A* Search, CSP, Means-End-Analysis.–

Games, The Mini-Max algorithm, optimal decisions in multiplayer games, Alpha-Beta Pruning, Evaluation functions, Cutting off search

Day5: Knowledge-Based agents, Logic, Propositional Logic, Reasoning Patterns in Propositional Logic, Resolution.

Day 6: Forward and Backward chaining - FIRST ORDER LOGIC – Syntax and Semantics of First-Order Logic, Using First-Order Logic , Knowledge Engineering in First-Order Logic .

Day 7: Propositional vs. First-Order Inference, Unification and Lifting, Forward Chaining, Backward Chaining, Resolution Acting under Uncertainty, Basic Probability Notation.

Day 8: The Axioms of Probability, Inference Using Full Joint Distributions, Independence, Bayes' Rule and its Use.

Day 9: Representing Knowledge in an Uncertain Domain, The Semantics of Bayesian Networks.

Day 10: Efficient Representation of Conditional Distribution, Exact Inference in Bayesian Networks, Approximate Inference in Bayesian Networks

Course Instructor
Swagat ku. Jena
Asst. Prof. (CSE)

ATTESTED

HOD, Dept
HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF CSE

INTRODUCTION TO MACHINE LEARNING

SCHEDULE

Date	Day	Time	Course Content
7/2/2022	1.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• The Foundations of Artificial Intelligence • Agents and Environments, Good Behavior • The Concept of Rationality • The Nature of Environments • The Structure of Agents
8/2/2022	2.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• Problem-Solving Agents • Formulating problems • Searching for Solutions
9/2/2022	3.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• Uninformed Search Strategies, • Breadth-first search • Depth-first search • Searching with Partial Information
10/2/2022	4.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• Informed (Heuristic) Search Strategies, Greedy best-first search • A* Search, CSP, Means-End-Analysis. • Games, The Mini-Max algorithm, optimal decisions in multiplayer games • Alpha-Beta Pruning, Evaluation functions, Cutting off search
11/2/2022	5.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• Knowledge-Based agents, Logic • Propositional Logic • Reasoning Patterns in Propositional Logic, Resolution.
12/2/2022	6.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30	• Forward and Backward chaining • FIRST ORDER LOGIC • Syntax and Semantics of First-Order Logic

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		AM (Slot 2)	• Using First-Order Logic • Knowledge Engineering in First-Order Logic
14/2/2022	7.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• Propositional vs. First-Order Inference • Unification and Lifting, Forward Chaining • Backward Chaining, Resolution • Acting under Uncertainty, Basic Probability Notation.
15/2/2022	8.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• The Axioms of Probability • Inference Using Full Joint Distributions,Independence, Bayes' Rule and its Use.
16/2/2022	9.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• Representing Knowledge in an Uncertain Domain The Semantics of Bayesian Networks.
17/2/2022	10.	8.30 AM-10.30 AM (Slot 1) 5:30 AM-7:30 AM (Slot 2)	• Efficient Representation of Conditional Distribution • Exact Inference in Bayesian Networks • Approximate Inference in Bayesian Networks

Course Instructor
Swagat ku. Jena
Asst.Prof.(CSE)

HOD, Dept
[redacted] HOD
Computer Science Engg

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TRIDENT ACADEMY OF TECHNOLOGY

Ref: TAT/672/2022 Date:01.02.2022

NOTICE

This is to inform to all the students of B.Tech(CSE), that the department is going to Conduct an add on course on 'Introduction to Machine Learning from 7th February, 2022. All Students are instructed to register for the course on or before 3rd of February 2022. The details of the courses are as follows.

Course name: Introduction to Machine Learning

Instructor name: Dr.Subhra Swetanisha, HOD, CSE(AIML)

Incharge of Students Registration: Mr.Sashi Bhusan Parida ,Asst. Prof. (CSE)

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Principal
01/02/22

Principal
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Plot No - F2/A, Chandaka Industrial Estate, Infocity Area Chandrasekharpur, Bhubaneswar-751024, Odisha
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Intoduction to Machine Learning

WHY MACHINE LEARNING

Machine Learning helps to trend in operational business patterns as well as support the development of new product

VENUE

Department Of Computer Science & Engineering, TAT,BBSR

STARTS FROM

7.2.2022

CONTACT US

SAILASHREE VIHAR,BBSR

9439177066,9337644096

hodcse@tat.ac.in

Welcome to TRIDENT ACADEMY OF TECHNOLOGY

THE WAY OF NEW BEGINING

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF CSE

Ref: TAT/CSE/370/2022

Date:05.02.2022

To

The principal

Trident Academy of Technology

Sir

The list of students from different specialization who have enrolled for value-added course on "Introduction to Machine Learning" are given below.

SL.NO.	NAME	Reg.Number
1	ABHISHEK KUMAR ROY	2101289380
2	ABHISHEK KUMAR SINGH	2101289381
3	ADITI OJHA	2101289382
4	AHENA NAYAK	2101289383
5	AISHWARYA MOHANTY	2101289384
6	AMAN RAJ	2101289385
7	AMBARISH NANDA	2101289386
8	AMIT MISHRA	2101289387
9	ANKIT ANUP NAYAK	2101289388
10	ANKIT PANDA	2101289389
11	ANURAG NAYAK	2101289439
12	ARMAN SWAIN	2101289390
13	ARPITA ROUL	2101289391
14	ASHIS NAYAK	2101289392
15	ASHUTOSH BEHERA	2101289393
16	ASHUTOSH PATTNAIK	2101289440
17	AVIPSA SAHOO	2101289394
18	AYUSH ARYAN SINGH	2101289395
19	AYUSMAN ACHARYA	2101289396
20	CH ANIL KUMAR	2101289397
21	DEBANSU SEKHAR BAL	2101289398
22	DEBASISH MALLIK	2101289399
23	DEBI PRASAD SAHOO	2101289400
24	DEEPAK MOHANTY	2101289401
25	DEV SHARMA	2101289402
26	DIBYATMAN KHADANGA	2101289403
27	GHULAM HUSSAIN	2101289404

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	GUDDY SAMAL	2101289405
29	JASMIN MAHAPATRA	2101289406
30	JAWED REZA	2101289407
31	JIBANJYOTI ROUT	2101289408
32	K. ADITYA PRATAP DAS	2101289409
33	KRITIKINCHAN PALAI	2101289410
34	LINCON KUMAR DEHURY	2101289411
35	MALANTI KUDADA	2121289059
36	MD HASNAIN	2101289412
37	NANDNI RATHOR	2101289413
38	NEELAXI BEHERA	2101289414
39	NISHAN PAL	2101289415
40	OMKAR NAYAK	2101289416
41	PARTHASARATHI BEHERA	2101289417
42	PINAKI PRASAD KAR	2101289418
43	PRANGYA RATH	2101289419
44	PRATHAM RANA	2101289420
45	PRATIKSHYA MOHANTY	2101289421
46	PUNPUN PATTANAIK	2101289422
47	RAKESH KUMAR SAHOO	2101289423
48	RUDRA PRAKASH PADHI	2101289424
49	RUDRA PRASAD TARAI	2101289425
50	SAHIL KUMAR	2101289426
51	SANCHARI NAG	2101289427
52	SATYAJIT SAHOO	2101289441
53	SHRADHALINI SAHOO	2101289428
54	SINHAL SATAPATHY	2101289429
55	SOMESH MISHRA	2101289430
56	SONALI NAYAK	2101289431
57	SOUMYA RANJAN BARICK	2101289432
58	SOURAV SUMAN MOHANTY	2101289433
59	SOUVIK SINGHA ROY	2101289434
60	SUBHASISH NAYAK	2101289435
61	SURAJ KUMAR	2101289436
62	SURAJIT SAHA	2101289437

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Course Instructor

Swagat ku. Jena

Assistant prof. CSE

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HOD, CSE

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:17.02.2022

Introduction to Machine Learning
ASSESSMENT

Name of the Student:
Regd No:

10/10

All Questions Compulsory

Q1: What is Machine Learning?
A) A type of AI that enables computers to learn from data
B) A method for designing websites
C) A programming language
D) A database management system

Q2: Which of the following is a type of Machine Learning?
A) Supervised Learning B) Cloud Computin C) Web Scrapin D) Data Mining

Q3: What does a neural network mimic?
A) Human lungs B) Human brai C) Computer processor D) Internet servers

Q4: What is the purpose of a loss function in Machine Learning?
A) To increase accuracy B) To measure model error
C) To store data D) To build datasets

Q5: Which of the following is NOT a Machine Learning algorithm?
A) Decision Tree B) Linear Regression
C) SQL Query D) Support Vector Machine

Q6: Which library is commonly used for Machine Learning in Python?
A) NumPy B) Pandas C) Scikit-learn D) Flask

Q7: What is the process of splitting data into training and testing sets called?
A) Data Classification B) Data Splitting
C) Data Preprocessing D) Data Analysis

Q8: What is overfitting in Machine Learning?
A) When the model learns noise instead of patterns B) When the model has zero error
C) When the model performs well on new data D) When the model ignores data

Q9: Which of the following is a type of Unsupervised Learning?
A) Linear Regression B) K-Means Clustering
C) Decision Tree D) Logistic Regression

Q10: What does "AI" stand for?
A) Artificial Intelligence
B) Automated Integration
C) Advanced Internet
D) Algorithm Implementation

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Semester-

Trident Academy of Technology, Bhubaneswar

Month Year- 7/12

Subject/Code- Introduction to M/C Lang Attendance Sheet

Branch-

Name of Teacher- Swagat Jena

Section-

SL.NO	Reg.Number	NAME	7/12 (I)	7/12 (II)	8/12 (I)	8/12 (II)	9/12 (I)	9/12 (II)	10/12 (I)	10/12 (II)	11/12 (I)	11/12 II
1	2101289380	ABHISHEK KUMAR ROY	P	P	P	P	A	P	A	P	P	A
2	2101289381	ABHISHEK KUMAR SINGH	P	P	A	P	P	P	P	P	P	P
3	2101289382	ADITI OJHA	P	P	P	A	P	P	P	A	P	P
4	2101289383	AHENA NAYAK	P	P	P	P	P	A	P	P	P	P
5	2101289384	AISHWARYA MOHANTY	P	P	P	P	P	P	P	P	P	P
6	2101289385	AMAN RAJ	A	P	P	P	P	P	P	P	P	P
7	2101289386	AMBARISH NANDA	P	P	A	P	P	P	P	P	A	P
8	2101289387	AMIT MISHRA	P	P	P	P	P	A	P	A	P	P
9	2101289388	ANKIT ANUP NAYAK	A	P	P	P	P	P	P	P	P	A
10	2101289389	ANKIT PANDA	P	P	P	A	P	P	P	P	P	P
11	2101289439	ANURAG NAYAK	P	P	P	P	P	P	P	P	P	P
12	2101289390	ARMAN SWAIN	P	P	P	P	A	P	P	P	P	P
13	2101289391	ARPITA ROUL	P	A	P	P	P	P	P	A	P	P
14	2101289392	ASHIS NAYAK	P	P	A	P	P	P	P	P	P	P
15	2101289393	ASHUTOSH BEHERA	P	P	P	P	P	A	P	P	P	P
16	2101289440	ASHUTOSH PATTNAIK	P	P	P	A	P	P	A	P	P	P
17	2101289394	AVIPSA SAHOO	P	P	P	P	P	P	P	P	P	P
18	2101289395	AYUSH ARYAN SINGH	P	P	P	P	P	A	P	P	P	P
19	2101289396	AYUSMAN ACHARYA	A	P	P	P	P	P	P	P	A	P
20	2101289397	CH ANIL KUMAR	P	P	P	P	P	P	P	P	P	A
21	2101289398	DEBANSU SEKHAR BAL	P	P	A	P	P	P	P	P	P	P
22	2101289399	DEBASISH MALLIK	P	P	P	P	P	P	P	P	P	P
23	2101289400	DEBI PRASAD SAHOO	P	P	P	P	P	P	P	P	P	P
24	2101289401	DEEPAK MOHANTY	P	P	P	P	A	P	P	P	A	P
25	2101289402	DEV SHARMA	P	P	P	P	P	P	P	P	P	P
26	2101289403	DIBYATMAN KHADANGA	P	P	P	P	P	P	A	P	P	P
27	2101289404	GHULAM HUSSAIN	P	P	P	P	P	P	P	P	P	P
28	2101289405	GUDDY SAMAL	P	P	P	P	P	P	P	A	P	P
29	2101289406	JASMIN MAHAPATRA	P	P	A	P	P	P	P	P	P	P
30	2101289407	JAWED REZA	A	P	P	P	P	P	P	P	P	A
31	2101289408	JIBANJYOTI ROUT	P	P	P	P	A	P	P	P	P	P
32	2101289409	K. ADITYA PRATAP DAS	P	P	P	A	P	P	P	P	P	P
33	2101289410	KRITIKINCHAN PALAI	P	A	P	P	P	P	P	P	P	P
34	2101289411	LINCON KUMAR DEHURY	P	P	P	P	P	A	P	P	A	P
35	2121289059	MALANTI KUDADA	P	P	P	P	P	P	P	P	P	P
36	2101289412	MD HASNAIN	P	P	P	P	P	P	P	A	P	P
37	2101289413	NANDNI RATHOR	P	P	P	P	P	P	P	P	P	P
38	2101289414	NEELAXI BEHERA	A	P	P	P	P	P	P	P	P	P
39	2101289415	NISHAN PAL	P	P	A	P	P	P	A	P	P	P
40	2101289416	OMKAR NAYAK	P	P	P	P	A	P	P	P	P	P

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41	2101289417	PARTHASARATHI BEHERA	P	P	A	P	P	P	P	A	P	P	
42	2101289418	PINAKI PRASAD KAR	P	P	P	P	P	A	P	P	P	P	
43	2101289419	PRANGYA RATH	A	P	P	P	A	P	P	P	P	P	
44	2101289420	PRATHAM RANA	P	P	P	A	P	P	P	A	P	P	
45	2101289421	PRATIKSHYA MOHANTY	P	A	P	P	P	P	A	P	P	P	
46	2101289422	PUNPUN PATTANAIK	P	P	A	P	P	P	P	P	P	P	
47	2101289423	RAKESH KUMAR SAHOO	A	P	P	P	P	P	P	P	P	A	
48	2101289424	RUDRA PRAKASH PADHI	P	P	P	A	P	P	A	P	P	P	
49	2101289425	RUDRA PRASAD TARAI	P	P	P	P	A	P	P	P	P	P	
50	2101289426	SAHIL KUMAR	P	P	P	P	P	A	P	P	A	P	
51	2101289427	SANCHARI NAG	P	A	P	P	P	P	P	P	P	P	
52	2101289441	SATYAJIT SAHOO	P	P	P	P	P	P	P	P	P	P	
53	2101289428	SHRADHALINI SAHOO	P	P	A	P	A	P	P	P	P	P	
54	2101289429	SINHAL SATAPATHY	A	P	P	P	P	P	P	P	P	P	
55	2101289430	SOMESH MISHRA	P	P	P	P	P	A	A	A	P	P	
56	2101289431	SONALI NAYAK	P	P	P	P	P	P	P	P	P	A	
57	2101289432	SOUMYA RANJAN BARICK	P	P	P	A	P	P	P	P	P	P	
58	2101289433	SOURAV SUMAN MOHANTY	P	P	P	P	P	P	P	P	A	P	
59	2101289434	SOUVIK SINGHA ROY	P	A	P	P	P	P	A	P	P	P	
60	2101289435	SUBHASISH NAYAK	P	P	A	P	A	P	P	P	P	P	
61	2101289436	SURAJ KUMAR	P	P	P	P	P	A	P	A	P	P	
62	2101289437	SURAJIT SAHA	P	P	P	A	P	A	P	P	P	A	

Signature of the Teacher

Signature of the HOD

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Semester-

Trident Academy of Technology, Bhubaneswar

Month/Year- 12/02/22

Subject Code-Introduction to M/c Learning Attendance Sheet

Branch-

Name of Teacher- Swagat Kr Sena

Section-

SL.NO	Reg.Number	NAME	12/2 (11)	12/2 (11)	14/2 (11)	14/2 (11)	15/2 (11)	15/2 (11)	16/2 (11)	16/2 (11)	17/2 (11)	17/2 (11)
1	2101289380	ABHISHEK KUMAR ROY	A	P	P	P	P	P	P	P	P	P
2	2101289381	ABHISHEK KUMAR SINGH	P	P	A	P	P	P	A	P	P	P
3	2101289382	ADITI OJHA	P	A	P	P	P	P	P	P	A	P
4	2101289383	AHENA NAYAK	P	P	P	A	P	P	P	P	P	P
5	2101289384	AISHWARYA MOHANTY	P	P	P	P	P	P	P	A	P	P
6	2101289385	AMAN RAJ	A	P	P	P	P	P	P	P	P	A
7	2101289386	AMBARISH NANDA	P	P	P	P	A	P	P	P	P	P
8	2101289387	AMIT MISHRA	P	P	P	P	P	P	P	P	P	P
9	2101289388	ANKIT ANUP NAYAK	P	A	P	P	P	P	P	P	P	P
10	2101289389	ANKIT PANDA	P	P	A	P	P	P	P	P	P	P
11	2101289439	ANURAG NAYAK	P	P	P	P	P	A	P	A	P	P
12	2101289390	ARMAN SWAIN	P	P	P	A	P	P	P	P	P	P
13	2101289391	ARPITA ROUL	P	P	P	P	A	P	P	P	P	A
14	2101289392	ASHIS NAYAK	P	P	P	P	P	P	A	P	P	P
15	2101289393	ASHUTOSH BEHERA	P	P	P	P	P	P	P	P	A	P
16	2101289440	ASHUTOSH PATTNAIK	A	P	P	P	P	P	P	A	P	P
17	2101289394	AVIPSA SAHOO	P	P	P	P	P	P	P	A	P	P
18	2101289395	AYUSH ARYAN SINGH	P	P	P	P	P	A	P	P	P	P
19	2101289396	AYUSMAN ACHARYA	P	P	A	P	P	P	P	P	P	P
20	2101289397	CH ANIL KUMAR	P	P	P	P	A	P	P	P	P	P
21	2101289398	DEBANSU SEKHAR BAL	P	A	P	P	P	P	P	P	P	P
22	2101289399	DEBASISH MALLIK	P	P	P	A	P	P	P	P	P	P
23	2101289400	DEBI PRASAD SAHOO	P	P	P	P	P	P	A	P	P	A
24	2101289401	DEEPAK MOHANTY	P	P	P	P	P	P	P	P	P	P
25	2101289402	DEV SHARMA	P	P	P	P	A	P	P	P	P	P
26	2101289403	DIBYATMAN KHADANGA	P	P	P	P	P	P	P	P	A	P
27	2101289404	GHULAM HUSSAIN	P	P	P	P	P	A	P	P	P	P
28	2101289405	GUDDY SAMAL	A	P	P	P	P	P	P	P	P	P
29	2101289406	JASMIN MAHAPATRA	P	P	A	P	P	P	P	P	P	P
30	2101289407	JAWED REZA	P	A	P	P	P	P	P	P	A	P
31	2101289408	JIBANJYOTI ROUT	P	P	P	A	P	P	P	P	P	A
32	2101289409	K. ADITYA PRATAP DAS	P	P	P	P	P	A	P	P	P	P
33	2101289410	KRITIKINCHAN PALAI	P	P	P	P	P	P	A	P	A	P
34	2101289411	LINCON KUMAR DEHURY	P	P	P	P	A	P	P	P	P	P
35	2121289059	MALANTI KUDADA	P	P	P	A	P	P	P	P	P	P
36	2101289412	MD HASNAIN	P	A	P	P	P	P	P	A	P	P
37	2101289413	NANDNI RATHOR	P	P	A	P	P	P	P	P	P	P
38	2101289414	NEELAXI BEHERA	P	P	A	P	P	P	P	P	P	P
39	2101289415	NISHAN PAL	A	P	P	P	P	P	P	P	P	P
40	2101289416	OMKAR NAYAK	P	A	P	P	P	P	A	P	P	P

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41	2101289417	PARTHASARATHI BEHERA	P	P	A	P	P	P	P	A	P	P		
42	2101289418	PINAKI PRASAD KAR	P	P	P	A	P	P	P	P	A	P		
43	2101289419	PRANGYA RATH	A	P	P	P	P	P	A	P	P	P		
44	2101289420	PRATHAM RANA	P	P	A	P	A	P	P	P	P	P		
45	2101289421	PRATIKSHYA MOHANTY	P	P	P	P	P	P	P	P	P	P		
46	2101289422	PUNPUN PATTANAIK	P	P	P	P	P	P	P	P	P	P		
47	2101289423	RAKESH KUMAR SAHOO	P	A	P	A	A	P	P	A	A	P		
48	2101289424	RUDRA PRAKASH PADHI	P	P	P	P	P	P	P	P	P	P		
49	2101289425	RUDRA PRASAD TARAI	P	P	A	P	P	A	P	P	P	P		
50	2101289426	SAHIL KUMAR	A	P	P	P	P	P	P	P	P	P		
51	2101289427	SANCHARI NAG	P	P	P	P	P	P	A	P	P	P		
52	2101289441	SATYAJIT SAHOO	P	A	P	P	P	P	P	A	P	P		
53	2101289428	SHRADHALINI SAHOO	P	P	P	P	P	P	P	P	P	P		
54	2101289429	SINHAL SATAPATHY	P	P	P	P	P	P	P	P	A	P		
55	2101289430	SOMESH MISHRA	A	P	P	P	A	P	P	P	P	P		
56	2101289431	SONALI NAYAK	P	P	A	P	P	P	P	A	P	P		
57	2101289432	SOUMYA RANJAN BARICK	P	A	P	A	P	P	P	P	P	A		
58	2101289433	SOURAV SUMAN MOHANTY	P	P	P	P	P	A	P	P	P	P		
59	2101289434	SOUVIK SINGHA ROY	P	P	P	P	P	P	P	P	P	P		
60	2101289435	SUBHASISH NAYAK	A	P	A	P	P	P	P	A	P	P		
61	2101289436	SURAJ KUMAR	P	P	P	A	P	P	P	P	P	P		
62	2101289437	SURAJIT SAHA	P	A	P	P	A	P	A	P	P	A		

Signature of the Teacher

Signature of the HOD

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Date:19.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering Technical Skills through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 17.09.2022 we are planning to start a course "Mastering Technical Skills through Guided Problem Solving" from 26.09.2022. The objective of the course is to provide in-depth training on essential technical skills required in industry to our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, CSE)

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SYLLABUS

Mastering Technical Skills through Guided Problem Solving

Total Lecture Periods: 36 hrs

Course Objectives:

This course aims to enhance students' proficiency in critical technical domains through hands-on problem-solving and practical exercises. The course covers essential skills such as programming, data handling, software development, and collaborative project management to prepare students for industry-ready roles.

MODULE-I: Introduction to Technical Skills [9 periods]

- **Topics:** Overview of industry demands, introduction to problem-solving techniques, and tools like IDEs and version control systems (Git).

MODULE-II: Programming Fundamentals [9 periods]

- **Topics:** Core programming concepts, structured programming, debugging practices, and writing optimized code in C/Python/Java.

MODULE-III: Data Handling and Analysis [9 periods]

- **Topics:** Introduction to data structures, databases, and data manipulation techniques using SQL/Excel/Pandas.

MODULE-IV: Industry-Oriented Project [9 periods]

- **Topics:** Real-world problem-solving using technical skills, collaborative team projects, and presentation of solutions.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Identify key technical requirements and apply problem-solving strategies.
CO2: Demonstrate proficiency in programming for solving technical problems.

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CO3: Use tools like Git and databases effectively in project development.
CO4: Analyze data for meaningful insights using technical tools.
CO5: Collaborate and deliver solutions for real-world scenarios.
CO6: Build a foundation for advanced technical certifications or specializations.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. *Clean Code: A Handbook of Agile Software Craftsmanship* by Robert C. Martin
2. *Introduction to Algorithms* by Thomas H. Cormen

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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SCHEDULE

Mastering Technical Skills through Guided Problem Solving

Sl No	Date	Time	Course Content
1	27.09.2022	3:00 PM-6:00 PM	Overview of current industry demands and emerging trends
2	28.09.2022	3:00 PM-6:00 PM	Fundamental problem-solving techniques and methodologies
3	29.09.2022	3:00 PM-6:00 PM	Overview of IDEs, version control systems (Git), and their setup
4	01.10.2022	3:00 PM-6:00 PM	Variables, data types, control structures, and basic programming syntax in C/Python/Java
5	03.10.2022	3:00 PM-6:00 PM	Functions, recursion, and debugging practices, Techniques for writing efficient and optimized code
6	04.10.2022	3:00 PM-6:00 PM	Introduction to arrays, lists, stacks, and queues, Basics of databases, writing queries, and data manipulation in SQL,
7	05.10.2022	3:00 PM-6:00 PM	Understanding project requirements and planning solutions collaboratively,
8	06.10.2022	3:00 PM-6:00 PM	Applying technical skills
9	07.10.2022	3:00 PM-6:00 PM	Solve industry-oriented problems
10	08.10.2022	3:00 PM-6:00 PM	Coding and implementation of project solutions in teams
11	10.10.2022	3:00 PM-6:00 PM	Testing, debugging, and refining project solutions
12	11.10.2022	4:00 PM-6:00 PM	Preparing and delivering professional presentations of technical solutions
13	12.10.2022	5:00 PM-6:00 PM	Assessment

Aditya Narayan Das

(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:21.09.2022

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Mastering Technical Skills through Guided Problem Solving" Starting from 27.09. 2022.Interested students must register on or before 24.09.2022. The course details are as follows:

- Course name: Mastering Technical Skills through Guided Problem Solving
- Instructor name: Aditya Narayan Das
- Contact: 9439177066

Principal
21/09/22

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Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Date:26.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: <u>Number of Students Enrolled for the Add-on Course on "Mastering Technical Skills through Guided Problem Solving".</u>

Respected Sir,

We are going to start course on " Mastering Technical Skills through Guided Problem Solving " from 27.09.2022 and a total of 75 Students have enrolled for this course. This is for your kind information.

Aditya Narayan Das

(Course Instructor)

HOD, (CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:12.10.2022

Verilog Training
ASSESSMENT

10/10

Name Of the Student: Debayyoti Sahu

Regd No: 2201289067

All Questions Compulsory

Q1: What is Verilog used for?
A) Hardware Description Language (HDL) for designing digital circuits
B) Web development
C) Image editing
D) Word processing

Q2: What is the main purpose of an HDL like Verilog?
A) To model and simulate electronic circuit
B) To create spreadsheets
C) To design user interfaces
D) To write essays

Q3: Which of the following is a data type in Verilog?
A) reg B) floa C) string D) double

Q4: What is the role of the "always" block in Verilog?
A) Defines sequential or combinational logi
B) Terminates the program
C) Runs simulations indefinitel
D) Changes the data type of a variable

Q5: What does the "module" keyword define in Verilog?
A) A design unit in Verilog
B) A function in Verilog
C) A memory storage device
D) A comment block

Q6: What does the "initial" block do in Verilog?
A) Runs once at the beginning of a simulation
B) Runs continuously
C) Generates random numbers
D) Defines new data types

Q7: What is the significance of the "assign" statement in Verilog?
A) Used to assign values in combinational circuits
B) Used to create loops
C) Used for memory allocation
D) Used to delete variables

Q8: Which operator is used for bitwise AND in Verilog?
A) & B) | C) ^ D) ~

Q9: What is the purpose of a "testbench" in Verilog?
A) To simulate and verify the functionality of a design
B) To generate physical circuits
C) To store data permanently
D) To replace modules automatically

Q10: What is the significance of "posedge" in Verilog?
A) It detects a positive edge of a clock signal
B) It defines a new module
C) It executes a function call
D) It initializes memory

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Aditya Narayan Biswal **Month/Year:** Sept. 2022

Subject Code: **Branch:**

Subject: Technical Skills.

Sl. No	REGD NO	NAME	27/09	28/09	29/09	01/10	03/10	04/10	05/10	06/10	07/10	08/10
1	1901289453	PRATIK KUMAR	1	2	3	4	5	6	7	8	9	10
2	1901289454	PRIYANKA BEHERA	1	X	2	3	4	5	6	7	8	9
3	1901289455	RACHITA RITALI	1	X	2	3	4	5	6	7	8	9
4	1901289456	RAMESH AGHARIA	1	2	3	X	4	6	7	8	9	10
5	1901289457	RASMITA MALLIK	1	2	3	4	5	6	7	8	9	10
6	1901289458	SACHIDANANDA SAHOO	1	2	3	4	5	6	7	8	9	10
7	1901289453	PRATIK KUMAR	1	X	2	3	4	5	6	7	8	9
8	1901289454	PRIYANKA BEHERA	1	2	3	4	5	6	7	8	9	10
9	1901289455	RACHITA RITALI	X	1	2	3	4	5	6	7	8	9
10	1901289259	LIPSITA SAHU	1	2	3	4	5	6	7	8	9	10
11	1901289269	SUBHAM DHALSAMANTA	1	2	3	4	5	6	7	8	9	10
12	1901289411	ABHAYA KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
13	1901289412	ABHIJEET MOHANTY	X	1	2	3	4	5	6	7	8	9
14	1901289413	AKASH MANDAL	1	2	3	X	4	5	6	7	X	8
15	1901289016	DEEPAK SAHOO	1	2	3	4	5	6	7	8	9	10
16	1901289084	ROSHAN BISWAL	1	2	3	4	5	6	7	8	X	9
17	1901289131	SARFRAZ HUSSAIN	X	1	2	3	4	5	6	7	8	9
18	1901289016	DEEPAK SAHOO	1	2	3	4	5	6	7	8	9	10
19	1701289418	GYANENDRA SAHU	1	2	3	4	5	6	7	8	9	10
20	1701289419	LAXMI HEMBROM	1	2	3	4	5	6	7	8	9	10
21	1701289420	MOHAMMED INZAMAM UL HAQUE	1	X	2	3	4	5	6	7	8	9
22	1701289421	PRIYAMJIT MOHAPATRA	1	2	3	4	5	6	7	8	9	10
23	1701289422	SATYARANJAN SAHOO	1	2	3	4	5	6	7	8	9	10
24	1701289423	SOUMYA RANJAN ACHARYA	1	2	3	4	5	6	7	8	9	10
25	1701289011	DWIBENDU KUMAR MOHAKUD	1	2	3	4	5	6	X	7	8	9
26	1701289013	BISWAJIT BISWAL	1	X	2	3	4	5	6	X	7	8
27	1701289030	T VINAYSAGAR KUMAR	1	2	3	4	5	6	7	8	9	10
28	1701289042	BIBEKANANDA MOHANTY	1	2	3	4	5	6	7	8	9	10
29	1701289047	RAJESH PARIDA	1	2	3	4	5	6	7	8	9	10
30	1701289050	ADITYA NARAYAN BISWAL	1	X	2	3	4	5	6	7	8	9
35	1701289108	SATISH RATH	1	2	3	4	5	6	7	8	9	10
36	1701289109	SWAYAMBHU SANJIBANI PAL	1	2	3	4	5	6	7	8	9	10

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37	1701289144	SHIVNARAYAN PATTNAYAK	1	X	2	3	4	5	6	7	8	9	
38	1701289152	SUDHANSHU SEKHAR DASH	1	2	3	4	5	X	6	7	8	9	
39	1701289160	DEBASISH SWAIN	1	X	2	3	4	5	6	7	8	9	
40	1701289179	SOUMYA PRAKASH KHANDAYATRAY	1	2	3	4	5	X	6	7	8	9	
41	1701289185	LIPSA MOHAPATRA	1	2	3	4	5	6	7	8	8	9	
42	1701289205	SACHIN KUMAR YADAV	1	2	3	4	5	6	X	7	8	9	
43	1701289301	ADITYA PRASAD NAYAK	1	2	3	4	5	6	A	7	8	9	
44	1701289302	ANKIT TOPPO	1	2	3	4	5	6	A	7	8	9	
45	1701289303	ARPITA CHHAYA	1	2	3	4	5	6	7	8	9	10	
46	1701289304	BAIJAYANTI JENA	1	X	2	3	4	5	6	7	8	9	
47	1701289305	BISHAL KESHARI	1	2	3	4	5	6	7	8	9	10	
48	1701289425	DURGA PRASAD CHOUDHURY	1	2	3	4	5	6	7	8	9	10	
49	1701289426	GANESH PRASAD SAHOO	1	2	X	3	4	5	6	7	8	10	
50	1701289427	JAGNYASU NARAYAN SATHUA	1	2	3	4	5	6	7	8	9	10	
51	1701289428	MIR DANISH ALI	1	2	3	4	X	5	6	7	8	9	
52	1701289429	PRABHAT NATH	1	2	3	4	5	6	7	8	9	10	
53	1701289430	PRASENJEET SETHY	1	2	X	3	4	5	6	7	8	9	
54	1701289431	PURNACHANDRA BEHERA	1	2	3	4	5	6	7	8	9	10	
55	1701289432	RAJENDRA DANDA	1	2	3	4	5	6	7	8	9	10	
56	1701289433	RITIKA SINGH	1	2	3	4	5	6	7	8	9	10	
57	1701289434	SANTANU KUMAR DAS	X	1	2	3	4	5	6	7	8	9	
58	1701289435	SMRUTI RANJAN PATEL	1	2	3	4	5	X	6	7	8	9	
59	1701289436	SONALI PRADHAN	1	2	3	4	5	6	A	7	8	9	
60	1701289437	SONAM TOPPO	1	X	2	3	4	5	6	7	X	8	
61	1701289438	SOUBHAGYA SAHU	1	2	3	4	5	6	7	8	X	9	
62	1701289439	SUBHAM MISHRA	1	2	3	4	5	6	7	8	9	10	
63	1701289440	SUDEV RANJAN MALLICK	1	X	2	3	4	X	5	6	7	8	
64	1701289441	SUMAN KUMAR	1	2	3	4	5	6	7	8	9	10	
65	1701289442	SUNIL RANJAN SAHOO	1	2	3	4	5	6	7	8	X	9	
66	1701289008	ANIKET PANDIT	1	2	3	4	5	6	7	8	9	10	
67	1701289010	PRITAM PAUL	1	X	2	3	4	5	6	7	8	9	
68	1701289012	FARHAT PERWEEN	1	2	3	4	5	6	7	8	9	10	
69	1701289020	CHIRANJIB MOHAPATRA	1	2	3	4	5	6	7	8	9	10	
70	1701289038	ROHIT KUMAR PRAJAPATI	X	1	2	3	4	5	6	7	8	9	
71	1701289040	PRUTHWIRAJ PATTANAYAK	1	2	3	4	5	6	7	8	9	10	
72	1701289045	SOURAV DASH	1	2	3	4	5	6	7	8	9	10	
73	1701289065	SOUMYA JYOTI SAHOO	1	2	3	4	5	6	7	8	9	10	
74	1701289066	BISWA RANJAN ROUT	1	X	2	3	4	5	6	7	8	9	
75	1701289067	DEBAJYOTI SAHU	1	2	3	4	5	6	7	8	9	10	

Signature of Teacher

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Adityanarayan Sir

Month/Year: Sept. 2022

Subject Code:

Branch:

Subject: Technical Skill

Sl. No	REGD NO	NAME	10/10	11/10	12/10							
1	1901289453	PRATIK KUMAR	11	X	12							
2	1901289454	PRIYANKA BEHERA	10	11	12							
3	1901289455	RACHITA RITALI	10	11	12							
4	1901289456	RAMESH AGHARIA	11	12	13							
5	1901289457	RASMITA MALLIK	11	12	13							
6	1901289458	SACHIDANANDA SAHOO	11	12	13							
7	1901289453	PRATIK KUMAR	10	11	12							
8	1901289454	PRIYANKA BEHERA	11	12	13							
9	1901289455	RACHITA RITALI	10	11	12							
10	1901289259	LIPSITA SAHU	11	12	13							
11	1901289269	SUBHAM DHALSAMANTA	11	12	13							
12	1901289411	ABHAYA KUMAR NAYAK	11	12	13							
13	1901289412	ABHIJEET MOHANTY	10	11	12							
14	1901289413	AKASH MANDAL	9	X	10							
15	1901289016	DEEPAK SAHOO	9	10	11							
16	1901289084	ROSHAN BISWAL	10	11	12							
17	1901289131	SARFRAZ HUSSAIN	10	11	12							
18	1901289016	DEEPAK SAHOO	10	11	12							
19	1701289418	GYANENDRA SAHU	11	12	13							
20	1701289419	LAXMI HEMBROM	11	12	13							
21	1701289420	MOHAMMED INZAMAM UL HAQUE	10	X	11							
22	1701289421	PRIYAMJIT MOHAPATRA	11	12	13							
23	1701289422	SATYARANJAN SAHOO	11	12	13							
24	1701289423	SOUMYA RANJAN ACHARYA	11	12	13							
25	1701289011	DWIBENDU KUMAR MOHAKUD	10	11	12							
26	1701289013	BISWAJIT BISWAL	9	10	11							
27	1701289030	T VINAYSAGAR KUMAR	11	12	13							
28	1701289042	BIBEKANANDA MOHANTY	11	12	13							
29	1701289047	RAJESH PARIDA	11	12	13							
30	1701289050	ADITYA NARAYAN BISWAL	10	11	12							
35	1701289108	SATISH RATH	11	12	X							
36	1701289109	SWAYAMBHU SANJIBANI PAL	11	12	13							

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37	1701289144	SHIVNARAYAN PATTNAYAK	10	11	12								
38	1701289152	SUDHANSHU SEKHAR DASH	10	11	12								
39	1701289160	DEBASISH SWAIN	10	11	12								
40	1701289179	SOUMYA PRAKASH KHANDAYATRAY	10	11	12								
41	1701289185	LIPSA MOHAPATRA	10	11	12								
42	1701289205	SACHIN KUMAR YADAV	10	11	12								
43	1701289301	ADITYA PRASAD NAYAK	10	11	12								
44	1701289302	ANKIT TOPPO	10	11	12								
45	1701289303	ARPITA CHHAYA	11	12	13								
46	1701289304	BAIJAYANTI JENA	10	11	12								
47	1701289305	BISHAL KESHARI	11	12	13								
48	1701289425	DURGA PRASAD CHOUDHURY	11	X	12								
49	1701289426	GANESH PRASAD SAHOO	11	12	13								
50	1701289427	JAGNYASU NARAYAN SATHUA	11	12	13								
51	1701289428	MIR DANISH ALI	10	11	12								
52	1701289429	PRABHAT NATH	11	12	13								
53	1701289430	PRASENJEET SETHY	10	11	12								
54	1701289431	PURNACHANDRA BEHERA	11	12	13								
55	1701289432	RAJENDRA DANDA	10	11	12								
56	1701289433	RITIKA SINGH	X	11	12								
57	1701289434	SANTANU KUMAR DAS	11	12	13								
58	1701289435	SMRUTI RANJAN PATEL	11	12	13								
59	1701289436	SONALI PRADHAN	10	X	11								
60	1701289437	SONAM TOPPO	10	11	12								
61	1701289438	SOUBHAGYA SAHU	10	11	12								
62	1701289439	SUBHAM MISHRA	9	10	11								
63	1701289440	SUDEV RANJAN MALLICK	10	11	12								
64	1701289441	SUMAN KUMAR	11	12	13								
65	1701289442	SUNIL RANJAN SAHOO	9	10	11								
66	1701289008	ANIKET PANDIT	11	12	13								
67	1701289010	PRITAM PAUL	9	10	11								
68	1701289012	FARHAT PERWEEN	11	12	13								
69	1701289020	CHIRANJIB MOHAPATRA	10	11	12								
70	1701289038	ROHIT KUMAR PRAJAPATI	10	11	12								
71	1701289040	PRUTHWIRAJ PATTANAYAK	11	12	13								
72	1701289045	SOURAV DASH	11	12	13								
73	1701289065	SOUMYA JYOTI SAHOO	11	12	13								
74	1701289066	BISWA RANJAN ROUT	10	11	12								
75	1701289067	DEBAJYOTI SAHU	11	12	13								

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:03.11.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering English Communication through Guided Practice" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 02.11.2022, we are planning to start a course "Mastering English Communication through Guided Practice" from 09.11.2022. The objective of the course is to provide foundational and practical knowledge of English Communication to our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, ENGLISH)

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SYLLABUS

Mastering English Communication through Guided Practice

Total Lecture Periods: 36 hrs

Course Objectives:

This course aims to enhance students' proficiency in English Communication by using guided practical exercises. Students will learn to improve their spoken, written, and interpersonal communication skills, gain confidence, and build a strong foundation in professional and academic communication.

MODULE-I: Fundamentals of English Communication [9 periods]

- **Topics:** Grammar basics, sentence structure, vocabulary building, and pronunciation.

MODULE-II: Written Communication Skills [9 periods]

- **Topics:** Essay writing, email etiquette, formal and informal letter writing, and report preparation.

MODULE-III: Verbal Communication Skills [9 periods]

- **Topics:** Group discussions, public speaking, effective listening, and telephone etiquette.

MODULE-IV: Advanced Communication and Professional Skills [9 periods]

- **Topics:** Presentation skills, interview preparation, negotiation techniques, and workplace communication.

Course Outcomes: After completion of the course, the students will be able to:
CO1: Demonstrate a solid understanding of English grammar and vocabulary.
CO2: Write effective and structured formal documents.
CO3: Communicate fluently and confidently in English.
CO4: Deliver impactful presentations and speeches.
CO5: Apply communication skills to real-world scenarios, such as interviews and

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meetings.
CO6: Collaborate effectively with peers using professional communication techniques

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. High School English Grammar & Composition by Wren & Martin
2. The Elements of Style by Strunk and White

Dr. Sidharth Mohapatra

(Course Instructor)

(HOD, ENGLISH)

HOD

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SCHEDULE

Mastering English Communication through Guided Practice

Sl No	Date	Time	Course Content
1	9/11/2022	3:00PM-6:00PM	Overview of essential grammar rules, sentence structure, and common usage errors.
2	10/11/2022	3:00PM-6:00PM	Techniques for expanding vocabulary.
3	11/11/2022	3:00PM-6:00PM	Structuring essays, crafting formal letters, and mastering email etiquette.
4	12/11/2022	3:00PM-6:00PM	Writing informal letters and preparing professional reports.
5	14/11/2022	3:00PM-6:00PM	Developing group discussion strategies and enhancing public speaking confidence.
6	15/11/2022	3:00PM-6:00PM	Techniques for active listening and.
7	17/11/2022	3:00PM-6:00PM	Preparing and delivering effective presentations with clarity and impact.
8	18/11/2022	3:00PM-6:00PM	Building interview readiness and mastering negotiation strategies.
9	19/11/2022	3:00PM-6:00PM	Understanding workplace communication dynamics and
10	21/11/2022	3:00PM-6:00PM	Improving pronunciation accuracy
11	22/11/2022	3:00PM-6:00PM	Maintaining professionalism in phone communication
12	23/11/2022	4:00PM-6:00PM	Refining professional interaction skills.
13	24/11/2022	5:00PM-6:00PM	Assessment

Dr. Sidharth Mohapatra

(Course Instructor)

(HOD, ENGLISH)

HOD

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:04.09.2022

This is to inform all B. Tech students that the department of ENGLISH will start an add-on course on " English Communication " starting from 09.11. 2022.Interested students must register on or before 07.11.2022. The course details are as follows:

- Course name: Mastering English Communication through Guided Practice
- Instructor name: Dr. Sidharth Mohapatra
- Concerned person for Registration. Sidharth Mohapatra

Principal

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Bhubaneswar-751024

Date: 07.11.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: List of Students Enrolled for the Add-on Course on "Mastering English Communication through Guided Practice".

Respected Sir,

We are going to start course on " Mastering English Communication through Guided Practice " from 09.11.2022 and a total of 75 Students have enrolled for this course. This is for your kind information.

Dr. Sidharth Mohapatra

(Course Instructor)

(HOD, ENGLISH)
HOD

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:24.11.2022

English Communication
ASSESSMENT

Name Of the Student: ANKITSINHA
Regd No: 1901289053

10/10

All Questions Compulsory

Q1: What is the purpose of communication?
A) Expressing ideas and exchanging information B) Speaking without listening
C) Avoiding conversations D) Only writing messages

Q2: Which of the following is an essential component of effective communication?
A) Clarity B) Speaking too fast C) Ignoring grammar D) Avoiding eye contact

Q3: What is an example of non-verbal communication?
A) Writing an email B) Making a phone call
C) Using body language D) Sending a text message

Q4: What does active listening involve?
A) Paying full attention and responding appropriately B) Ignoring the speaker
C) Interrupting frequently D) Focusing only on personal thoughts

Q5: Which of these improves spoken English skills?
A) Practicing regularly B) Avoiding conversations
C) Speaking only in a native language D) Ignoring pronunciation

Q6: What is an important part of professional email writing?
A) Using proper greetings and a clear messag B) Using slang words
C) Avoiding subject lines D) Writing in all capital letters

Q7: Which of the following is an example of formal communication?
A) Chatting with friend B) Writing a business report
C) Sharing memes D) Using abbreviations in work emails

Q8: Why is good English communication important in the workplace?
A) It improves teamwork and clarity B) It confuses colleagues
C) It reduces work efficiency D) It is unnecessary in a global market

Q9: Which of these helps improve vocabulary?
A) Reading books and articles B) Watching random videos
C) Avoiding new words D) Only using simple words

Q10: What is a key element of public speaking?
A) Confidence and clear speech B) Speaking too softly
C) Reading only from notes D) Avoiding eye contact

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sidhartha S. Nayak **Month/Year:** NOV. 2020

Subject Code: **Branch:**

Subject: Mastering English Command

Sl. No	REGD NO	NAME	09/11	10/11	11/11	12/11	14/11	15/11	17/11	18/11	19/11	21/11
1	1901289053	ANKIT SINHA	1	2	3	4	5	6	X	7	8	9
2	1901289054	ANKITA DASH	1	X	2	3	4	5	6	7	8	9
3	1901289055	ANKITA NAYAK	X	1	2	3	4	X	5	6	7	8
4	1901289056	ANKUR JAYASINGH	1	2	3	X	4	5	6	7	X	8
5	1901289057	ANTARYAMI MOHARANA	1	2	3	4	5	6	7	8	9	10
6	1901289119	MD AAMIR ALAM	1	2	3	4	5	X	6	7	8	9
7	1901289120	MD. SAJID ALI	1	2	3	4	5	6	7	8	9	10
8	1901289060	ANURAG SATAPATHY	1	2	3	4	5	6	7	8	9	10
9	1921289026	APOORVA NAYAK	1	X	2	3	4	5	6	7	8	9
10	1901289132	PRANAY RAJ	1	2	3	4	5	6	7	X	8	9
11	1901289133	PRATIGNYA PRODAR	1	2	3	4	5	6	7	8	9	10
12	1901289062	ARPITA NAYAK	1	2	3	4	5	X	6	7	8	9
13	1901289063	ARYA ABINASH	1	2	X	3	4	5	6	7	8	X
14	1901289064	ASHUTOSH BEHERA	1	2	3	4	X	5	6	7	X	8
15	1901289065	ASHUTOSH MOHAPATRA	1	2	3	4	5	X	6	7	8	9
16	1901289142	RAHUL ROUTRAY	1	2	3	4	5	6	X	7	8	9
17	1901289143	RAJAT RAJ	1	2	3	4	5	6	7	8	9	10
18	1901289068	ASUTOSH BARAL	1	X	2	3	4	5	6	7	8	8
19	1901289069	ASUTOSH SAHOO	1	2	3	4	X	5	6	7	8	9
20	1901289070	AVIRUP DE	1	2	3	4	5	6	7	X	8	9
21	1901289071	AYASKANTA PARIDA	1	2	3	4	5	6	7	8	9	10
22	1901289161	SHABAZ ALI	1	2	3	X	4	5	6	7	8	9
23	1901289162	SHAIKH ZEESHAN HUSSAIN	1	2	3	4	5	X	6	7	8	9
24	1901289074	AYUSH MAHAPATRA	1	2	3	4	X	5	6	7	8	9
25	1901289075	AYUSI MISHRA	1	2	3	4	5	6	X	7	8	X
26	1901289076	BADAL KUMAR BEHERA	1	2	3	4	5	6	7	8	8	9
27	1901289204	BANITA DAS	1	2	X	3	4	5	6	7	8	9
28	1901289077	BANSHITA MISHRA	1	2	3	4	5	6	7	8	8	9
29	1901289078	BARSHA RANI NAYAK	1	2	3	4	5	6	7	8	X	9
30	1901289079	BASUNDHARA MOHANTY	1	2	3	X	4	5	6	7	7	8
35	1901289080	BHANU PRATAP DAS	1	2	X	3	4	5	6	7	8	9
36	1901289081	BINAYAK MISHRA	1	2	3	4	5	X	6	7	8	X
37	1901289082	BISHAL GHOSH	1	2	3	4	5	6	7	8	9	10
38	1901289083	BISWAJIT PRADHAN	1	2	3	4	5	6	7	8	9	10
39	1921289027	BONGU VAIJAYANTHI	1	2	3	X	4	5	6	7	8	9

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40	1901289084	CHIDANANDA PARIDA	1	2	3	4	5	X	6	7	8	9
41	1901289085	CHINMAYA NAYAK	1	2	3	X	4	5	6	7	8	9
42	1901289086	CHINMAYA SATPATHY	1	2	3	4	5	6	7	8	9	10
43	1901289087	CHINMAYEE PANI	1	2	3	4	5	6	7	8	9	10
44	1921289028	CHOUDHURI SUBHANKAR DAS	1	2	X	3	4	5	6	7	8	9
45	1901289088	DEBA JYOTI PILA	X	1	2	3	4	5	6	7	X	8
46	1901289089	DEBABRATA PATI	1	2	3	4	5	6	7	8	9	10
47	1901289090	DEBADUTTA DEY	1	2	3	4	5	6	7	8	9	X
48	1901289091	DEBADUTTA PRADHAN	X	1	2	3	4	5	6	7	8	9
49	1901289092	DEBASHISH MAHATO	1	2	3	4	5	6	7	8	9	10
50	1921289029	DEBIPRASAD DAS	1	2	3	4	5	6	7	8	9	10
51	1901289093	DEBIPRASANNA PATTANAIK	1	2	3	4	X	5	6	7	8	9
52	1901289094	DEEPANKAR MALI	1	2	3	4	5	6	7	8	X	9
53	1901289095	DHARASHREE PATTANAYAK	1	2	3	4	5	6	7	8	9	10
54	1901289096	DHARITRI DAS	1	2	3	4	5	6	7	X	8	09
55	1901289097	DIBYA JYOTI PATRA	1	2	3	4	5	X	6	7	8	09
56	1901289098	DIBYAJIT PANDA	1	2	3	4	5	6	7	8	9	10
57	1901289099	DIBYAJYOTI PARIDA	1	X	2	3	4	5	6	7	8	9
58	1901289140	PRITISHA DAS	1	2	3	4	5	6	7	8	9	10
59	1901289141	PRIYABRATA JENA	1	2	3	4	5	6	7	8	9	10
60	1901289142	RAHUL ROUTRAY	1	2	3	4	X	5	6	X	7	8
61	1901289143	RAJAT RAJ	1	2	3	X	4	5	6	7	8	9
62	1901289144	RAJESH MISHRA	1	2	3	4	5	6	7	8	9	10
63	1901289145	RAJSUKH MOHANTY	1	X	2	3	4	5	6	7	X	8
64	1901289146	RIDHIMA RANJINI	1	2	3	4	5	6	7	8	9	10
65	1901289147	RISHAB RATH	1	2	3	4	5	6	7	8	9	10
66	1901289148	RITIK KUMAR SAHOO	1	2	3	4	5	6	7	8	9	10
67	1901289149	RUDRAKSH SHARMA	1	2	3	4	5	6	7	X	8	9
68	1901289150	SAGAR PATTANAIK	1	2	3	4	5	6	7	8	9	10
69	1901289151	SAI ANWESHA JENA	1	2	3	4	5	6	7	8	9	10
70	1901289152	SAI SATISH PILLA	1	2	3	4	5	X	6	7	8	9
71	1901289153	SAMBIT BEHERA	1	2	3	4	5	6	7	8	9	10
72	1901289154	SAMBIT KUMAR NAYAK	1	2	3	X	4	5	6	7	8	9
73	1901289155	SAMIKHYA MISHRA	1	2	3	4	5	6	7	X	8	9
74	1901289156	SANTOSH KUMAR DALAI	1	2	3	4	5	6	7	8	X	9
75	1901289157	SARMISTHA DAS	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Siddharth. S. Mohapatra **Month/Year:** NOV-2022

Subject Code: **Branch:**

Subject: Mastering English Communication

Sl. No	REGD NO	NAME	22/11	23/11	24/11						
1	1901289053	ANKIT SINHA	10	11	X						
2	1901289054	ANKITA DASH	10	11	12						
3	1901289055	ANKITA NAYAK	9	10	11						
4	1901289056	ANKUR JAYASINGH	9	10	11						
5	1901289057	ANTARYAMI MOHARANA	X	11	12						
6	1901289119	MD AAMIR ALAM	10	11	12						
7	1901289120	MD. SAJID ALI	11	12	X						
8	1901289060	ANURAG SATAPATHY	X	11	12						
9	1921289026	APOORVA NAYAK	10	11	12						
10	1901289132	PRANAY RAJ	10	11	12						
11	1901289133	PRATIGNYA PRODAR	11	12	13						
12	1901289062	ARPITA NAYAK	10	11	12						
13	1901289063	ARYA ABINASH	9	10	11						
14	1901289064	ASHUTOSH BEHERA	9	10	X						
15	1901289065	ASHUTOSH MOHAPATRA	10	X	11						
16	1901289142	RAHUL ROUTRAY	10	11	12						
17	1901289143	RAJAT RAJ	11	12	13						
18	1901289068	ASUTOSH BARAL	09	10	11						
19	1901289069	ASUTOSH SAHOO	10	11	12						
20	1901289070	AVIRUP DE	10	11	12						
21	1901289071	AYASKANTA PARIDA	11	X	12						
22	1901289161	SHABAZ ALI	10	11	12						
23	1901289162	SHAIKH ZEESHAN HUSSAIN	10	11	12						
24	1901289074	AYUSH MAHAPATRA	10	11	12						
25	1901289075	AYUSI MISHRA	9	10	X						
26	1901289076	BADAL KUMAR BEHERA	10	11	12						
27	1901289204	BANITA DAS	10	11	12						
28	1901289077	BANSHITA MISHRA	10	11	12						
29	1901289078	BARSHA RANI NAYAK	10	11	12						
30	1901289079	BASUNDHARA MOHANTY	09	10	11						
35	1901289080	BHANU PRATAP DAS	10	11	12						
36	1901289081	BINAYAK MISHRA	09	10	11						
37	1901289082	BISHAL GHOSH	11	12	13						
38	1901289083	BISWAJIT PRADHAN	11	12	13						
39	1921289027	BONGU VAIJAYANTHI	10	11	12						

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40	1901289084	CHIDANANDA PARIDA	10	11	X								
41	1901289085	CHINMAYA NAYAK	10	11	12								
42	1901289086	CHINMAYA SATPATHY	11	X	12								
43	1901289087	CHINMAYEE PANI	11	12	13								
44	1921289028	CHOUDHURI SUBHANKAR DAS	10	10	12								
45	1901289088	DEBA JYOTI PILA	9	10	X								
46	1901289089	DEBABRATA PATI	11	12	13								
47	1901289090	DEBADUTTA DEY	10	11	12								
48	1901289091	DEBADUTTA PRADHAN	10	11	12								
49	1901289092	DEBASHISH MAHATO	11	12	13								
50	1921289029	DEBIPRASAD DAS	11	X	12								
51	1901289093	DEBIPRASANNA PATTANAIK	10	11	12								
52	1901289094	DEEPANKAR MALI	10	11	X								
53	1901289095	DHARASHREE PATTANAYAK	11	12	13								
54	1901289096	DHARITRI DAS	10	11	12								
55	1901289097	DIBYA JYOTI PATRA	10	11	12								
56	1901289098	DIBYAJIT PANDA	11	12	13								
57	1901289099	DIBYAJYOTI PARIDA	10	11	12								
58	1901289140	PRITISHA DAS	11	12	13								
59	1901289141	PRIYABRATA JENA	11	12	X								
60	1901289142	RAHUL ROUTRAY	09	10	11								
61	1901289143	RAJAT RAJ	10	11	12								
62	1901289144	RAJESH MISHRA	11	12	13								
63	1901289145	RAJSUKH MOHANTY	09	10	11								
64	1901289146	RIDHIMA RANJINI	11	12	13								
65	1901289147	RISHAB RATH	11	12	13								
66	1901289148	RITIK KUMAR SAHOO	11	12	13								
67	1901289149	RUDRAKSH SHARMA	10	11	12								
68	1901289150	SAGAR PATTANAIK	11	12	13								
69	1901289151	SAI ANWESHA JENA	11	12	13								
70	1901289152	SAI SATISH PILLA	10	11	12								
71	1901289153	SAMBIT BEHERA	11	12	13								
72	1901289154	SAMBIT KUMAR NAYAK	10	11	12								
73	1901289155	SAMIKHYA MISHRA	10	11	12								
74	1901289156	SANTOSH KUMAR DALAI	10	11	12								
75	1901289157	SARMISTHA DAS	11	12	13								

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 20.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering Business Analytics through Guided Problem Solving" for B.Tech & MBA students.

Respected Sir,

As per our departmental meeting held on 19.09.2022, we are planning to start a course on "Mastering Business Analytics through Guided Problem Solving" from 27.09.2022. The objective of the course is to provide foundational and practical knowledge of Key Business Analytics Topics for our students.

The course duration and schedule are attached for your perusal.

Thanking You

(HOD, MBA)

HOD
MBA

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Business Analytics through Guided Problem Solving

Total Lecture Periods: 36hrs

Course Objectives:

This course aims to enhance students' proficiency in Business Analytics by using guided problem-solving exercises. Students will learn to analyze data, generate insights, and apply analytics techniques to solve real-world business problems, gaining hands-on experience and building a strong foundation in this field.

MODULE-I: Introduction to Business Analytics [9 periods]

- **Topics:** Overview of business analytics, role of analytics in decision-making, introduction to tools and technologies (Excel, Python, etc.).

MODULE-II: Data Preparation and Visualization [9 periods]

- **Topics:** Data cleaning, preprocessing, exploratory data analysis, and creating visualizations using tools like Power BI, Tableau, or Matplotlib.

MODULE-III: Statistical and Predictive Analysis [9 periods]

- **Topics:** Descriptive and inferential statistics, regression analysis, and predictive modeling techniques.

MODULE-IV: Advanced Topics in Business Analytics [9 periods]

- **Topics:** Machine learning applications in analytics, optimization techniques, case studies, and industry applications.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand the fundamentals of business analytics and its applications.
CO2: Prepare and clean data for analysis effectively.
CO3: Create insightful visualizations to aid in decision-making.

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Business Analytics through Guided Problem Solving

Sl No	Date	Time	Course Content
1	27.09.2022	3:00 PM-6:00 PM	Introduction to Business Analytics
2	28.09. 2022	3:00 PM-6:00 PM	Analytics Tools and Technologies
3	29.09. 2022	3:00 PM-6:00 PM	Data Cleaning and Preprocessing
4	01.10. 2022	3:00 PM-6:00 PM	Exploratory Data Analysis (EDA)
5	03.10. 2022	3:00 PM-6:00 PM	Data Visualization Techniques
6	04.10. 2022	3:00 PM-6:00 PM	Statistical Analysis Fundamentals
7	05.10. 2022	3:00 PM-6:00 PM	Predictive Modeling
8	07.10. 2022	3:00 PM-6:00 PM	Regression Analysis
9	08.10. 2022	3:00 PM-6:00 PM	Machine Learning Application
10	10.10. 2022	3:00 PM-6:00 PM	Machine Learning in Business Analytics
11	11.10. 2022	3:00 PM-6:00 PM	Case Studies and Industry Applications
12	12.10. 2022	4:00 PM-6:00 PM	Case Studies and Industry Applications
13	13.10. 2022	5:00 PM-6:00 PM	Assessment

N. Begum

Dr. Nargis Begum

(Course Instructor)

N. Begum

(HOD, MBA)

HOD
MBA

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:22.09.2022

This is to inform all B. Tech & MBA that the department of MBA will start an add on course on "Business Analytics" starting from 27.09.2022. Interested students must register on or before 25.09.2022. The course details are as follows.

- Course name: Mastering Business Analytics through Guided Problem Solving
- Instructor name: Dr. Nargis Begum
- Concerned person for Registration: Dr. Nargis Begum

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 26.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Mastering Business Analytics through Guided Problem Solving

Respected Sir,

We are going to start course on " Mastering Business Analytics through Guided Problem Solving " from 27.09.2022 and a total of 37 Students have enrolled for this course. This is for your kind information.

N. Begum

Dr. Nargis Begum

(Course Instructor)

N. Begum

(HOD, MBA)

HOD
MBA

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:13.10.2022

Business Analytics
ASSESSMENT

Name Of the Student: Deepikha Dash
Regd No: 2105289034

All Questions Compulsory

Q1: What is Business Analytics primarily used for?
A) Making data-driven decisions
B) Replacing managers
C) Avoiding financial reports
D) Random guessing

Q2: Which of the following is a type of Business Analytics?
A) Descriptive Analytics
B) Fictional Analytics
C) Random Analytics
D) Non-Analytical Thinking

Q3: What is the role of data visualization in Business Analytics?
A) To present data in a clear and understandable format
B) To make data harder to understand
C) To remove data from reports
D) To ignore data trends

Q4: Which tool is commonly used for Business Analytics?
A) Tableau B) Photoshop C) Blender D) Notepad

Q5: What is Predictive Analytics?
A) Analyzing past data to predict future trends
B) Avoiding past data
C) Guessing without data
D) Ignoring data models

Q6: What does KPI stand for in Business Analytics?
A) Key Performance Indicator
B) Knowledge Processing Information
C) Key Pricing Index
D) Known Profit Insight

Q7: What is the function of a dashboard in Business Analytics?
A) To display real-time business metrics
B) To hide important data
C) To replace managers
D) To store only personal data

Q8: Which of the following is NOT a Business Analytics tool?
A) SQL B) Excel C) AutoCAD D) Power BI

Q9: What is the significance of Big Data in Business Analytics?
A) It allows for better decision-making with large datasets
B) It makes data analysis harder
C) It only applies to small businesses
D) It is unrelated to analytics

Q10: Which statistical method is commonly used in Business Analytics?
A) Regression Analysi
B) Handwriting Analysis
C) Artistic Drawing
D) Cooking Techniques

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: N. Begam.

Month/Year: Sept - 2022

Subject Code:

Branch:

Subject: Business Analytics

Sl. No	REGD NO	NAME	27/09	28/09	29/09	01/10	03/10	04/10	05/10	07/10	08/10	10/10
1	1901289028	ABHIJIT NANDA	1	2	3	4	5	6	7	8	9	10
2	1901289029	ABHILASH MOHANTY	1	2	3	4	5	6	7	8	9	10
3	1901289030	ABHINAV GUPTA	1	X	3	4	5	6	7	8	9	10
4	1901289031	ABHISEK AICH	1	2	3	4	5	6	7	X	8	9
5	1901289032	ABHISHEK KUMAR	1	2	3	4	5	6	7	8	9	10
6	1901289033	ACHYUTA PRASAD LENKA	1	2	3	X	4	5	6	7	8	9
7	1901289034	ACOSMICA MISHRA	1	2	3	4	X	5	6	7	8	9
8	1901289035	ADARSH KUMAR	1	2	3	4	5	6	7	8	9	10
9	1901289036	ADITI MISHRA	1	X	X	2	3	4	5	6	7	8
10	1901289037	ADITYA RAJ	1	2	3	4	5	6	7	8	9	10
11	1901289038	ADYASHA TRIPATHY	1	2	3	X	4	5	6	7	8	9
12	1901289039	AKASH KUMAR PRADHAN	1	2	3	4	X	5	6	7	8	9
13	1901289040	AKASH KUMAR SAHOO	1	2	3	4	X	5	X	6	7	8
14	1901289041	AKASH KUMAR SINGH	1	2	3	4	5	X	6	7	8	9
15	1901289028	ABHIJIT NANDA	1	X	2	3	4	5	6	7	8	9
16	2106289023	RAHUL RAMAN BHOL	1	X	2	3	4	5	6	7	8	9
17	2106289024	RAJNI KUMARI LAGURI	1	2	3	4	X	5	6	7	8	9
18	2106289025	ROHAN KUMAR ACHARJYA	1	2	3	4	X	5	6	7	8	9
19	2106289026	RONAK JENA	1	2	3	4	5	X	6	7	8	9
20	2106289027	SAMEER PADHY	1	2	3	4	5	6	7	8	9	10
21	2106289028	SANGITA BEHERA	1	2	3	X	4	5	6	7	8	9
22	2106289029	SHRABANI KUMARI PANDA	1	2	3	4	X	5	6	7	8	9
23	2106289030	SIMRAN NAYAK	1	2	3	4	5	X	6	7	8	9
24	2106289031	SK HAMMAD ALI	1	2	3	4	5	6	7	8	9	10
25	2106289032	SMRUTI REKHA BESHRA	1	2	3	4	5	6	7	8	9	10
26	2106289033	SMRUTIREKHA SWAIN	1	2	3	X	4	5	6	7	8	9
27	2106289008	SOURAV PRASAD DAS	1	2	3	4	5	X	6	7	8	9
28	2106289009	SOVAN PANIGRAHI	1	2	X	3	4	5	6	7	8	9
29	2106289010	DEBABRATA FATHKAR	1	2	3	4	X	5	6	7	8	9
30	2106289011	DEBASHISH SAHU	1	2	3	4	X	5	6	7	8	9
35	2106289012	DEEPAK KUMAR DASH	1	X	2	3	4	5	6	7	8	9
36	2106289034	G ADITYA PRASAD PATRO	1	2	3	4	5	6	7	8	9	10
37	2106289035	GYANASWINEE NAYAK	1	2	3	4	5	6	7	8	9	10

N. Begam

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: N. Begum

Month/Year: Sept-2022

Subject Code:

Branch:

Subject: Business Analytics.

Sl. No	REGD NO	NAME	11/10	12/10	13/10							
1	1901289028	ABHIJIT NANDA	11	12	13							
2	1901289029	ABHILASH MOHANTY	11	12	X							
3	1901289030	ABHINAV GUPTA	11	12	X							
4	1901289031	ABHISEK AICH	10	11	12							
5	1901289032	ABHISHEK KUMAR	11	12	X							
6	1901289033	ACHYUTA PRASAD LENKA	10	11	12							
7	1901289034	ACOSMICA MISHRA	10	11	12							
8	1901289035	ADARSH KUMAR	11	12	13							
9	1901289036	ADITI MISHRA	9	10	11							
10	1901289037	ADITYA RAJ	11	12	X							
11	1901289038	ADYASHA TRIPATHY	10	11	12							
12	1901289039	AKASH KUMAR PRADHAN	10	11	12							
13	1901289040	AKASH KUMAR SAHOO	9	10	11							
14	1901289041	AKASH KUMAR SINGH	10	11	12							
15	1901289028	ABHIJIT NANDA	10	11	12							
16	2106289023	RAHUL RAMAN BHOL	10	11	12							
17	2106289024	RAJNI KUMARI LAGURI	10	11	12							
18	2106289025	ROHAN KUMAR ACHARJYA	10	11	12							
19	2106289026	RONAK JENA	10	11	12							
20	2106289027	SAMEER PADHY	11	12	13							
21	2106289028	SANGITA BEHERA	10	11	12							
22	2106289029	SHRABANI KUMARI PANDA	10	11	12							
23	2106289030	SIMRAN NAYAK	10	11	12							
24	2106289031	SK HAMMAD ALI	11	12	X							
25	2106289032	SMRUTI REKHA BESHRA	11	12	13							
26	2106289033	SMRUTIREKHA SWAIN	10	11	12							
27	2106289008	SOURAV PRASAD DAS	10	11	12							
28	2106289009	SOVAN PANIGRAHI	10	11	12							
29	2106289010	DEBABRATA FATHKAR	10	11	12							
30	2106289011	DEBASHISH SAHU	10	11	12							
35	2106289012	DEEPAK KUMAR DASH	10	11	12							
36	2106289034	G ADITYA PRASAD PATRO	11	12	13							
37	2106289035	GYANASWINEE NAYAK	11	12	13							

N. Begum

Signature of Teacher

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:15.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering Finance through Guided Problem Solving" for B. Tech and MBA students.

Respected Sir,

As per our departmental meeting held on dated 14.09.2022, we are planning to start a course "Mastering Finance through Guided Problem Solving" from 27.09.2022. The objective of the course is to provide foundational knowledge of Finance Topics to our students. The course duration and schedule are attached for your perusal.

Thanking You,

A. V. Begam

(HOD, MBA)

HOD
MBA

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering Finance through Guided Problem Solving

Total Lecture Periods: 32hrs

Course Objectives:

This course aims to enhance students proficiency in Finance by using guided problem-solving exercises. Students will learn to analyze financial data, understand financial concepts, and apply analytical tools to solve real-world financial problems, gaining practical knowledge and a strong foundation in finance.

MODULE-I: Introduction to Finance [8 periods]

- **Topics:** Basics of finance, time value of money, financial markets, and instruments.

MODULE-II: Financial Statement Analysis [8 periods]

- **Topics:** Understanding balance sheets, income statements, cash flow statements, and ratio analysis.

MODULE-III: Investment Analysis and Portfolio Management [8 periods]

- **Topics:** Risk and return, portfolio theory, and asset allocation.

MODULE-IV: Advanced Topics in Finance [8 periods]

- **Topics:** Capital budgeting, financial modeling, corporate finance, and case studies in finance.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand the fundamentals of finance and its applications.
CO2: Analyze and interpret financial statements.
CO3: Evaluate investment opportunities using analytical techniques.

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Trident Academy of Technology
Bhubaneswar-751024

CO4: Develop and apply financial models for decision-making.
CO5: Solve real-world financial problems using practical tools.
CO6: Collaborate effectively on finance-related projects and present insights.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. **Principles of Corporate Finance** by Brealey, Myers, and Allen
2. **Fundamentals of Financial Management** by Eugene F. Brigham

Other Sources:

- Financial data platforms like Yahoo Finance, Bloomberg
- e-Learning platforms like Coursera, Udemy

Pravas Jena

Pravas Jena

(Course Instructor)

(HOD, MBA)

HOD
MBA

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering Finance through Guided Problem Solving

Sl No	Date	Time	Course Content
1	27.09.2022	3:00 PM-6:00 PM	Basics of Finance and the Time Value of Money
2	28.09.2022	3:00 PM-6:00 PM	Overview of Financial Markets and Instruments
3	29.09.2022	3:00 PM-6:00 PM	Understanding Balance Sheets and Income Statements
4	01.10.2022	3:00 PM-6:00 PM	Cash Flow Statements and Ratio Analysis
5	03.10.2022	3:00 PM-6:00 PM	Risk and Return Analysis
6	04.10.2022	3:00 PM-6:00 PM	Portfolio Theory
7	05.10.2022	3:00 PM-6:00 PM	Asset Allocation Strategies
8	06.10.2022	3:00 PM-6:00 PM	Predictive Modeling and Regression Analysis
9	07.10.2022	3:00 PM-6:00 PM	Capital Budgeting and
10	08.10.2022	4:00 PM-6:00 PM	Financial Modelling
11	10.10.2022	4:00 PM-6:00 PM	Asset Allocation Theory
12	11.10.2022	5:00 PM-6:00 PM	Assessment

Pravas Jena

Pravas Jena

(Course Instructor)

(HOD, MBA)

HOD
MBA

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:17.09.2022

This is to inform all the students of B. Tech and MBA Students that the department of MBA will start an add-on course on "Mastering Finance through Guided Problem Solving" from 27.09. 2022.Intersted students must register on or before 24.09. 2022.The details of the course are as follows:

- Course name: Mastering Finance through Guided Problem Solving
- Instructor name: Pravas Jena
- Contact Number: 7008131282

Principal
17/09/22

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:25.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar,

Respected Sir,

A Total of 40 of students from various departments have enrolled for the value-added course on "Mastering Finance through Guided Problem Solving". This is for your kind information.

Pravas Jena

(Course Instructor)

(HOD, MBA)

HOD
MBA

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:11.10.2022

Finance
ASSESSMENT

Name Of the Student: Ronak Jence
Regd No: 2106284026

6/10

All Questions Compulsory

Q1: What is the primary objective of Finance?
A) Managing money and investments
B) Avoiding financial decisions
C) Reducing profits
D) Ignoring cash flow

Q2: What does ROI stand for in Finance?
A) Return on Investment
B) Rate of Income
C) Reverse Order Initiative
D) Revenue of Industry

Q3: What is an asset in Finance?
A) Something valuable owned by a person or company
B) A financial loss
C) A short-term liability
D) A tax deduction

Q4: Which financial statement shows a company's profitability?
A) Income Statement B) Balance Sheet C) Cash Flow Statement D) Tax Return

Q5: What is the role of a budget in Finance?
A) Planning and controlling financial resources
B) Ignoring expenses
C) Increasing debts
D) Spending without limits

Q6: What does liquidity mean in Finance?
A) How easily an asset can be converted into cash
B) A type of long-term investment
C) A company's total debt
D) A profit-sharing strategy

Q7: What is the function of a stock market?
A) Facilitating the buying and selling of shares
B) Storing company products
C) Avoiding economic growth
D) Reducing company revenue

Q8: What does a high credit score indicate?
A) Good financial responsibility
B) High debt levels
C) Poor loan repayment history
D) A business failure

Q9: Which of the following is an example of a financial risk?
A) Market Fluctuations
B) Fixed Salaries
C) Guaranteed Returns
D) Stable Interest Rates

Q10: What is compound interest?
A) Interest earned on both the principal and accumulated interest
B) A one-time payment
C) A fixed amount paid monthly
D) The initial deposit only

Pranaya Jence

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prevas Jena

Month/Year: Sept. 2022

Subject Code:

Branch:

Subject: Masters in Finance.

Sl. No	REGD NO	NAME	27/09	28/09	29/09	01/10	03/10	04/10	05/10	06/10	07/10	08/10
1	2106289001	AMIT KUMAR SWAIN	1	2	3	4	5	6	7	8	9	10
2	2106289002	ASHES KUMAR SWAIN	1	2	3	X	X	4	5	6	7	8
3	2106289003	ASHIS KUMAR BISWAL	1	2	3	4	5	6	7	8	9	10
4	2106289004	ASHUTOSH PRADHAN	1	2	3	4	5	X	6	7	8	9
5	2106289005	ASHUTOSH PRADHAN	1	2	3	4	5	6	7	8	9	10
6	2106289006	BEDAPRAKASH PRUSTY	1	2	3	X	X	4	5	6	7	8
7	2106289007	BHARGAVI DASH	1	2	3	4	5	6	7	8	X	9
8	2106289008	DEBABRATA FATHKAR	1	2	3	4	5	X	X	6	7	8
9	2106289009	DEBASHISH SAHU	1	2	3	4	5	X	6	7	8	9
10	2106289010	DEEPAK KUMAR DASH	X	1	2	3	4	5	X	6	7	8
11	2106289021	PRATEEKSHYA PATTANAYAK	1	2	3	4	5	6	7	X	8	9
12	2106289022	PRITI PRIYADARSHINI KALO	1	2	3	4	5	6	7	8	9	10
13	2106289023	RAHUL RAMAN BHOL	X	1	2	3	4	5	6	7	8	9
14	2106289024	RAJNI KUMARI LAGURI	X	1	2	3	4	5	6	7	8	9
15	2106289025	ROHAN KUMAR ACHARJYA	X	1	2	3	4	5	6	7	8	9
16	2106289026	RONAK JENA	1	2	3	4	5	6	7	8	9	10
17	2106289027	SAMEER PADHY	1	2	3	4	5	6	7	8	9	10
18	2106289028	SANGITA BEHERA	1	2	X	3	4	5	6	7	8	9
19	2106289029	SHRABANI KUMARI PANDA	1	2	3	4	X	X	5	6	7	8
20	2106289030	SIMRAN NAYAK	1	2	3	4	5	6	7	8	9	10
21	1901289185	SUBHAKANTA SATAPATHY	1	2	3	4	5	6	7	8	9	10
22	1901289186	SUBHAM SWAPNENDU JENA	1	X	2	3	4	X	5	6	7	8
23	1901289187	SUBHASHREE MALLICK	1	2	3	X	4	5	6	7	8	9
24	1901289188	SUBHRAJYOTI SAHOO	1	2	3	4	5	6	7	8	9	10
25	1901289189	SUDHIR KUMAR	X	1	2	3	4	5	6	7	8	9
26	1901289190	SUMAN PANDA	1	X	2	3	4	5	6	7	8	9
27	1901289191	SUMIT TIWARI	1	X	2	X	3	4	5	6	X	7
28	1901289185	SUBHAKANTA SATAPATHY	1	2	3	4	5	6	7	8	9	10
29	1901289186	SUBHAM SWAPNENDU JENA	1	2	X	3	4	5	6	7	8	X
30	1901289187	SUBHASHREE MALLICK	1	2	3	X	4	5	6	7	8	9
35	1901289206	PIYUSH KUMAR PRUSTY	1	2	3	4	5	6	7	8	9	X

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	1901289207	SAGAR MOHANTY	1	2	3	4	5	6	7	8	X	9
37	1901289208	SANJANA MOHAPATRA	1	2	X	3	4	5	6	X	7	8
39	1901289209	SOUMYA RANJAN BEHERA	1	2	3	4	5	X	6	7	8	9
40	1901289210	TARUN KUMAR SAHOO	1	2	X	3	4	X	5	6	7	8

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Pravas Jena

Month/Year: Sept. 2022

Subject Code:

Branch:

Subject: Masters in Finance.

Sl. No	REGD NO	NAME	10/10	11/10								
1	2106289001	AMIT KUMAR SWAIN	11	12								
2	2106289002	ASHES KUMAR SWAIN	9	10								
3	2106289003	ASHIS KUMAR BISWAL	11	X								
4	2106289004	ASHUTOSH PRADHAN	10	11								
5	2106289005	ASHUTOSH PRADHAN	X	X								
6	2106289006	BEDAPRAKASH PRUSTY	9	10								
7	2106289007	BHARGAVI DASH	10	11								
8	2106289008	DEBABRATA FATHKAR	9	X								
9	2106289009	DEBASHISH SAHU	10	11								
10	2106289010	DEEPAK KUMAR DASH	9	10								
11	2106289021	PRATEEKSHYA PATTANAYAK	10	11								
12	2106289022	PRITI PRIYADARSHINI KALO	11	12								
13	2106289023	RAHUL RAMAN BHOL	10	11								
14	2106289024	RAJNI KUMARI LAGURI	10	11								
15	2106289025	ROHAN KUMAR ACHARJYA	10	11								
16	2106289026	RONAK JENA	11	12								
17	2106289027	SAMEER PADHY	X	11								
18	2106289028	SANGITA BEHERA	X	10								
19	2106289029	SHRABANI KUMARI PANDA	9	10								
20	2106289030	SIMRAN NAYAK	11	11								
21	1901289185	SUBHAKANTA SATAPATHY	11	12								
22	1901289186	SUBHAM SWAPNENDU JENA	9	10								
23	1901289187	SUBHASHREE MALLICK	10	11								
24	1901289188	SUBHRAJYOTI SAHOO	11	12								
25	1901289189	SUDHIR KUMAR	10	11								
26	1901289190	SUMAN PANDA	10	11								
27	1901289191	SUMIT TIWARI	8	9								
28	1901289185	SUBHAKANTA SATAPATHY	11	12								
29	1901289186	SUBHAM SWAPNENDU JENA	9	10								
30	1901289187	SUBHASHREE MALLICK	10	11								
35	1901289206	PIYUSH KUMAR PRUSTY	10	11								

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36	1901289207	SAGAR MOHANTY	10	11								
37	1901289208	SANJANA MOHAPATRA	9	10								
39	1901289209	SOUMYA RANJAN BEHERA	10	11								
40	1901289210	TARUN KUMAR SAHOO	X	9								

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 10.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering Business Communication through Guided Problem Solving" for B. Tech & MBA students.

Respected Sir,

As per our departmental meeting held on 09.09.2022, we are planning to start an add on course on "Mastering Business Communication through Guided Problem Solving" from 22.09.2022. The objective of the course is to provide foundational knowledge of Key Communication Topics for our students. The course duration and schedule are attached for your perusal.

Thanking You,

N. Behera

(HOD, MBA)

HOD
MBA

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SYLLABUS

Mastering Business Communication through Guided Problem Solving

Total Lecture Periods: 48hrs

Course Objectives:

This course aims to enhance students' proficiency in Business Communication by using guided problem-solving exercises. Students will learn to develop professional communication skills, improve clarity in written and verbal communication, and understand the nuances of business interactions to build a strong foundation in this field.

MODULE-I: Fundamentals of Business Communication [12 periods]

- **Topics:** Basics of effective communication, communication models, and barriers to communication.

MODULE-II: Writing Skills [12 periods]

- **Topics:** Business letters, emails, reports, and proposal writing techniques.

MODULE-III: Verbal and Non-Verbal Communication [12 periods]

- **Topics:** Presentation skills, body language, active listening, and interpersonal communication.

MODULE-IV: Advanced Topics in Business Communication [12 periods]

- **Topics:** Cross-cultural communication, group discussions, conflict resolution, and negotiation skills.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand the fundamentals of effective business communication.
CO2: Write professional business documents and emails with clarity.
CO3: Deliver impactful verbal presentations and manage non-verbal cues.

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CO4: Navigate cross-cultural communication challenges in professional settings.
CO5: Collaborate effectively in group discussions and negotiations.
CO6: Apply communication strategies to real-world business scenarios.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. **Business Communication: Building Critical Skills** by Kitty O. Locker
2. **Essentials of Business Communication** by Mary Ellen Guffey

Other Sources:

- Online courses on business communication (Coursera, LinkedIn Learning)
- TED Talks and business communication webinars

Pravas Jena

Pravas Jena

(Course Instructor)

N. Begam

(HOD, MBA)

HOD
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SCHEDULE

Mastering Business Communication through Guided Problem Solving

Sl No	Date	Time	Course Content
1	21/09/2022	3:00PM-6:00PM	Basics of Effective Communication and Communication Models
2	22/09/2022	3:00PM-6:00PM	Barriers to Communication and Strategies to Overcome Them
3	23/09/2022	3:00PM-6:00PM	Techniques for Writing Business Letters and Emails
4	24/09/2022	3:00PM-6:00PM	Report Writing and Proposal Writing Skills
5	26/09/2022	3:00PM-6:00PM	Enhancing Presentation Skills and Effective Use of Body Language
6	27/09/2022	3:00PM-6:00PM	Active Listening
7	28/09/2022	3:00PM-6:00PM	Practical Application of Verbal
8	29/09/2022	3:00PM-6:00PM	Understanding Cross-Cultural Communication and its Importance
9	30/09/2022	3:00PM-6:00PM	Conducting and Participating in Group Discussions
10	01/10/2022	3:00PM-6:00PM	Conflict Resolution Strategies
11	03/10/2022	3:00PM-6:00PM	Verbal Communication
12	04/10/2022	3:00PM-6:00PM	Interpersonal Communication
13	05/10/2022	3:00PM-6:00PM	Participating in Group Discussions
14	06/10/2022	3:00PM-6:00PM	Conflict Resolution Techniques
15	07/10/2022	3:00PM-6:00PM	Developing Effective Negotiation Skills
16	08/10/2022	4:00PM-6:00PM	Non-Verbal Communication
17	10/10/2022	5:00PM-6:00PM	Assessment

Pravas Jena

Pravas Jena

(Course Instructor)

N. Begum

(HOD, MBA)

HOD
MBA

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:12.09.2022

This is to inform all B. Tech & MBA students that the department of MBA will start an add-on course on Business Communication from 21/09/2022. Interested students must register on or before 18/09/2022. The course details are as follows.

Course name: Mastering Business Communication through Guided Problem Solving

Instructor name: Pravas Jena

Concerned person for Registration: Pravas Jena

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 19.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: List of Students Enrolled for the Add-on Course on "Mastering Business Communication through Guided Problem Solving".

Respected Sir,

We are going to start a course on "Mastering Business Communication through Guided Problem Solving " from 21.09.2022 and a total of 45 Students have enrolled for this course. This is for your kind information.

Pravas Jena.

Pravas Jena
(Course Instructor)

M. Begam.

(HOD, MBA)
HOD
MBA

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**
Date:10.10.2022

Business Communication
ASSESSMENT

Name Of the Student: Abijit Sahoo
Regd No: 2206258001

9/10

All Questions Compulsory

Q1: What is the primary objective of Business Communication?
A) To exchange information effectively in a business environment
B) To confuse employees
C) To use slang in professional settings
D) To avoid workplace discussions

Q2: Which of the following is an example of formal business communication?
A) Office memo B) Casual talk at lunch C) Texting a friend D) Gossiping

Q3: Why is active listening important in business communication?
A) It helps in better understanding and response B) It allows multitasking
C) It slows down conversations D) It is not necessary

Q4: Which type of communication involves gestures and facial expressions?
A) Verbal communication B) Non-verbal communication
C) Written communication D) Email communication

Q5: What is the key purpose of a business report?
A) To provide information and analysis for decision-making B) To spread rumors
C) To entertain employees D) To make jokes in the workplace

Q6: What is the primary advantage of email communication in business?
A) Fast and formal communication B) It allows gossiping
C) It is always informal D) It replaces all forms of communication

Q7: Which of the following is an example of downward communication?
A) A manager giving instructions to employees B) Two employees discussing work
C) An employee giving feedback to a manager D) A customer reviewing a product

Q8: What is the best way to handle workplace conflicts?
A) Open and respectful communication B) Avoiding the issue
C) Ignoring the problem D) Gossiping about it

Q9: Which of the following is NOT a communication barrier?
A) Active listening B) Language differences C) Noise D) Cultural differences

Q10: What is the purpose of a business presentation?
A) To communicate information effectively to an audience
B) To distract employees
C) To waste time in meetings
D) To tell personal stories

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prevas Jena

Month/Year: Sept. 2022

Subject Code:

Branch:

Subject: Masters in Business Communication.

Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	26/09	27/09	28/09	29/09	30/09	01/10
1	2206289001	ABHIJIT SAHOO	1	2	3	4	5	6	7	X	8	9
2	2206289002	ADITYA AYUSH	1	2	3	4	5	X	6	7	8	9
3	2206289003	ADYASHA BEHERA	1	2	3	4	X	5	6	7	8	9
4	2206289004	AMAN BATU	1	2	3	4	5	X	6	7	8	9
5	2206289005	ANIMESH MOHANTY	1	2	3	4	X	5	6	7	8	9
6	2206289006	ANISHA MOHANTY	1	2	3	4	X	5	6	7	8	9
7	2206289007	ANKIT KUMAR SINGH	1	2	3	4	5	6	7	X	8	9
8	2206289008	ARUNIMA GIRI	1	2	X	3	4	5	6	7	8	9
9	2206289009	ASHISH KUMAR LENKA	1	2	3	4	5	X	6	7	8	9
10	2206289010	ASWINI KUMAR BEHERA	1	2	3	4	5	6	7	X	8	9
11	2206289011	AVISHEK BEHERA	1	2	3	4	5	X	6	7	8	9
12	2206289012	AYUSHI BEHERA	1	2	3	X	4	5	6	7	8	9
13	2206289013	DIBYAJYOTI PANDA	1	2	3	4	5	6	7	X	8	9
14	2206289014	HRUDANANDA PATRA	1	2	3	4	5	X	6	7	8	9
15	2206289015	JAYANTA KUMAR SAHOO	1	2	3	4	5	6	7	8	X	9
16	2206289016	JINATAMANA SAHU	1	2	3	4	5	6	X	7	8	9
17	2206289017	JYOTIREKHA BEHERA	1	X	2	3	4	5	6	7	8	9
18	2206289018	JYOTIRMAYEE MAHARANA	1	2	3	4	5	X	6	7	8	9
19	2206289019	MADHUSMITA SAHOO	1	2	3	X	4	5	6	7	8	9
20	2206289020	MANASRUTI DASH	1	2	3	4	X	5	6	7	8	9
21	2206289021	MRUTYUNJAYA BISWAL	1	2	3	4	X	5	6	7	8	9
22	2206289022	MUSKAN BEGUM	1	X	2	3	4	5	6	7	8	9
23	2206289023	PRATISHRUTI PRIYADARSINI SAMANTA	1	2	3	X	4	5	6	7	8	9
24	2206289024	PREMANANDA GOUDA	1	2	3	4	X	5	6	7	8	9
25	2206289025	RADHARANI DASH	1	2	3	X	4	5	6	7	8	9
26	2206289026	RAHUL SINGH	1	2	3	X	4	5	6	7	8	9
27	2206289027	RAJNANDINI PRUSTY	1	2	3	4	X	5	6	7	8	9
28	2206289028	RAMANDEEP SINGH	1	2	3	4	5	6	X	7	8	9
29	2206289029	RANI SOREN	1	2	3	X	4	5	6	7	8	9
30	2206289030	RASHMIRANJITA ROUT	1	2	3	4	X	5	6	7	8	9

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31	2206289031	RASMITA KHATUA	1	2	3	X	4	5	6	7	8	9
32	2206289032	RUPALI RESHMA SAMANTARAY	1	2	3	4	X	5	6	7	8	9
33	1901289044	AMAN KUMAR	1	X	2	3	4	5	6	7	8	9
34	1901289045	AMISHA DASH	1	2	3	X	4	5	6	7	8	9
35	1901289046	AMIT KUMAR DASH	1	2	3	4	5	X	6	7	8	9
36	1901289047	AMIYA GHADEI	1	2	3	4	X	5	6	7	8	9
37	1901289048	AMLIKA ROUTRAY	1	2	3	4	5	6	X	7	8	9
38	1901289049	AMRITSAI MOHARANA	1	X	2	3	4	5	6	7	8	9
39	1901289050	ANGELINA MAHARANA	1	2	3	X	4	5	6	7	8	9
40	1901289051	ANIL KUMAR SINGH	1	2	3	X	4	5	6	7	8	9
41	1901289052	ANIMESH PATTNAIK	1	2	3	4	5	6	X	7	8	9
42	1901289053	ANKIT SINHA	1	2	X	3	4	5	6	7	8	9
43	1901289054	ANKITA DASH	1	2	3	X	4	5	6	7	8	9
44	1901289055	ANKITA NAYAK	1	2	X	3	4	5	6	7	8	9
45	1901289056	ANKUR JAYASINGH	1	2	3	4	X	5	6	7	8	9

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Pravas Jena

Month/Year: Sept 2022

Subject Code:

Branch:

Subject: Master in Business Communication.

Sl. No	REGD NO	NAME	03/10	04/10	05/10	06/10	07/10	08/10	10/10			
1	2206289001	ABHIJIT SAHOO	10	11	12	13	14	15	16			
2	2206289002	ADITYA AYUSH	10	11	12	13	14	15	16			
3	2206289003	ADYASHA BEHERA	10	11	12	13	14	15	16			
4	2206289004	AMAN BATU	10	11	12	13	14	15	16			
5	2206289005	ANIMESH MOHANTY	10	11	12	13	14	15	16			
6	2206289006	ANISHA MOHANTY	10	11	12	13	14	15	16			
7	2206289007	ANKIT KUMAR SINGH	10	11	12	13	14	15	16			
8	2206289008	ARUNIMA GIRI	10	11	12	13	14	15	16			
9	2206289009	ASHISH KUMAR LENKA	10	11	12	13	14	15	16			
10	2206289010	ASWINI KUMAR BEHERA	10	11	12	13	14	15	16			
11	2206289011	AVISHEK BEHERA	10	X	11	12	13	14	15			
12	2206289012	AYUSHI BEHERA	10	11	12	13	14	15	16			
13	2206289013	DIBYAJYOTI PANDA	10	11	12	13	14	15	16			
14	2206289014	HRUDANANDA PATRA	10	11	12	13	14	15	16			
15	2206289015	JAYANTA KUMAR SAHOO	10	11	X	12	13	14	15			
16	2206289016	JINATAMANA SAHU	10	11	12	13	14	15	16			
17	2206289017	JYOTIREKHA BEHERA	10	11	12	13	14	15	16			
18	2206289018	JYOTIRMAYEE MAHARANA	10	11	12	13	14	15	16			
19	2206289019	MADHUSMITA SAHOO	10	11	12	13	14	15	16			
20	2206289020	MANASRUTI DASH	10	X	11	12	13	14	15			
21	2206289021	MRUTYUNJAYA BISWAL	10	11	12	13	14	15	16			
22	2206289022	MUSKAN BEGUM	10	11	12	13	14	15	16			
23	2206289023	PRATISHRUTI PRIYADARSINI SAMANTA	10	11	12	13	14	15	16			
24	2206289024	PREMANANDA GOUDA	10	11	12	13	14	15	16			
25	2206289025	RADHARANI DASH	10	11	12	13	14	15	16			
26	2206289026	RAHUL SINGH	10	11	12	13	14	15	16			
27	2206289027	RAJNANDINI PRUSTY	10	11	12	13	14	15	16			
28	2206289028	RAMANDEEP SINGH	10	11	12	13	14	15	16			
29	2206289029	RANI SOREN	10	11	12	13	14	15	16			
30	2206289030	RASHMIRANJITA ROUT	10	11	12	13	14	15	16			

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Date:03.08.2022

To,

The Principal
Trident Academy of Technology,
Bhubaneswar,
Patia

Sub: Permission to start certificate course in " MI Power " for B.Tech (EEE) students.

Respected Sir,

As per our departmental meeting held on 01-08-2022, we are planning to start a course "Mastering MI Power " from 11th August 2022. The objective of the course is to give basic knowledge of Load Flow Analysis and Numerical Computation to our final year students. The course duration and schedule are attached for your perusal.

Thanking You,
Lohit Kumar Sahoo

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Bhubaneswar-751024

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Date:03.08.2022

MI POWER

Detailed Syllabus

Total Lecture Periods: 35

- Power system network editor.
- Database manager.
- Batch Mode Utility.
- Graph Utility.
- Database upgradation.
- AutoCAD Interface.
- Automatic single line diagram generation.
- Free programmable blocks.
- Long Term Load Forecast
- Line and Cable Parameter Calculation
- Load flow Analysis
- Short Circuits Analysis
- Transient Stability Study
- Voltage Instability Analysis
- Harmonic Analysis
- Dynamic Stability Analysis

Course Instructor

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MI POWER

SCHEDULE

DAY 1	Introduction to MIPOWER. Brief idea about: Power System Network Editor, Database Manager, Batch Mode Utility, Graph Utility, AutoCAD interface, Long term Load forecast, Line and cable parameter calculation.
DAY 2	Technical Knowledge about: Power System Studies, System Modelling, Load Flow Analysis, Fault Analysis, Stability Analysis, Relay Coordination.
DAY 3	Hands-on training: LFA 3-ph LFA Voltage Instability Analysis
DAY 4	Hands-on training: Long term load forecasting Harmonic Analysis Sub synchronous resonance
DAY 5	Hands-on training: EM Transient Analysis Ground MAT Design Relay coordination
DAY 6	Hands-on training: Short circuit studies Line and cable parameter Transient Stability Studies
DAY 7	Current Live project
DAY 8	Current Live project

Course Instructor

ATTESTED

HOD, Dept

HOD
Electrical & Electronics Engg.

Principal
Trident Academy of Technology
Bhubaneswar-751024

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:03.08.2022

To.

The Principal
Trident Academy of Technology,
Bhubaneswar,
Patia

Respected Sir,

The following is the attached list of students from different specializations who have enrolled for the value-added course on "MI POWER":

Sl. No.	REGD NO	NAME
1	2001289381	Pooja paramita Pradhan
2	2001289313	ASHUTOSH NAYAK
	2021289054	BISHAL RAY
4	2001289312	BRUSHNI NANDAN SENAPATI
5	2001289314	JEEVAN YADAB
6	2003202226	KIRAN KUMAR MANDAL
7	2001289315	KIRAN KUMAR MANDAL
8	2021289055	MANJEET ROSHAN PRADHAN
9	2021289052	NUTAN PRASAD NAYAK
10	2001289316	PRATYUSH KUMAR BHOI
11	2021289053	SIDHARTH RAJ
12	2001289109	Rosy Mishra
13	2001289111	Monica Priyadarshini Prusty
14	2021289048	ASHIS ANUPAM PATNAIK
15	2001289308	BISWA PRAKASH BEHERA

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16	2021289042	MUKESH JENA
17	2021289043	PRIYABRATA BHUYAN
18	2021289044	RONAK KUMAR SHARMA
19	2001289310	S SRIRAM REDDY
20	2021289049	SAMBIT KUMAR SATAPATHY
21	2001289309	SANKAR PRASAD DAS
22	2021289045	SATYAJIT ROUT
23	2021289046	SHIVANANDA DASH
24	2021289050	SOUMYA RANJAN DASH
25	2001289311	SRIKANTA NAYAK
26	2021289051	SUBHAM PRADHAN
27	2001289147	Jaganath Pradhan
28	2001289148	Chandan Kumar Adak
29	2001289149	Gopal Prasad Satapathy
30	2001289150	Subha Darshan Panigrahi

Course Instructor

HOD, Dept

HOD
Electrical & Electronics Engg.

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Trident Academy of Technology
Bhubaneswar-751024

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Principal
Trident Academy of Technology
Bhubaneswar-751024

NOTICE

This is to inform all the students of B.Tech (EEE) that the department is going to initiate a course on MI POWER from 11th August 2022. By 3rd , all are instructed to register for the course. The details of the courses are as follows:

Course name: MI POWER through Guided Problem Solving
Instructor name: Asst. Prof. Lohit Kumar Sahoo
Concerned person for Registration: Mr. Subash Kumar Mohanty

ATTESTED

Principal
Trident Academy of Technology
Bhubaneswar-751024

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Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:18.08.2022

Mi Power
ASSESSMENT

Name Of the Student:
Regd No:

9/10

All Questions Compulsory

Q1: What does "Mi Power" primarily focus on?
A) Personal development and leadership B) Playing games
C) Watching TV shows D) Avoiding teamwork

Q2: Which of the following is an essential leadership quality?
A) Effective decision-making B) Ignoring team members
C) Blaming others for mistakes D) Procrastination

Q3: What is the importance of self-motivation in personal growth?
A) It helps in achieving personal and professional goals B) It decreases work efficiency
C) It makes people lazy D) It is not necessary

Q4: Which skill is most important in team collaboration?
A) Communication B) Isolation C) Ignorance D) Rudeness

Q5: What is the best way to develop confidence?
A) Practicing self-discipline and public speaking B) Avoiding new challenges
C) Ignoring constructive feedbac D) Depending on others' opinions

Q6: Which mindset is important for personal and professional growth?
A) Growth mindset B) Fixed mindset C) Negative mindset D) Lazy mindset

Q7: How does time management help in achieving success?
A) It improves productivity and efficiency B) It reduces accountability
C) It increases procrastination D) It has no impact

Q8: Why is networking important in career growth?
A) It helps build professional relationships and opportunities B) It wastes time
C) It creates distractions D) It is unnecessary

Q9: What does emotional intelligence help with?
A) Managing emotions and improving relationships B) Ignoring people's feelings
C) Avoiding teamwork D) Hiding personal emotions

Q10: Which of the following is a key factor in achieving career success?
A) Continuous learning and adaptability
B) Refusing to learn new skills
C) Avoiding challenges
D) Sticking to old methods

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Rohit kr Sahoo

Month/Year: Aug 2022

Subject Code:

Branch: EEE

Subject: MI Power

Sl. No.	REGD NO	NAME	11/08	12/08	13/08	14/08	15/08	16/08	17/08	18/08
1	2001289381	Pooja paramita Pradhan	P	P	P	P	P	P	P	P
2	2001289313	ASHUTOSH NAYAK	P	P	P	A	P	P	P	P
	2021289054	BISHAL RAY	P	P	P	P	P	P	P	P
4	2001289312	BRUSHNI NANDAN SENAPATI	P	P	P	P	P	P	P	P
5	2001289314	JEEVAN YADAB	P	P	P	P	P	P	P	P
6	2003202226	KIRAN KUMAR MANDAL	P	P	P	P	P	P	P	P
7	2001289315	KIRAN KUMAR MANDAL	P	P	A	P	P	P	P	A
8	2021289055	MANJEET ROSHAN PRADHAN	P	P	P	P	P	P	P	P
9	2021289052	NUTAN PRASAD NAYAK	P	P	P	P	P	P	P	P
10	2001289316	PRATYUSH KUMAR BHOI	P	P	P	P	P	P	P	P
11	2021289053	SIDHARTH RAJ	P	P	P	P	P	P	P	P
12	2001289109	Rosy Mishra	P	P	P	P	P	P	P	P
13	2001289111	Monica Priyadarshini Prusty	P	P	P	A	P	P	P	P
14	2021289048	ASHIS ANUPAM PATNAIK	P	P	P	P	P	P	P	P
15	2001289308	BISWA PRAKASH BEHERA	P	P	P	P	P	A	P	P
16	2021289042	MUKESH JENA	P	P	P	P	P	P	P	P
17	2021289043	PRIYABRATA BHUYAN	P	P	A	P	P	P	P	P

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18	2021289044	RONAK KUMAR SHARMA	P	P	P	P	P	P	P	P		
19	2001289310	S SRIRAM REDDY	P	A	P	P	P	P	P	P		
20	2021289049	SAMBIT KUMAR SATAPATHY	P	P	P	P	P	P	P	P		
21	2001289309	SANKAR PRASAD DAS	P	P	P	P	P	P	P	P		
22	2021289045	SATYAJIT ROUT	P	P	P	A	P	P	P	P		
23	2021289046	SHIVANANDA DASH	P	P	P	P	P	P	P	P		
24	2021289050	SOUMYA RANJAN DASH	P	P	P	P	P	P	P	P		
25	2001289311	SRIKANTA NAYAK	P	P	P	P	P	P	P	P		
26	2021289051	SUBHAM PRADHAN	P	A	P	P	P	P	P	P		
27	2001289147	Jaganath Pradhan	P	P	P	P	P	P	P	P		
28	2001289148	Chandan Kumar Adak	P	P	P	P	P	P	P	P		
29	2001289149	Gopal Prasad Satapathy	P	P	P	P	P	A	P	P		
30	2001289150	Subha Darshan Panigrahi	P	P	P	P	P	P	P	P		

Signature of the teacher

Signature of HOD

HOD
Electrical & Electronics Engg.

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF MECHANICAL ENGG

Ref. No. TAT/MECH/553/2022 Date: 16-03-2022

To,

The Principal
Trident Academy of Technology, Bhubaneswar

Sub: Permission to start certificate course in "AutoCAD" for B. Tech (Mech. Engg.) students.

Sir,

As per our departmental meeting held on dated 16-03-2022, we are planning to start an add on course on "AutoCAD" from 7th of April. The objective of the course is to give basic knowledge on AutoCAD with engineering drawing to our 4th semester students. The course duration and schedule is attached for your perusal.

Thanking You 16/03/22

HOD(MECHANICAL)

HOD
Mechanical Engineering

Principal
Trident Academy of Technology
Bhubaneswar-751024

ATTESTED

16/3/22

Principal
Trident Academy of Technology
Bhubaneswar-751024

Plot No - F2/A, Chandaka Industrial Estate, Infocity Area, Chandrasekharpur, Bhubaneswar-751 024, Odisha
Phone (0674)-3530517, E-mail info@trident.ac.in, Website www.tat.ac.in

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Principal
Trident Academy of Technology
Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY

Ref. No. TAT/MECH/557/2022

Date: 18-03-2022

NOTICE

This is to inform to all the students of B. Tech (Mech. Engg.), that the department is going to initiate a course on AutoCAD from 30th March, 2022. By 4th of April all are instructed to register for the course.

Course name: AutoCAD

Instructor name: Sambit Mohanty

Concerned person for Registration: Sambit Mohanty, 9337644096

Principal

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Trident Academy of Technology
Bhubaneswar-751024

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF MECHANICAL ENGG

Ref. No. TAT/MECH/555/2022

Date: 01-04-2022

AutoCAD for Beginners

SCHEDULE

Date	Day	Time	Course Content
07/04/2022	1.	6 PM – 8 PM	Introduction to CAD Advantages
08/04/2022	2.	6 PM – 8 PM	Hardware Requirement
13/04/2022	3.	6 PM – 8 PM	Exposure to Graphics Area
14/04/2022	4.	6 PM – 8 PM	Initial Setting & viewing
15/04/2022	5.	6 PM – 8 PM	Drawing Basic Entities
20/04/2022	6.	6 PM – 8 PM	To Draw Line, Circle, Rectangle, Construction Line etc.
21/04/2022	7.	6 PM – 8 PM	Editing Drawing with Basic Tools Erase, Copy, Mirror, Move, Offset, Array, Scale, Lengthen etc.
22/04/2022	8.	6 PM – 8 PM	Organizing Drawing with Layer
27/04/2022	9.	6 PM – 8 PM	Organizing Drawing with object
28/04/2022	10.	6 PM – 8 PM	Properties Creating Text
29/04/2022	11.	6 PM – 8 PM	Single line Text and Multi Line Text Dimensioning Commands
04/05/2022	12.	6 PM – 8 PM	UCS (User Co-ordinate System)
05/05/2022	13.	6 PM – 8 PM	Types of Three Dimensional Modeling
06/05/2022	14.	6 PM – 8 PM	Surface Modeling
18/05/2022	15.	6 PM – 8 PM	Solid Modeling
19/05/2022	16.	6 PM – 8 PM	Editing Solids
20/05/2022	17.	6 PM – 8 PM	Solid Modeling Editing Solids
02/06/2022	18.	6 PM – 8 PM	Three Dimensional operations
03/06/2022	19.	6 PM – 8 PM	Shading & Rendering
07/06/2022	20.	6 PM – 8 PM	Technical Drawing with AutoCAD
08/06/2022	21.	6 PM – 8 PM	Revision Class

Sambit Mohanty
Course Instructor

ATTESTED

HOD, (Mech. Engg)
01/04/22
HOD
Mechanical Engineering

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Phone (0674)-3530517, E-mail: info@trident.ac.in, Website www.tat.ac.in

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CONTACT

9861447306,9337644096

hodce@tat.ac.in

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF MECHANICAL ENGG

Ref. No. TAT/MECH/556/2022

Date: 05-04-2022

To
The Principal
Trident Academy of Technology, Bhubaneswar

Sir
The list of students from different specialization who have enrolled for value-added course on "AutoCAD for Begineers" are given below.

Sl. No.	NAME	Reg. Number
1	ABHINASH JENA	1901289391
2	AMIT GHOSAL	1901289392
3	MANMOHAN MAHANTA	1901289397
4	PRABHU PRABINA SWAIN	1901289399
5	PRABIN KUMAR BISOYI	1901289400
6	RAJESH KUMAR PRADHAN	1901289401
7	RAJESH KUMAR SAMAL	1901289402
8	RASHMIRANJAN DAS	1901289403
9	SANGRAM PRADHAN	1901289404
10	UTKARSH	1901289405
11	ABHISHEK RAY	2021289066
12	BALARAM SWAIN	2021289068
13	MANISH KUMAR NAYAK	2021289070
14	SOURESH CHATTERJEE	2021289072
15	ABHISHEK MOHANTY	2021289073
16	PRATYUSH KUMAR MOHANTY	2021289077
17	BRUNDABAN DALEI	2021289074
18	DINESH SHARMA	2021289075
19	DURGA PRASAD BHAL	2021289076
20	SWAISTIK PRUSTY	2021289079
21	SAGAR KUMAR YADAB	2021289078
22	ASWINI KUMAR SAHU	1901289393
23	BIKASH JHANKAR	1901289394
24	HARSH PASWAN	1901289395
25	AYUSH HALI	2021289067
26	SANKET ACHARYA	2021289071

Sambit Mohanty
Course Instructor

HoD, Mech Engg

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TRIDENT ACADEMY OF TECHNOLOGY

DEPT OF MECHANICAL ENGG

Ref. No. TAT/MECH/554/2022 Date: 01-04-2022

AutoCAD for Beginners

Course Objective

1. Basic knowledge of AutoCAD with application to engineering drawing.

Duration: 40hrs

Detailed Syllabus

Introduction to CAD, Drawing basic Entities, Editing Drawing with Basic Tool, Organizing, Drawing with Layer & object Properties, Creating Test, Single Line Text & Multi Line text, Dimensioning Commands, UCS (User Co- ordinate System), Viewing in Three Dimension Types of Three Dimensional Modeling, Three dimensional operations, Shading & rendering, Technical Drawing with AutoCAD

Sambit Mohanty
Course Instructor

01/04/22
HOD, Dept
HOD
Mechanical Engineering

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:08.06.2022

AUTOCAD ASSESSMENT

Name Of the Student:
Regd No:

All Questions Compulsory

6/10

Q1: What is AutoCAD used for?
A) Designing 2D and 3D models
B) Writing reports
C) Playing games
D) Editing videos

Q2: Which industry commonly uses AutoCAD?
A) Architecture and Engineering
B) Cooking
C) Music Production
D) Teaching

Q3: What is the default file extension for AutoCAD drawings?
A) .dwg B) .pdf C) .jpeg D) .txt

Q4: Which command is used to draw a circle in AutoCAD?
A) CIRCLE B) RECTANGLE C) LIN D) ERASE

Q5: What does the OFFSET command do in AutoCAD?
A) Creates parallel lines or copies objects at a set distance
B) Deletes objects
C) Rotates objects
D) Changes object colors

Q6: What is the function of the LAYERS feature in AutoCAD?
A) Organizes objects for better design control
B) Deletes designs
C) Copies objects randomly
D) Increases file size unnecessarily

Q7: Which coordinate system does AutoCAD use?
A) Cartesian coordinate system
B) Alphabetic coordinate system
C) Binary coordinate system
D) Phonetic coordinate system

Q8: What is the purpose of the BLOCK command in AutoCAD?
A) To create reusable symbols
B) To erase objects
C) To close AutoCA
D) To create new files

Q9: What is the function of the SNAP feature in AutoCAD?
A) Helps objects align precisely on a grid
B) Deletes objects
C) Moves objects randomly
D) Closes the drawing

Q10: What is the use of the DIMENSION tool in AutoCAD?
A) To add measurements to drawings
B) To delete lines
C) To create duplicate objects
D) To change background color

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Bhubaneswar-751024

Semester- **Trident Academy of Technology, Bhubaneswar** Month/Year- 04/2022

Subject/Code- Auto cad for Boys Attendance Sheet Branch-

NameofTeacher- Sambit Mohanty Section-

SL. NO	Reg.Number	NAME	7/4	8/4	13/4	14/4	19/4	20/4	21/4	22/4	27/4	28/4
1	1901289391	ABHINASH JENA	P	P		A	P	P	P	P	P	P
2	1901289392	AMIT GHOSAL	P	P	A	P	P	A	P	P	P	P
3	1901289397	MANMOHAN MAHANTA	P	A	P	P	P	P	P	P	P	P
4	1901289399	PRABHU PRABINA SWAIN	P	P	P	P	P	P	P	P	P	P
5	1901289400	PRABIN KUMAR BISOYI	P	P	P	P	P	P	P	A	P	P
6	1901289401	RAJESH KUMAR PRADHAN	A	P	P	P	A	P	P	P	P	A
7	1901289402	RAJESH KUMAR SAMAL	P	P	P	P	P	P	P	P	P	P
8	1901289403	RASHMIRANJAN DAS	P	P	P	P	P	P	P	P	P	P
9	1901289404	SANGRAM PRADHAN	P	P	P	P	P	P	A	P	P	P
10	1901289405	UTKARSH	P	A	P	P	P	P	P	P	P	P
11	2021289066	ABHISHEK RAY	P	P	P	P	P	P	P	P	P	P
12	2021289068	BALARAM SWAIN	P	P	A	P	P	P	P	P	P	P
13	2021289070	MANISH KUMAR NAYAK	A	P	P	P	P	P	P	P	P	P
14	2021289072	SOURESH CHATTERJEE	P	P	P	P	P	P	P	P	P	P
15	2021289073	ABHISHEK MOHANTY	P	P	P	A	P	P	P	P	P	P
16	2021289077	PRATYUSH KUMAR MOHANTY	P	P	P	P	P	P	P	P	P	P
17	2021289074	BRUNDABAN DALEI	P	P	P	P	P	A	P	P	P	P
18	2021289075	DINESH SHARMA	P	P	P	P	A	P	P	P	P	P
19	2021289076	DURGA PRASAD BHAL	P	P	P	P	P	P	P	P	P	P
20	2021289079	SWAISTIK PRUSTY	P	A	P	P	P	P	A	P	P	P
21	2021289078	SAGAR KUMAR YADAB	P	P	P	P	P	P	P	P	P	P
22	1901289393	ASWINI KUMAR SAHU	P	P	P	P	P	P	P	P	P	P
23	1901289394	BIKASH JHANKAR	P	P	A	P	P	P	P	P	P	P
24	1901289395	HARSH PASWAN	A	P	P	A	P	P	P	P	P	P
25	2021289067	AYUSH HALI	P	P	P	P	P	P	P	P	P	A
26	2021289071	SANKET ACHARYA	P	A	P	P	A	P	P	P	P	P

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Sambit Mohanty
Signature of the Teacher

Principal
Trident Academy of Technology
Bhubaneswar-751024

Signature of the HOD 28/04/22

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Bhubaneswar-751024

Semester-

Trident Academy of Technology, Bhubaneswar

Month/Year- May 22

Subject/Code-Autocad for Degrees **Attendance Sheet**

Branch-

NameofTeacher- Sambit Mohanty

Section-

SL. NO	Reg.Number	NAME	29/4	4/5	5/5	6/5	18/5	19/5	20/5	01/06	3/6	7/6
1	1901289391	ABHINASH JENA	P	P	P	P	P	P	A	P	P	P
2	1901289392	AMIT GHOSAL	P	P		P	P	P	P	P	P	P
3	1901289397	MANMOHAN MAHANTA	P	P	P	P	P	A	P	P	P	A
4	1901289399	PRABHU PRABINA SWAIN	P	P	P	P	P	P	P	P	P	P
5	1901289400	PRABIN KUMAR BISOYI	A	P	P	P	P	P		P	P	P
6	1901289401	RAJESH KUMAR PRADHAN	P	P	P	P	P	A	P	P	P	P
7	1901289402	RAJESH KUMAR SAMAL	P	A	P	P	P	P	P	P	P	P
8	1901289403	RASHMIRANJAN DAS	P	P	P	P	P	P	P	P	P	P
9	1901289404	SANGRAM PRADHAN	P	P	P	P	P	P	P	P	P	P
10	1901289405	UTKARSH	P	P	P	P	P	P	P	P	P	P
11	2021289066	ABHISHEK RAY	P	P	P	P	P	P	P	P	P	P
12	2021289068	BALARAM SWAIN	P	P	P	P	P	P	P	P	P	A
13	2021289070	MANISH KUMAR NAYAK	P	P	P	P	P	P	P	P	P	P
14	2021289072	SOURESH CHATTERJEE	P	P	A	P	P	P	P	P	P	P
15	2021289073	ABHISHEK MOHANTY	P	P	P	P	P	P	P	P	P	P
16	2021289077	PRATYUSH KUMAR MOHANTY	P	P	P	P	P	P	P	A	A	P
17	2021289074	BRUNDABAN DALEI	P	P	P	P	P	P	P	P	P	P
18	2021289075	DINESH SHARMA	P	P	P	P	P	P	P	P	P	P
19	2021289076	DURGA PRASAD BHAL	P	P	P	P	P	P	P	P	P	P
20	2021289079	SWAISTIK PRUSTY	P	P	P	P	P	P	P	P	P	P
21	2021289078	SAGAR KUMAR YADAB	P	P	P	P	P	P	P	A	P	P
22	1901289393	ASWINI KUMAR SAHU	P	P	P	P	P	P	P	P	P	P
23	1901289394	BIKASH JHANKAR	P	P	P	P	A	P	P	P	P	P
24	1901289395	HARSH PASWAN	P	P	P	P	P	P	P	P	P	P
25	2021289067	AYUSH HALI	P	P	P	P	P	P	P	P	P	P
26	2021289071	SANKET ACHARYA	P	P	P	A	P	P	P	P	P	P

Sambit Mohanty
Signature of the Teacher

Signature of the 01/06/22

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Principal
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Bhubaneswar-751024

Semester-

Trident Academy of Technology, Bhubaneswar

Month Year- 8/6 June, 22

Subject/Code- Autocad for Degree Attendance Sheet

Branch- Mechanical

Name of Teacher- Sambit Mohanty

Section

SL. NO	Reg.Number	NAME	8/6
1	1901289391	ABHINASH JENA	P
2	1901289392	AMIT GHOSAL	P
3	1901289397	MANMOHAN MAHANTA	P
4	1901289399	PRABHU PRABINA SWAIN	A
5	1901289400	PRABIN KUMAR BISOYI	P
6	1901289401	RAJESH KUMAR PRADHAN	P
7	1901289402	RAJESH KUMAR SAMAL	P
8	1901289403	RASHMIRANJAN DAS	P
9	1901289404	SANGRAM PRADHAN	P
10	1901289405	UTKARSH	P
11	2021289066	ABHISHEK RAY	P
12	2021289068	BALARAM SWAIN	P
13	2021289070	MANISH KUMAR NAYAK	P
14	2021289072	SOURESH CHATTERJEE	P
15	2021289073	ABHISHEK MOHANTY	P
16	2021289077	PRATYUSH KUMAR MOHANTY	A
17	2021289074	BRUNDABAN DALEI	P
18	2021289075	DINESH SHARMA	P
19	2021289076	DURGA PRASAD BHAL	P
20	2021289079	SWAISTIK PRUSTY	P
21	2021289078	SAGAR KUMAR YADAB	P
22	1901289393	ASWINI KUMAR SAHU	P
23	1901289394	BIKASH JHANKAR	P
24	1901289395	HARSH PASWAN	P
25	2021289067	AYUSH HALI	P
26	2021289071	SANKET ACHARYA	P

Sambit Mohanty
Signature of the Teacher

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Principal
Trident Academy of Technology
Bhubaneswar

Signature of the HOD 8/6/22

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 16.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering 3D Modeling and Design through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 15.09.2022, we are planning to start an add on course "Mastering 3D Modeling and Design through Guided Problem Solving" from 27.09.2022. The objective of the course is to provide foundational knowledge of 3D modeling and design principles for our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, MECH)

HOD
Mechanical Engineering

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Bhubaneswar-751024

SYLLABUS

Mastering 3D Modeling and Design through Guided Problem Solving

Total Lecture Periods: 40hrs

Course Objectives:

This course aims to enhance students' proficiency in 3D modeling and design by using guided problem-solving exercises. Students will learn the fundamentals of 3D modeling, rendering, and animation, enabling them to design complex structures and visualize ideas for engineering, architecture, and multimedia applications.

MODULE-I: Introduction to 3D Modeling [12 periods]

- **Topics:** Basics of 3D design, coordinate systems, and 3D modeling tools (e.g., Blender, Maya).

MODULE-II: Mesh Modeling and Texturing [8 periods]

- **Topics:** Mesh creation, surface modeling, texturing, UV mapping, and material properties.

MODULE-III: Rendering and Lighting Techniques [10 periods]

- **Topics:** Introduction to rendering, lighting setups, camera perspectives, and scene composition.

MODULE-IV: Advanced Applications in 3D Design [10 periods]

- **Topics:** Animation basics, rigging, dynamic simulations, and case studies on real-world projects.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand the basics of 3D modeling tools and techniques.
CO2: Create and manipulate 3D meshes and apply textures effectively.
CO3: Develop realistic renderings using proper lighting and material properties.
CO4: Create simple animations and apply rigging to 3D models.

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CO5: Work on real-world design projects and present 3D concepts.
CO6: Collaborate on team-based projects to design and render 3D environments.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. Introducing Autodesk Maya by Dariush Derakhshani
2. Blender Foundations by Roland Hess

Other Sources:

- Online tutorials and courses (Blender Guru, LinkedIn Learning)
- Free online resources and 3D model repositories

Diptiranjan Panda

Dipti Ranjan Panda

(Course Instructor)

(HOD,MECH)

HOD
Mechanical Engineering

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SCHEDULE

Mastering 3D Modeling and Design through Guided Problem Solving

Sl No	Date	Time	Course Content
1	27.09.2022	3:00 PM-6:00 PM	Introduction to 3D Design
2	28.09.2022	3:00 PM-6:00 PM	Exploring 3D Modeling Tools
3	29.09.2022	3:00 PM-6:00 PM	Mesh Creation Techniques
4	30.09.2022	3:00 PM-6:00 PM	Surface Modeling Essentials
5	01.10.2022	3:00 PM-6:00 PM	Texturing and Material Properties
6	04.10.2022	3:00 PM-6:00 PM	Rendering Basics
7	05.10.2022	3:00 PM-6:00 PM	Lighting Techniques in 3D
8	06.10.2022	3:00 PM-6:00 PM	Scene Composition and Camera Perspectives
9	07.10.2022	3:00 PM-6:00 PM	Animation and Rigging Fundamentals
10	08.10.2022	3:00 PM-6:00 PM	Lighting Techniques in 3D
11	10.10.2022	3:00 PM-6:00 PM	Scene Composition and Camera Perspectives
12	11.10.2022	3:00 PM-6:00 PM	Animation and Rigging Fundamentals
13	12.10.2022	3:00 PM-6:00 PM	Lighting Techniques in 3D
14	13.10.2022	5:00 PM-6:00 PM	Assessment

Dipti ranjan Panda

Dipti Ranjan Panda

(Course Instructor)

(HOD,MECH)

HOD
Mechanical Engineering

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:18.09.2019

This is to inform all the students of B. Tech Students that the department of Mechanical will start an add-on course on "3D Modeling and Design" from 27.09. 2022.Intersted students must register on or before 23.09. 2022.The details of the course are as follows:

- Course name: Mastering 3D Modeling and Design through Guided Problem Solving
- Instructor name: Dipti Ranjan Panda
- Registration Contact: 9438746465

Principal 18/9/2019

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 26.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Respected Sir,

Subject: Mastering 3D Modeling and Design through Guided Problem Solving

Respected Sir,

We are going to start a course on " Mastering 3D Modeling and Design through Guided Problem Solving " from 27.09.2022 and a total of 50 Students have enrolled for this course. This is for your kind information.

Diptiranjan Panda

Dipti Ranjan Panda

(Course Instructor)

(HOD,MECH)

HOD
Mechanical Engineering

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10

Time:30minutes
Date:13.09.2022

3D
ASSESSMENT

Name Of the Student: Rohan Mantri
Regd No: 1901289401

7/10

All Questions Compulsory

Q1: What does "3D" stand for?
A) Three Dimensions B) Three Directions C) Three Degrees D) Triple Design

Q2: Which of the following software is commonly used for 3D modeling?
A) Blender B) MS Paint C) Excel D) Notepad

Q3: What is the primary advantage of 3D modeling?
A) Creating realistic visual representations B) Slowing down the design process
C) Increasing storage space unnecessarily D) Reducing accuracy in designs

Q4: Which coordinate system is used in 3D modeling?
A) XYZ coordinate syste B) XY coordinate system
C) Binary coordinate system D) Polar coordinate system

Q5: What is the process of creating a 3D object from a 2D shape called?
A) Extrusion B) Filleting C) Scaling D) Offsetting

Q6: What is the purpose of rendering in 3D design?
A) To generate realistic images from 3D models B) To distort 3D objects
C) To delete unnecessary models D) To create 2D sketches

Q7: Which file format is commonly used for 3D printing?
A) STL B) DOCX C) PNG D) TXT

Q8: What is the role of texture mapping in 3D design?
A) To apply surface details and colors to 3D models B) To increase file size
C) To make models transparent D) To remove edges from a model

Q9: What does the term "polygon count" refer to in 3D modeling?
A) The number of faces in a 3D model B) The number of colors used
C) The total number of files in a project D) The lighting quality of a scene

Q10: Which of the following is a key step in 3D animation?
A) Riggin B) Spelling correction C) Grammar check D) Text formatting

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: DIPTIRANJAN PANDA **Month/Year:** Sep/2022

Subject Code: **Branch:**

Subject: Mastering 3D modelling and Design through Guided Problem Solving

Sl. No	REGD NO	NAME	27/09	28/09	29/09	30/09	01/10	04/10	05/10	06/10	07/10	08/10
1	1901289401	Rohan Marik	1	2	3	4	5	6	7	8	9	10
2	1901289377	PUNIT KUMAR DAS	1	2	X	3	4	5	6	7	X	8
3	1901289402	Arijita Ray	1	2	3	4	5	6	7	8	9	10
4	1901289026	ARDHENDU SEKHAR BISWAL	1	2	3	4	5	6	7	8	9	10
5	1901289009	A SOHAN KUMAR SUBUDHI	1	X	2	3	4	5	6	7	X	8
6	1921289001	ABANTIKA NAYAK	1	2	3	4	5	6	7	8	9	10
7	1921289002	ABHISEK BEHERA	1	2	3	4	5	6	7	8	9	10
8	1921289003	ABHISHEK GOCHHAYAT	1	2	3	4	5	6	X	7	X	8
9	1921289004	ADITYA ASHUTOSH NARAYAN	1	2	3	4	X	5	6	7	8	9
10	1901289010	AJAY PRATAP SINGH	1	2	3	4	5	6	7	8	9	10
11	1921289005	ANINDITA SARANGI	1	2	3	4	5	6	7	8	9	10
12	1901289011	ANKIT ROUT	1	2	3	4	X	5	6	7	8	9
13	1921289006	ANKITA DAS	1	2	3	4	5	6	7	8	9	10
14	1901289012	ARVIND KUMAR	1	2	3	4	5	6	7	8	9	10
15	1921289007	BHARATENDU NAYAK	1	2	3	4	5	6	7	8	9	10
16	1901289013	BHESAJ KUMAR SAHU	1	2	X	3	4	5	6	7	8	9
17	1921289008	BISWAJIT BISWAL	1	2	3	4	5	6	7	8	9	10
18	1921289009	CHINMAYA BISOI	1	2	3	X	4	5	6	7	8	10
19	1921289010	GOURI RANI	1	2	3	4	5	6	7	8	9	10
20	1921289011	HIMANSHU SEKHAR BARIK	1	2	3	4	5	6	7	8	9	10
21	1901289014	JANGYA PRAKASINI ROUT	1	2	3	X	4	5	6	7	8	9
22	1901289015	KALINGA KETAN KRUSHNA PRASAD JENA	1	2	3	4	5	6	7	8	9	10
23	1901289016	KRISHNA KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
24	1821202016	MAUSUMI MOHAPATRA	1	2	3	X	4	5	6	7	8	9
25	1921289012	MONALISHA PRIYADARSHINI	1	2	3	4	5	6	7	8	9	10
26	1901289017	NIKHIL KUMAR PRAMANIK	1	2	3	4	5	6	7	8	9	10
27	1921289013	NIRUTA JENA	1	2	3	X	4	5	6	7	8	9
28	1901289018	NISHITA PANDA	1	2	3	4	5	6	7	8	9	10
29	1901289019	NITISH KUMAR MOHANTY	1	2	3	4	5	6	7	8	9	10
30	1921289014	PADMAJA GHOSH	1	2	X	3	4	5	6	7	8	9
31	1901289020	PUJAMAYEE PARIDA	1	2	3	4	5	6	7	8	9	10
32	1921289015	SADASIBA SOREN	1	2	3	4	5	6	7	8	9	10

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33	1901289021	SAHIL BALASAMANTA	1	2	X	3	4	5	6	7	8	9	
34	1921289016	SARADA PRASAD JENA	1	2	3	4	5	6	7	8	9	10	
35	1901289027	SASWATI SWAIN	1	2	X	3	4	5	6	7	8	9	
36	1921289017	SATYA PRATIK PATRA	1	2	3	4	5	X	6	7	8	9	
37	1901289022	SHATABDI MOHANTY	1	2	3	4	5	6	7	8	9	10	
38	1921289018	SHREEBASTAB SWAIN	1	X	2	3	4	5	6	7	8	9	
39	1921289019	SOMYA RANI SAHOO	1	2	3	4	5	6	7	8	9	10	
40	1901289023	SRITAM DEHURY	1	2	3	4	5	6	7	8	9	10	
41	1921289020	SUBHADARSINI MOHAPATRA	1	2	3	4	5	6	7	8	9	10	
42	1901289024	SUBHAM NANDA	1	2	3	4	5	6	7	8	9	10	
43	1921289021	SUBRATA KUMAR JENA	1	2	3	4	5	6	7	8	9	10	
44	1901289025	SUDAN SINGH	1	2	3	4	5	6	7	8	9	10	
45	1921289022	SUSMITA JENA	1	2	3	4	5	6	7	8	9	10	
46	1901289026	SWAPNAM SOURAV DALAI	1	2	3	X	4	5	6	7	8	9	
47	1901289027	ASHREETA MOHANTY	1	2	X	3	4	5	6	7	8	9	
48	1921289023	TANMAY KUMAR BHUYAN	1	2	3	4	5	6	7	8	9	10	
49	1901289042	ALAKANANDA SAHOO	1	2	3	4	5	X	6	7	8	9	
50	1901289043	ALKA MAHARATHA	1	2	3	4	5	6	7	8	9	10	

Dipti ranjan Panda

Signature of Teacher

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Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: DIPTIRANJAN PANDA **Month/Year:** Sep/2022

Subject Code: **Branch:**

Subject: Mastering 3D Modelling and Design through guided Problem Solving.

Sl. No	REGD NO	NAME	10/10	11/10	12/10	13/10						
1	1901289401	Rohan Marik	11	12	13	14						
2	1901289377	PUNIT KUMAR DAS	09	10	11	12						
3	1901289402	Arijita Ray	11	12	13	14						
4	1901289026	ARDHENDU SEKHAR BISWAL	11	12	13	14						
5	1901289009	A SOHAN KUMAR SUBUDHI	09	X	10	11						
6	1921289001	ABANTIKA NAYAK	11	12	13	14						
7	1921289002	ABHISEK BEHERA	11	12	13	14						
8	1921289003	ABHISHEK GOCHHAYAT	09	10	X	11						
9	1921289004	ADITYA ASHUTOSH NARAYAN	10	11	12	13						
10	1901289010	AJAY PRATAP SINGH	11	12	13	14						
11	1921289005	ANINDITA SARANGI	11	12	13	14						
12	1901289011	ANKIT ROUT	10	11	12	13						
13	1921289006	ANKITA DAS	11	12	13	14						
14	1901289012	ARVIND KUMAR	11	12	13	14						
15	1921289007	BHARATENDU NAYAK	11	12	13	14						
16	1901289013	BHESAJ KUMAR SAHU	10	X	11	12						
17	1921289008	BISWAJIT BISWAL	11	12	13	14						
18	1921289009	CHINMAYA BISOI	11	12	13	14						
19	1921289010	GOURI RANI	11	12	13	14						
20	1921289011	HIMANSHU SEKHAR BARIK	11	12	13	14						
21	1901289014	JANGYA PRAKASINI ROUT	10	11	12	13						
22	1901289015	KALINGA KETAN KRUSHNA PRASAD JENA	11	12	13	14						
23	1901289016	KRISHNA KUMAR SINGH	11	12	13	14						
24	1821202016	MAUSUMI MOHAPATRA	10	11	12	13						
25	1921289012	MONALISHA PRIYADARSHINI	11	12	13	14						
26	1901289017	NIKHIL KUMAR PRAMANIK	11	12	13	14						
27	1921289013	NIRUTA JENA	10	11	12	13						
28	1901289018	NISHITA PANDA	11	X	12	13						
29	1901289019	NITISH KUMAR MOHANTY	11	12	13	14						
30	1921289014	PADMAJA GHOSH	10	11	12	13						
31	1901289020	PUJAMAYEE PARIDA	11	12	13	14						
32	1921289015	SADASIBA SOREN	11	12	13	14						

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33	1901289021	SAHIL BALASAMANTA	10	11	12	13						
34	1921289016	SARADA PRASAD JENA	11	12	X	13						
35	1901289027	SASWATI SWAIN	10	11	12	13						
36	1921289017	SATYA PRATIK PATRA	10	11	12	13						
37	1901289022	SHATABDI MOHANTY	11	12	13	14						
38	1921289018	SHREEBASTAB SWAIN	10	11	12	13						
39	1921289019	SOMYA RANI SAHOO	11	12	13	14						
40	1901289023	SRITAM DEHURY	11	12	13	14						
41	1921289020	SUBHADARSINI MOHAPATRA	11	12	13	14						
42	1901289024	SUBHAM NANDA	11	12	13	14						
43	1921289021	SUBRATA KUMAR JENA	11	12	13	14						
44	1901289025	SUDAN SINGH	11	12	13	14						
45	1921289022	SUSMITA JENA	10	11	12	13						
46	1901289026	SWAPNAM SOURAV DALAI	10	11	12	13						
47	1901289027	ASHREETA MOHANTY	10	11	12	13						
48	1921289023	TANMAY KUMAR BHUYAN	11	12	13	14						
49	1901289042	ALAKANANDA SAHOO	10	11	12	13						
50	1901289043	ALKA MAHARATHA	9	10	11	12						

Diptiranjan Pande

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:30.08.2022

To,
The Principal
Trident Academy of Technology,
Bhubaneswar

Sub: Permission to start certificate course in "Mastering MATLAB Programming through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on 29.08.2022, we are planning to start a course "Mastering MATLAB Programming through Guided Problem Solving" from 07.09.2022. The objective of the course is to give fundamental knowledge of programming, numerical computing, and data visualization to our students. The course duration and schedule are attached for your perusal.

Thanking You

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

SYLLABUS

Mastering MATLAB Programming through Guided Problem Solving

Total Lecture Periods: 40hrs

Course Objectives:

This course aims to enhance students proficiency in MATLAB programming through guided problem-solving exercises. It provides the skills to perform numerical computations, data analysis, and graphical visualizations while solving real-world engineering and scientific problems.

MODULE-I: Introduction to MATLAB Programming [10 periods]

- **Topics:** Overview of MATLAB, environment setup, variables, data types, and basic operations.

MODULE-II: Data Analysis and Visualization [10 periods]

- **Topics:** Handling datasets, plotting 2D and 3D graphs, and using toolboxes for data processing.

MODULE-III: Numerical Computing [10 periods]

- **Topics:** Solving linear algebra problems, differential equations, optimization, and integration using MATLAB.

MODULE-IV: Applications and Case Studies [10 periods]

- **Topics:** Real-world applications of MATLAB in signal processing, control systems, and image processing.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand Matlab basics and apply them to problem-solving.
CO2: Perform data analysis and create effective visualizations.
CO3: Use Matlab to solve numerical problems in engineering and science.
CO4: Develop and debug Matlab scripts for complex computations.
CO5: Integrate Matlab applications with real-world scenarios.
CO6: Collaborate on group projects utilizing Matlab for simulations and analysis.

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Bhubaneswar-751024

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. "MATLAB for Engineers" by Holly Moore
2. "MATLAB: A Practical Introduction to Programming and Problem Solving" by Stormy Attaway

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

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Trident Academy of Technology
Bhubaneswar-751024

SCHEDULE

Mastering MATLAB Programming through Guided Problem Solving

Sl No	Date	Time	Course Content
1	07.09.2022	3:00 PM-6:00 PM	Overview of Matlab and environment setup
2	08.09. 2022	3:00 PM-6:00 PM	Variables, data types, and basic operations
3	09.09. 2022	3:00 PM-6:00 PM	Handling datasets and data processing
4	10.09. 2022	3:00 PM-6:00 PM	Plotting 2D and 3D graphs in Matlab
5	12.09. 2022	3:00 PM-6:00 PM	Solving linear algebra problems and differential equations
6	13. 09. 2022	3:00 PM-6:00 PM	Optimization using Matlab
7	14. 09. 2022	3:00 PM-6:00 PM	Integration using Matlab
8	15. 09. 2022	3:00 PM-6:00 PM	Real-world applications in Matlab
9	16. 09. 2022	3:00 PM-6:00 PM	Matlab applications
10	17. 09. 2022	3:00 PM-6:00 PM	Optimization and integration using Matlab
11	19. 09. 2022	3:00 PM-6:00 PM	Applications of Matlab in signal processing
12	20. 09. 2022	3:00 PM-6:00 PM	Real-world applications in control systems
13	21. 09. 2022	3:00 PM-6:00 PM	Matlab applications in differential equations

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Sl No	Date	Time	Course Content
14	22. 09. 2022	5:00 PM-6:00 PM	Assessment

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

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Electronics & Telecommunication Engg.

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Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:31.08.2022

This is to inform all B. Tech students that the department of ETC will start an add-on course on " MATLAB Programming " starting from 07.09.2022. Interested students must register by 05.09.2022. The course details are as follows:

- Course name: Mastering MATLAB Programming through Guided Problem Solving
- Instructor name: Prasanta Mohanty
- Concerned person for Registration: Prasant Mohanty

Principal

Principal
Trident Academy of Technology
Bhubaneswar-751024

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(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date:06.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Addon Course "Mastering MATLAB Programming through Guided Problem Solving ".

Respected Sir,

We are going to start a course on " Mastering MATLAB Programming through Guided Problem Solving " from 07.09.2022 and a total of 30 Students have enrolled for this course. This is for your kind information.

Prasant Mohanty

(Course Instructor)

(HOD, ETC)

HOD
Electronics & Telecommunication Engg.

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Principal
Trident Academy of Technology
Bhubaneswar-751024

NESWAR

Time:30minutes

Date:22.09.2022

roblem Solving

7/10

sed for?
lations

B) Word processing
D) Web development

ed in MATLAB?
language B) Python C) Java D) C++

mmand used to create a matrix in MATLAB?
rackets) B) { } (Curly Brackets)
e Brackets) D) " " (Quotation Marks)

ich function is used to generate a 2D plot in MATLAB?
ot() B) graph() C) display() D) print()

Q5: What does the 'clc' command do in MATLAB?
A) Clears the Command Window B) Closes MATLAB
C) Saves the file D) Runs a simulation

Q6: What is the primary purpose of Simulink in MATLAB?
A) Model-based design and simulation B) Text formatting
C) Data entry D) File management

Q7: Which operator is used for element-wise multiplication in MATLAB?
A) * B) * C) / D) +

Q8: What is the role of the "fprintf" function in MATLAB?
A) Displays formatted output B) Creates a new figure
C) Closes all windows D) Runs a script

Q9: What does the "linspace" function do?
A) Generates linearly spaced vectors
B) Deletes variables
C) Opens a new script
D) Runs an infinite loop

Q10: What is the purpose of the "hold on" command in MATLAB?
A) To retain multiple plots on a figure
B) To pause execution
C) To close MATLAB
D) To remove grid lines

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:22.09.2022

Mastering MATLAB through Guided Problem Solving
ASSESSMENT

Name Of the Student: Arpita Dash

Regd No: 1901289223

7/10

All Questions Compulsory

Q1: What is MATLAB primarily used for?
A) Numerical computing and simulations
B) Word processing
C) Video editing
D) Web development

Q2: Which language is used in MATLAB?
A) MATLAB scripting language B) Python C) Java D) C++

Q3: What is the command used to create a matrix in MATLAB?
A) [ ] (Square Brackets)
B) { } (Curly Brackets)
C) < > (Angle Brackets)
D) " " (Quotation Marks)

Q4: Which function is used to generate a 2D plot in MATLAB?
A) plot() B) graph() C) display() D) print()

Q5: What does the 'clc' command do in MATLAB?
A) Clears the Command Window
B) Closes MATLAB
C) Saves the file
D) Runs a simulation

Q6: What is the primary purpose of Simulink in MATLAB?
A) Model-based design and simulation
B) Text formatting
C) Data entry
D) File management

Q7: Which operator is used for element-wise multiplication in MATLAB?
A) * B) * C) / D) +

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D) Runs an infinite loop

Q10: What is the purpose of the "hold on" command in MATLAB?
A) To retain multiple plots on a figure
B) To pause execution
C) To close MATLAB
D) To remove grid lines

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Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prasanta Ku. Mohanty **Month/Year:** Aug-2022

Subject Code: **Branch:**

Subject: programming with mastering MATLAB Guided problem solving

Sl. No	REGD NO	NAME	7/9	8/9	9/9	10/9	12/9	13/9	14/9	15/9	16/9	17/9
1	1901289221	ANJALI KISAN	1	2	3	4	5	X	6	7	8	9
2	1901289223	ARPITA DASH	1	2	3	4	5	6	7	8	9	10
3	1901289224	ASHISH RANJAN PRADHAN	1	2	X	3	X	4	5	6	X	7
4	1901289225	ASHISH SENAPATI	1	2	3	4	5	6	7	8	9	10
5	1901289226	BALARAM SAHOO	1	X	2	3	4	5	6	7	8	9
6	1901289227	BARSHARANI MOHANTY	1	2	3	X	4	5	6	7	8	9
7	1901289228	BIKASH RANJAN NAYAK	1	2	3	4	5	X	6	7	8	9
8	1901289229	BINAYA KUMAR MOHANTY	1	2	3	4	5	6	7	8	9	10
9	1901289230	CHINMAY KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
10	1901289231	DIBYAJYOTI SAHOO	1	2	3	4	5	6	7	8	9	10
11	1901289232	DIPANKAR DUTTA	1	2	3	4	5	6	7	8	X	9
12	1901289233	HARA PRASAD PATRA	1	2	X	3	4	5	6	7	8	9
13	1901289234	HAREKRUSHNA SAHOO	X	1	2	3	4	5	6	7	8	9
14	1901289235	HIMANSHUSHEKHAR DINBANDHU SWAIN	X	1	2	3	4	5	6	7	8	9
15	1901289236	JYOTI PRAKASH PATRA	1	2	3	4	5	X	X	X	6	7
16	1901289237	JYOTIPRAKASH JENA	1	2	3	4	5	6	7	8	9	10
17	1901289238	KAPURAMANI SOREN	1	2	3	4	5	6	7	8	9	10
18	1901289240	LOPAMUDRA PRADHAN	X	1	2	3	4	5	6	7	8	9
19	1901289241	M. SAI SIMRON	1	2	3	4	5	6	7	8	X	X
20	1901289242	MAHESH BEHERA	1	X	2	3	4	5	6	7	X	X
21	1901289243	MONALISHA BHUYAN	1	2	3	4	5	X	6	7	8	X
22	1901289244	MUKESH KUMAR MAHARANA	1	2	3	4	5	6	7	8	9	10
23	1901289245	NIKHIL KUMAR RAY	1	2	3	4	5	X	6	7	8	9
24	1901289246	OMPRAKASH SAHOO	1	2	3	4	5	6	X	7	8	9
25	1901289247	PRAGYAN PRAVA SWAIN	1	2	X	3	4	5	6	7	8	9
26	1901289248	PRASUN MUKHERJEE	X	1	X	2	3	4	5	6	7	X
27	1901289249	RAJAT KUMAR DWARI	X	1	2	3	4	5	6	7	8	9
28	1901289250	RANJIT KUMAR PATRA	1	2	3	4	5	6	7	8	9	10
29	1901289251	ROMIT RANJAN RAY	1	2	3	4	5	6	7	X	8	9
30	1901289252	SAGAR GAUTAM PANDA	1	2	3	4	X	5	6	7	8	X

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Prasant. Ku. mohanty **Month/Year:** Aug-2022

Subject Code: **Branch:**

Subject: masfering MATLAB programming through Real time problem solving

Sl. No	REGD NO	NAME	19/9	20/9	21/9							
1	1901289221	ANJALI KISAN	10	11	X							
2	1901289223	ARPITA DASH	X	11	12							
3	1901289224	ASHISH RANJAN PRADHAN	8	9	10							
4	1901289225	ASHISH SENAPATI	11	12	13							
5	1901289226	BALARAM SAHOO	10	11	X							
6	1901289227	BARSHARANI MOHANTY	X	10	11							
7	1901289228	BIKASH RANJAN NAYAK	X	10	11							
8	1901289229	BINAYA KUMAR MOHANTY	11	12	13							
9	1901289230	CHINMAY KUMAR PANDA	11	12	13							
10	1901289231	DIBYAJYOTI SAHOO	10	11	12							
11	1901289232	DIPANKAR DUTTA	X	10	11							
12	1901289233	HARA PRASAD PATRA	10	11	12							
13	1901289234	HAREKRUSHNA SAHOO	10	11	12							
14	1901289235	HIMANSHUSHEKHAR DINBANDHU SWAIN	X	10	11							
15	1901289236	JYOTI PRAKASH PATRA	8	9	10							
16	1901289237	JYOTIPRAKASH JENA	11	11	12							
17	1901289238	KAPURAMANI SOREN	11	12	13							
18	1901289240	LOPAMUDRA PRADHAN	9/10	11	X							
19	1901289241	M. SAI SIMRON	9	10	11							
20	1901289242	MAHESH BEHERA	X8	9	10							
21	1901289243	MONALISHA BHUYAN	9	10	11							
22	1901289244	MUKESH KUMAR MAHARANA	11	12	13							
23	1901289245	NIKHIL KUMAR RAY	10	11	12							
24	1901289246	OMPRAKASH SAHOO	X	10	X							
25	1901289247	PRAGYAN PRAVA SWAIN	X	10	11							
26	1901289248	PRASUN MUKHERJEE	8	9	10							
27	1901289249	RAJAT KUMAR DWARI	10	11	12							
28	1901289250	RANJIT KUMAR PATRA	11	X	12							
29	1901289251	ROMIT RANJAN RAY	10	11	12							
30	1901289252	SAGAR GAUTAM PANDA	9	10	11							

Signature of Teacher

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 03.11.2022

To,

The Principal

Trident Academy of Technology,

Patia, Bhubaneswar

Subject: Permission to start a certificate course on "Learning through NPTEL: Enhancing Knowledge through Online Education" for B. Tech, MCA & MBA students.

Respected Sir,

As per the departmental meeting held on 02.11.2022, we propose to introduce a certificate course titled "Learning through NPTEL: Enhancing Knowledge through Online Education" starting from 09.11.2022. This course aims to introduce B. Tech students to the NPTEL platform, guide them on how to register for courses, and use online learning resources effectively to enhance their technical knowledge. The course duration, schedule, and syllabus are attached for your perusal and approval.

Thanking You,

(HOD CSE)

HOD
Computer Science Engg.

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Learning through NPTEL: Enhancing Knowledge through Online Education

Total Lecture Periods: 40 hrs

Course

Objectives:
This course aims to provide students with an introduction to the NPTEL platform, which offers a wide range of online courses from IITs, IISc, and other premier institutes. Students will be guided on how to register for NPTEL courses, understand course structures, access learning materials, and prepare for assignments and exams. This course also aims to promote lifelong learning and critical thinking by encouraging students to explore specialized topics in technology and engineering.

MODULES

Module-I: Introduction to NPTEL and Online Learning [10 periods]

- Overview of NPTEL: A platform for online education and certification
- Types of courses available on NPTEL: Engineering, Science, Humanities, etc.
- How to register for NPTEL courses: Step-by-step guide
- Exploring course formats: Video lectures, assignments, quizzes, and exams
- Introduction to NPTEL certifications and their value in academic and professional careers

Module-II: Navigating the NPTEL Platform [10 periods]

- How to access and explore NPTEL courses on the portal
- Understanding the syllabus and structure of an NPTEL course
- How to access lecture videos, transcripts, and supplementary materials
- Utilizing the discussion forums and peer interaction for better understanding
- Downloading and organizing course materials for offline access

Module-III: Learning Techniques and Assignment Management [10 periods]

- Time management and creating a study plan for NPTEL courses
- How to approach video lectures and assignments effectively
- Working on assignments: Submission deadlines, best practices
- Taking quizzes and tests: Strategies for success
- Participating in online discussions and peer review
- Self-assessment and tracking progress

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Module-IV: Advanced Features and Certification [10 periods]

- How to earn NPTEL certificates and their significance
- Understanding exam structures and preparation tips for NPTEL exams
- How to use NPTEL certificates in career development
- Case studies: Successful use of NPTEL certifications for industry and academic applications
- Introduction to NPTEL for Final Year Projects: Using NPTEL knowledge in engineering projects
- Promoting self-directed learning through NPTEL

Course Outcomes

Upon successful completion of the course, students will be able to:

- **CO1**: Understand the structure and features of the NPTEL platform.
- **CO2**: Register and access relevant courses offered by NPTEL in their field of study.
- **CO3**: Effectively utilize online learning resources (video lectures, assignments, quizzes).
- **CO4**: Manage time and study independently using NPTEL's self-paced learning model.
- **CO5**: Participate in NPTEL discussions and collaborate with peers to enhance learning.
- **CO6**: Earn NPTEL certificates and use them to complement their academic and professional credentials.

Evaluation Process

1. **Attendance**: Minimum 75% attendance in lectures and discussions is mandatory.
2. **Qualifying Marks**: A minimum of 50% marks is required to pass the course.
3. **Certification**: Certificates will be awarded upon successful completion of the course and its assessments.
4. **Course Assignments and Discussions**: Active participation in assignments, quizzes, and course discussions will contribute to evaluation.

Mohini Prasad Mishra

Course Instructor

(HOD CSE)

HOD
Computer Science Engg.

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SCHEDULE

Learning through NPTEL: Enhancing Knowledge through Online Education

Sl No	Date	Time	Course Content
1	09.11.2022	3:00PM-6:00PM	Overview, types of courses, and registration process.
2	10.11.2022	3:00PM-6:00PM	Video lectures, assignments, quizzes, exams, and certifications.
3	11.11.2022	3:00PM-6:00PM	Accessing courses, syllabus, and supplementary materials.
4	12.11.2022	3:00PM-6:00PM	Peer interaction and learning enhancement.
5	14.11.2022	3:00PM-6:00PM	Organizing and accessing offline resources.
6	15.11.2022	3:00PM-6:00PM	Creating effective study plans for NPTEL courses.
7	17.11.2022	3:00PM-6:00PM	Submission deadlines, best practices, and success strategies.
8	18.11.2022	3:00PM-6:00PM	Engaging with peers and tracking progress.
9	19.11.2022	3:00PM-6:00PM	Career and academic value of certifications.
10	21.11.2022	3:00PM-6:00PM	Leveraging NPTEL for projects and professional growth.
11	22.11.2022	3:00PM-6:00PM	Study plans for NPTEL courses
12	23.11.2022	3:00PM-6:00PM	Study plans for NPTEL courses
13	24.11.2022	3:00PM-6:00PM	Accessing courses, success strategies.
14	25.11.2022	5:00PM-6:00PM	Peer interaction and learning enhancement.

Mohini Prasad Mishra
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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Bhubaneswar-751024

TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date-04/11/2022

This is to inform all the students of B. Tech, MCA & MBA students that the department of CSE will start an add-on course on " Learning through NPTEL: Enhancing Knowledge through Online Education " starting from 09.11. 2022. All interested students are required to register on or before 07.11.2022.

Course Name: Learning through NPTEL

Instructor Name: Mohini Prasad Mishra

Registration Contact: Mohini Prasad Mishra

Principal
04/11/22

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Principal
Trident Academy of Technology
Bhubaneswar-751024

Date: 08.11.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: Number of Students Enrolled for the Add-on Course on "Learning through NPTEL: Enhancing Knowledge through Online Education".

Respected Sir,

We are going to start an add-on course on " Learning through NPTEL: Enhancing Knowledge through Online Education " from 09.11.2022 and a total of 320 Students have enrolled for this course. This is for your kind information.

Mohini Prasad Mishra
(Course Instructor)

(HOD,CSE)

HOD
Computer Science Engg.

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ENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:25.11.2022

NPTEL

ASSESSMENT

09/10

Name Of the Student: Kajal Sahoo

Regd No: 2106289013

All Questions Compulsory

Q1: What does NPTEL stand for?

A) National Program on Technology Enhanced Learning

B) National Platform for Technical E-Learning

C) New Program for Technical Education and Learning

D) National Portal for Technology and E-Learning

Q2: Which institutions primarily manage the NPTEL platform?

A) IITs and IIMs B) IITs and IISc

C) AICTE and UGC D) NITs and IISc

Q3: What types of courses are available on NPTEL?

A) Only engineering and technology courses

B) Only science and humanities courses

C) Engineering, science, humanities, and management courses

D) Only management and medical courses

Q4: How can students access NPTEL courses?

A) Only through college registration B) By enrolling on the NPTEL website

C) By purchasing a subscription D) Through university recommendation only

Q5: What is the main advantage of obtaining an NPTEL certification?

A) It guarantees a government job B) It enhances career opportunities and academic credentials

C) It replaces the need for a college degree D) It is mandatory for all engineering students

Q6: What is the format of NPTEL course materials?

A) Only video lectures B) Only PDFs and lecture notes

C) Video lectures, assignments, quizzes, and transcripts D) Only practical lab work

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EL final exams typically conducted?

...e B) At designated exam centers

...va-voce D) By submitting research papers

...t is the duration of most NPTEL courses?

...weeks B) 4-12 weeks

...months D) 1 year

Q9: Which feature of NPTEL helps students interact with peers and instructors?

A) Discussion forums B) Recorded lectures

C) Weekly assignments D) Certificate issuance

Q10: How can an NPTEL certificate benefit a student in career development?

A) It acts as a replacement for work experience

B) It provides industry recognition and enhances a resume

C) It guarantees admission to IITs

D) It is mandatory for government jobs

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Mohini Prasad Mishra **Month/Year:** Nov/2022

Subject Code: **Branch:**

Subject: MPTBL

Sl. No	REGD NO	NAME	9/11	10/11	11/11	12/11	14/11	15/11	17/11	18/11	19/11	21/11
1	2106289001	AMIT KUMAR SWAIN	1	X	2	3	4	5	6	7	8	9
2	2106289002	ASHES KUMAR SWAIN	1	2	3	4	5	X	6	7	8	9
3	2106289003	ASHIS KUMAR BISWAL	1	X	2	3	4	5	6	X	7	8
4	2106289004	ASHUTOSH PRADHAN	1	2	3	4	5	6	7	8	9	10
5	2106289005	ASHUTOSH PRADHAN	X	1	2	3	4	5	6	7	8	9
6	2106289006	BEDAPRAKASH PRUSTY	1	2	3	4	5	6	7	8	9	10
7	2106289007	BHARGAVI DASH	1	X	2	3	4	5	6	7	8	9
8	2106289008	DEBABRATA FATHKAR	1	2	3	4	5	6	7	8	9	10
9	2106289009	DEBASHISH SAHU	1	X	2	3	4	5	6	7	8	9
10	2106289011	G ADITYA PRASAD PATRO	1	2	3	4	5	6	7	8	9	10
11	2106289012	GYANASWINEE NAYAK	1	2	3	4	5	6	7	8	9	10
12	2106289013	KAJAL SAHOO	1	2	3	4	5	6	X	7	8	9
13	2106289014	MADHURIMA MAHALA	1	2	3	4	5	6	7	X	8	9
14	2106289015	MADHUSMITA NAYAK	1	X	2	3	4	5	6	7	8	9
15	2106289016	MADHUSMITA NAYAK	1	2	3	4	5	6	A	8	9	10
16	2106289017	MANOJ KUMAR SAHOO	1	X	2	3	4	5	6	7	8	9
17	2106289019	NITISH NAYAK	X	1	2	3	4	5	6	7	8	9
18	2106289020	PRADYUMNA SAHOO	1	2	3	4	5	6	7	8	9	10
19	2106289021	PRATEEKSHYA PATTANAYAK	X	1	3	4	5	6	7	8	9	10
20	2106289022	PRITI PRIYADARSHINI KALO	1	2	3	4	5	6	7	8	9	10
21	2106289023	RAHUL RAMAN BHOL	1	2	3	4	5	6	7	8	9	10
22	2106289024	RAJNI KUMARI LAGURI	X	1	2	3	4	5	6	7	8	9
23	2106289025	ROHAN KUMAR ACHARJYA	1	2	3	4	5	6	7	8	9	10
24	2106289026	RONAK JENA	1	2	3	4	5	6	7	8	9	10
25	2106289027	SAMEER PADHY	1	2	3	4	5	6	7	8	9	10
26	2106289028	SANGITA BEHERA	X	1	2	3	4	5	6	7	8	9
27	2106289029	SHRABANI KUMARI PANDA	1	X	2	3	4	5	6	7	8	9
28	2106289030	SIMRAN NAYAK	1	2	3	4	5	6	7	8	9	10
29	2106289032	SMRUTI REKHA BESHRA	1	2	3	4	5	6	7	8	9	10
30	2106289033	SMRUTIREKHA SWAIN	1	2	3	4	5	6	7	8	9	10
31	2106289034	SOURAV PRASAD DAS	1	X	2	3	4	5	6	7	8	9
32	2106289036	SUBHASHREE SUBHRAJYOTI NAYAK	1	2	3	4	5	6	7	8	9	10

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	REGD NO	NAME	9/10	10/11	11/11	12/11	14/11	15/11	17/11	18/11	19/11	21/11
	2105289013	CHAITANYA LAKRA	1	2	3	X	4	5	6	7	8	9
	2105289014	CHANDAN KUMAR NAYAK	1	X	2	3	4	5	6	7	8	9
	2105289015	CHINMAY SAHOO	1	2	3	4	5	5	6	7	8	9
36	2105289016	DEBASIS TARAI	X	1	2	3	4	X	5	6	7	8
37	2105289017	DEEPAK KUMAR BHUTIA	1	2	3	4	5	6	7	8	9	10
38	2105289018	DEEPAK KUMAR GOUDA	1	2	3	4	5	6	7	8	9	10
39	2105289019	DIBYA JYOTIRMAYA MUKHI	1	2	3	4	5	6	7	8	9	10
40	2105289020	DIBYASUNDAR BEHERA	1	2	X	3	4	5	6	7	8	9
41	2105289021	GEETANJALI MISHRA	1	X	X	2	3	4	5	6	7	8
42	2105289022	IPSITA BEURA	1	2	3	4	5	6	7	8	9	10
43	2105289023	JACHANIKA SETHY	1	X	2	3	4	5	6	7	8	9
44	2105289024	JAGANNATH PALEI	1	2	3	4	5	6	7	8	9	10
45	2105289025	JYOTIRANJAN LENKA	1	2	3	4	4	6	7	8	9	10
46	2105289026	KUMAR CHINMAYA CHANDRAKANTA NAYAK	1	X	2	3	4	5	6	7	8	9
47	2105289027	MANASI BEHERA	1	2	3	4	5	6	7	8	9	10
48	2105289028	MANOJ KUMAR SAHOO	X	1	2	3	4	5	6	7	8	9
49	2105289029	MANORANJAN SATAPATHY	1	2	3	4	5	6	7	8	9	10
50	2105289030	MITALI MANASWINI MOHAPATRA	1	X	2	3	4	5	6	7	8	9
51	2105289031	NIBEDITA BALA	1	2	3	4	5	6	7	8	9	10
52	2105289032	NITISH KUMAR ROUTRAY	1	X	2	3	4	5	6	7	8	9
53	2105289033	PADMA LOCHAN MARNDI	1	2	3	4	5	6	7	8	9	10
54	2105289034	PRADOSH MOHANTY	1	2	3	4	5	6	7	8	9	10
55	2105289035	PRAJNYA PARAMITA OJHA	X	1	2	3	4	5	6	7	8	9
56	2105289036	PRATIVA DUTTA	1	2	3	4	5	6	7	8	9	10
57	2105289037	PRATYUSA PARAMITA SASMAL	1	X	2	3	4	5	6	7	8	9
58	2105289039	PRAVEEN KUMAR	1	2	3	4	5	6	7	8	9	10
59	2105289040	PRIYABRATA NAYAK	1	2	3	4	5	6	7	8	9	10
60	2105289041	PUSPAKANTA SAHOO	1	2	3	4	5	6	7	8	9	10
61	2105289042	RAHUL SATAPATHY	X	1	2	3	4	5	6	7	8	9
62	2105289043	RASHMI RANJAN PANDA	1	2	3	4	5	6	7	8	9	10
63	2105289044	RUDRESWAR RANA	X	1	2	3	4	5	6	7	8	9
64	2105289045	SASMITA PATI	1	2	3	4	5	6	7	8	9	10
65	2105289046	SHAKTI SANKAR BEHERA	1	2	3	4	5	6	7	8	9	10
66	2105289047	SMRUTI RANJITA SAHOO	1	2	3	4	5	6	7	8	9	10
67	2105289048	SMRUTIKANTA SWAIN	1	2	3	4	5	6	7	8	9	10
68	2105289049	SMRUTIPRANGYA SAHOO	1	2	X	3	4	5	6	7	8	9
69	2105289050	SOMYA BHARATI SWAIN	1	2	3	X	4	5	6	7	8	9
70	2105289051	SOURAV BEHURIA	1	X	2	3	4	5	6	7	8	9
71	2105289052	SRISTYSUMAN DASH	1	2	3	4	5	6	7	8	9	10
72	2105289053	SUBHASHREE SUBHASMITA PRADHAN	1	X	3	4	5	6	7	8	9	10

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	GD NO	NAME	9/11	10/11	11/11	12/11	14/11	15/11	17/11	18/11	19/11	21/11
	1901289391	ABHINASH JENA	A	1	2	3	4	5	6	7	8	9
	1901289392	AMIT GHOSHAL	1	A	2	3	A	4	5	6	7	8
	1901289393	ASWINI KUMAR SAHU	1	2	3	4	5	6	7	8	9	10
76	1901289394	BIKASH JHANKAR	1	2	3	4	5	6	7	8	9	10
77	1901289395	HARSH PASWAN	1	A	2	3	4	5	6	7	8	9
78	1901289396	KRISHNA KANTA MURMU	1	A	2	3	4	5	6	7	8	9
79	1901289397	MANMOHAN MAHANTA	1	2	A	3	4	5	6	7	8	9
80	1901289398	MD. SAHIL	1	2	3	4	5	6	7	8	9	10
81	1901289399	PRABHUPRABINA SWAIN	A	1	2	3	4	5	6	7	8	9
82	1901289400	PRABIN KUMAR BISOYI	1	2	3	4	5	6	7	8	9	10
83	1901289401	RAJESH KUMAR PRADHAN	1	2	3	4	5	6	7	8	A	9
84	1901289402	RAJESH KUMAR SAMAL	1	2	3	4	5	6	A	7	8	9
85	1901289403	RASHMI RANJAN DAS	1	2	3	4	5	6	7	8	9	10
86	1901289404	SANGRAM PRADHAN	1	2	3	4	5	6	7	8	9	10
87	1901289405	UTKARSH	1	2	3	4	A	5	6	7	8	9
88	2021289066	ABHISHEK RAY	1	A	2	3	4	5	6	7	8	9
89	2021289067	AYUSH HALI	1	2	3	4	5	6	7	8	9	10
90	2021289068	BALARAM SWAIN	A	1	2	3	4	5	6	7	8	9
91	2021289069	LAXMINARAYAN SWAIN	1	A	2	3	4	5	6	7	8	9
92	2021289070	MANISH KUMAR NAYAK	1	2	3	4	5	6	7	8	9	10
93	2021289071	SANKET ACHARYA	1	2	3	A	4	5	6	7	8	9
94	2021289072	SOURESH CHATTERJEE	1	A	2	3	4	5	6	7	8	9
95	2021289073	ABHISEK MOHANTY	1	2	3	4	5	A	6	7	8	9
96	2021289074	BRUNDABAN DALEI	1	2	3	4	5	6	7	8	9	10
97	2021289075	DINESH SHARMA	1	2	3	4	5	6	7	8	9	10
98	2021289076	DURGA PRASAD BHAL	1	2	3	4	5	6	A	7	8	9
99	2021289077	PRATYUSH KUMAR MOHANTY	A	1	2	3	4	5	6	7	8	9
100	1901289005	RIYA SHARMA	1	2	3	4	5	A	6	7	8	9
101	1901289343	ABHISHEK RANJAN	1	2	3	4	5	6	7	8	9	10
102	1901289344	ABINASH BEHERA	1	2	3	4	5	6	7	8	9	10
103	1901289345	ABINASH KUMAR TRIPATHY	A	1	2	3	4	5	6	7	8	9
104	1901289346	AKASH SAHU	1	2	3	4	5	6	7	8	9	10
105	1901289347	ANKIT MANGARAJ	1	2	3	4	5	A	6	7	8	9
106	1901289348	ANKITA PRUSTY	1	2	A	3	4	5	A	6	7	8
107	1901289349	ANSHU GAUTAM	1	2	3	A	4	5	6	7	8	9
108	1901289351	ASHIS SHARMA	A	1	2	3	4	5	6	7	8	9
109	1901289352	ASHISH KUMAR ROUT	1	A	2	3	4	5	6	7	8	9
110	1901289353	ASHUTOSH ACHARYA	1	2	3	4	5	A	5	6	7	8
111	1901289354	ASIS PATTANAIK	1	2	3	4	5	6	7	8	9	10
112	1901289355	BHOLANATH BARIK	1	2	3	4	5	6	7	8	9	10

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	.EGD NO	NAME	9/11	10/11	11/11	12/11	14/11	15/11	17/11	18/11	19/11	21/11
	1901289356	BISWA RANJAN DAS	1	2	3	X	4	5	6	X	7	8
4	1901289357	BISWAJEET PUTI	1	2	3	4	5	X	6	7	8	9
15	1901289358	BISWAJIT ROUT	1	2	3	4	5	6	7	8	9	10
116	1901289359	BISWAJIT SAMAL	1	2	3	4	5	6	7	8	9	10
117	1901289360	DIBYAJYOTI PATRA	X	1	2	3	4	5	6	7	8	9
118	1901289361	HIMANSU RANJAN MALLICK	1	X	2	3	4	5	6	7	8	9
119	1901289362	KAMAL ACHARYA	1	2	3	4	5	6	7	8	9	10
120	1901289363	KASHISH KUMARI	1	2	3	4	5	6	7	8	9	10
121	1901289364	KISHAN KUMAR MAHARANA	1	2	3	4	5	6	X	7	8	9
122	1901289365	MD FARID RAZZA	1	2	3	4	5	6	7	X	8	9
123	1901289366	MOHIT KUMAR	1	2	3	4	5	6	7	8	9	10
124	1901289367	NAMRATA MOHARANA	X	1	2	3	4	5	6	7	8	9
125	1901289368	NIKHILESH PANI	1	X	2	3	4	5	6	7	8	9
126	1901289369	P KARTHIK KUMAR	1	2	3	4	5	6	X	7	8	9
127	1901289370	PRATYARPITA PATTANAIK	1	2	3	4	5	6	7	8	9	10
128	1901289371	ROSHAN LAL PRAJAPATI	1	2	3	4	5	6	7	8	9	10
129	1901289372	RUMANA BEGUM	1	2	3	4	5	6	7	8	9	10
130	1901289374	SAMIKSHA BARIK	1	2	3	4	5	6	7	8	9	10
131	1901289375	SARBESWAR NAYAK	X	1	2	3	4	5	6	7	8	9
132	1901289376	SAROJ KUMAR RANA	1	X	2	3	4	5	6	7	8	9
133	1901289377	SATRUJIT PANI	1	2	3	4	5	6	7	8	9	10
134	1901289378	SATYAM KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
135	1901289379	SAUMYARANJAN SAHOO	1	2	3	4	5	X	6	7	8	9
136	1901289380	SONALEE PRIYADARSINEE	1	2	3	4	5	6	X	7	8	9
137	1901289381	SUBHAM SAHOO	1	2	3	4	5	6	7	8	9	10
138	1901289382	SUBHAM SUBHRAJIT	1	2	3	4	5	6	7	8	9	10
139	1901289383	SUDHIR KUMAR	1	2	3	4	5	6	7	8	9	10
400	1901289384	SULAGNAA PANI	1	2	3	4	5	6	7	X	8	9
141	1901289385	SUNIL KUMAR PANDA	1	2	3	4	5	6	7	8	X	9
142	1901289386	SUPRAVA ROUTRAY	1	2	X	3	4	5	6	7	8	X
143	1901289387	SWARAJ KUMAR SAHOO	1	2	3	X	4	5	6	7	8	9
144	1901289388	BINAYAK MOHANTY	1	2	3	4	5	6	7	8	9	10
145	1901289389	SOMANYU SAMAL	1	2	3	4	5	6	7	8	9	10
146	1901289390	SUPRIYA SATAPATHY	1	X	2	3	4	5	6	7	8	9
147	2021289064	AMAN KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
148	1901289356	BISWA RANJAN DAS	X	1	2	3	4	5	6	7	8	9
149	1901289357	BISWAJEET PUTI	1	2	3	4	5	6	7	8	9	10
150	1901289358	BISWAJIT ROUT	1	2	3	4	5	6	7	8	9	10
151	1901289359	BISWAJIT SAMAL	X	1	2	3	4	5	6	7	8	9
152	1901289360	DIBYAJYOTI PATRA	1	2	3	4	5	6	7	8	9	10

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	EGD NO	NAME	9/11	10/11	11/11	12/11	14/11	15/11	17/11	18/11	19/11	21/11
	1901289288	ABHIJEET SAHOO	1	2	3	4	5	6	7	8	9	10
4	1901289289	ABHISEK NANDA	1	X	2	3	4	5	6	7	8	9
55	1901289290	ABINASH ROUTRAY	1	2	3	4	5	6	7	8	9	10
156	1901289291	ADITYA NARAYAN DHAR	1	2	3	4	5	6	7	8	9	10
157	1901289292	AMIT SINGH	1	2	3	4	5	6	7	8	9	10
158	1901289293	ANANYA MOHAPATRA	1	2	3	4	5	5	6	7	8	9
159	1901289294	ANIL KUMAR MALLICK	1	2	3	4	5	6	7	8	9	10
160	1901289295	ANKITA PATI	1	2	3	4	5	6	7	8	9	10
161	1901289296	ANKITA PRIYADARSHANI	1	2	3	4	5	6	7	8	9	10
162	1901289297	ANURAG PRADHAN	X	1	2	3	4	5	6	7	8	9
163	1901289298	BIBECHITA SAHOO	1	2	3	4	5	6	7	8	9	10
164	1901289299	BISWAJEET JENA	1	2	3	4	5	6	7	8	9	10
165	1901289300	CHINMAYEE DUTTA	1	X	2	3	4	5	6	7	8	9
166	1901289301	DEBABRATA SI	1	2	3	4	5	6	7	8	9	10
167	1901289302	DEBASHIS NAYAK	1	2	3	4	5	6	7	8	9	10
168	1901289303	DEBASMITA DEY	1	2	3	4	5	6	7	8	9	10
169	1901289304	DIBYA PRAKASH PANDA	1	2	3	4	5	6	7	8	9	10
170	1901289305	GOURAB SAHU	1	2	3	4	5	6	7	8	9	10
171	1901289306	HARAPRASAD RATH	1	2	3	4	5	6	7	8	9	10
172	1901289307	IPSITA PANDA	X	1	2	3	4	5	6	7	8	9
173	1901289308	KRISHNA SATPATHY	1	2	3	4	5	6	7	8	9	10
174	1901289309	KUMAR PRALAYA RANJAN	1	X	2	3	4	5	6	7	8	9
175	1901289310	MANOJ KUMAR ROUT	1	2	3	4	5	6	7	8	9	10
176	1901289311	MANORANJAN MAJHEE	1	2	3	4	5	6	7	8	9	10
177	1901289312	MANORANJAN MALLICK	1	X	2	3	4	5	6	7	8	9
178	1901289313	MD ZAFFAR AHMAD	X	1	2	3	4	5	6	X	7	8
179	1901289314	MILLAN KUMAR KHILAR	1	2	3	4	5	X	6	7	8	9
180	1901289315	NIJHUM ACHARYA	1	2	3	4	5	6	7	X	8	9
181	1901289316	NIKHIL KUMAR	1	2	3	4	5	X	6	7	8	9
182	1901289317	PADMAJA DORA	1	2	3	4	5	6	X	7	8	9
183	1901289318	PRABHANJAN SAHU	1	2	3	4	5	6	7	8	9	10
184	1901289319	PRAGNYA MISHRA	1	X	2	3	4	5	6	7	8	9
185	1901289320	PRATIK ANAND	1	2	3	4	5	6	7	8	9	10
186	1901289321	PRIYANKA PRAHARAJ	X	1	2	3	4	5	6	7	8	9
187	1901289322	PRIYANSHU DAS	1	2	3	4	5	6	7	8	9	10
188	1901289323	RAJESH MAHAPATRA	1	2	3	4	5	6	7	8	9	10
189	1901289324	RUDRA NARAYAN BEHERA	1	2	3	4	5	6	7	8	9	10
190	1901289325	RUDRASIS BISWAJIT	1	2	3	4	5	6	7	8	9	10
191	1901289326	SAUMES PRAKASH SAHOO	1	2	3	4	5	6	7	8	9	10
192	1901289327	SHREEMANT JAISWAL	1	2	3	4	5	6	7	8	9	10

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	1901289211	ABHIJEET SAHOO	1	2	3	4	5	6	7	8	9	10
4	1901289212	ABHILIPSA PARIDA	1	2	X	3	4	X	5	6	7	8
195	1901289213	ABHISHEK PADHI	1	2	3	4	5	6	7	8	9	10
196	1901289214	AKASH SWAIN	X	1	2	3	4	5	6	X	7	8
197	1901289215	AMRIT PANIGRAHY	1	X	2	3	4	5	6	7	8	9
198	1901289216	AMRITA MANDAL	1	2	3	X	4	5	6	7	8	9
199	1901289217	ANANYA BAL	1	2	3	4	5	X	6	7	8	9
200	1901289218	ANIKET NAYAK	1	2	3	4	5	6	7	8	9	10
201	1901289219	ANIL KUMAR BEHERA	1	2	3	4	5	6	7	8	9	10
202	1901289220	ANISHA MOHANTY	1	2	3	4	5	X	6	7	8	9
203	1901289221	ANJALI KISAN	X	1	2	3	4	5	6	7	8	9
204	1901289223	ARPITA DASH	1	2	X	3	4	5	6	7	8	9
205	1901289224	ASHISH RANJAN PRADHAN	1	X	2	3	4	X	5	6	7	8
206	1901289225	ASHISH SENAPATI	1	2	3	4	5	6	7	8	9	10
207	1901289226	BALARAM SAHOO	1	2	3	4	5	6	7	8	9	10
208	1901289227	BARSHARANI MOHANTY	1	2	3	4	5	6	7	X	8	9
209	1901289228	BIKASH RANJAN NAYAK	X	1	2	3	4	5	6	7	8	9
210	1901289229	BINAYA KUMAR MOHANTY	X	1	2	3	4	5	6	7	8	9
211	1901289230	CHINMAY KUMAR PANDA	1	2	3	4	5	6	7	8	9	10
212	1901289231	DIBYAJYOTI SAHOO	1	2	X	3	4	X	5	6	7	8
213	1901289232	DIPANKAR DUTTA	1	2	3	4	5	6	7	8	9	10
214	1901289233	HARA PRASAD PATRA	1	2	3	4	5	6	7	8	9	10
215	1901289234	HAREKRUSHNA SAHOO	1	2	X	3	4	5	6	7	8	9
216	1901289235	HIMANSHUSHEKHAR DINBANDHU SWAIN	1	2	3	4	5	6	7	8	9	10
217	1901289236	JYOTI PRAKASH PATRA	1	2	3	4	5	6	7	8	9	10
218	1901289237	JYOTIPRAKASH JENA	X	1	2	3	4	6	7	8	9	10
219	1901289238	KAPURAMANI SOREN	1	X	2	3	4	5	X	6	7	8
220	1901289240	LOPAMUDRA PRADHAN	1	X	2	3	4	5	6	7	8	9
221	1901289241	M. SAI SIMRON	1	2	2	X	3	X	4	5	6	7
222	1901289242	MAHESH BEHERA	1	2	3	4	5	6	7	8	9	10
223	1901289243	MONALISHA BHUYAN	1	2	3	4	5	6	7	8	9	10
224	1901289244	MUKESH KUMAR MAHARANA	1	2	X	3	4	X	5	6	7	8
225	1901289245	NIKHIL KUMAR RAY	1	X	2	3	4	5	6	7	8	9
226	1901289246	OMPRAKASH SAHOO	1	2	3	4	5	5	6	7	8	9
227	1901289247	PRAGYAN PRAVA SWAIN	1	2	3	4	5	5	6	7	8	9
228	1901289248	PRASUN MUKHERJEE	1	2	X	3	4	X	5	6	7	8
229	1901289249	RAJAT KUMAR DWARI	1	2	3	4	5	6	7	8	9	10
230	1901289250	RANJIT KUMAR PATRA	X	1	2	3	4	5	6	7	8	9
231	1901289251	ROMIT RANJAN RAY	1	2	3	4	5	6	7	8	9	10
232	1901289252	SAGAR GAUTAM PANDA	1	X	2	3	4	5	6	7	8	9

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	1901289028	ABHIJIT NANDA	1	2	3	4	5	6	7	8	9	10
4	1901289029	ABHILASH MOHANTY	1	2	X	3	4	5	6	7	8	9
235	1901289030	ABHINAV GUPTA	1	2	3	4	5	6	7	8	9	10
236	1901289031	ABHISEK AICH	1	2	3	4	5	X	6	7	8	9
237	1901289032	ABHISHEK KUMAR	X	1	2	3	4	5	6	X	7	8
238	1901289033	ACHYUTA PRASAD LENKA	1	X	2	3	4	5	6	7	8	9
239	1901289034	ACOSMICA MISHRA	1	2	X	4	5	6	7	8	9	10
240	1901289035	ADARSH KUMAR	1	2	3	X	4	5	6	7	8	9
241	1901289036	ADITI MISHRA	1	2	3	4	5	6	7	8	9	10
242	1901289037	ADITYA RAJ	1	2	3	4	X	5	6	7	8	9
243	1901289038	ADYASHA TRIPATHY	1	2	3	4	5	6	7	8	9	10
244	1901289039	AKASH KUMAR PRADHAN	X	1	2	3	4	X	5	6	7	8
245	1901289040	AKASH KUMAR SAHOO	1	2	3	4	5	6	7	8	X	9
246	1901289041	AKASH KUMAR SINGH	1	2	3	4	5	6	7	8	9	10
247	1901289042	ALAKANANDA SAHOO	1	2	3	4	5	X	6	X	7	8
248	1901289043	ALKA MAHARATHA	1	2	3	4	5	6	X	7	8	9
249	1901289044	AMAN KUMAR	1	2	X	3	4	5	6	7	8	9
250	1901289045	AMISHA DASH	1	2	3	4	5	6	7	8	9	10
251	1901289046	AMIT KUMAR DASH	1	2	3	X	4	5	6	7	8	9
252	1901289047	AMIYA GHADEI	1	2	3	4	5	X	6	7	8	9
253	1901289048	AMLIKA ROUTRAY	1	2	3	4	5	6	7	X	8	9
254	1901289049	AMRITSAI MOHARANA	X	1	2	3	4	5	6	7	8	9
255	1901289050	ANGELINA MAHARANA	X	1	2	3	4	5	6	7	8	9
256	1901289051	ANIL KUMAR SINGH	1	2	3	4	5	6	7	X	8	9
257	1901289052	ANIMESH PATTNAIK	1	X	2	3	4	5	6	7	8	9
258	1901289053	ANKIT SINHA	1	X	2	3	4	5	6	7	8	9
259	1901289054	ANKITA DASH	1	X	2	3	4	X	5	6	7	8
260	1901289055	ANKITA NAYAK	1	X	2	3	4	5	6	7	8	9
261	1901289056	ANKUR JAYASINGH	1	2	3	4	5	X	6	7	X	8
262	1901289057	ANTARYAMI MOHARANA	X	1	2	3	4	5	6	7	8	9
263	1901289058	ANUBHABI DAS	X	1	2	3	4	5	6	7	8	9
264	1901289059	ANURAG MISHRA	X	1	2	3	4	5	6	7	8	9
265	1901289060	ANURAG SATAPATHY	X	1	2	3	4	5	6	7	8	9
266	1901289061	ARGHADIP DAS	1	2	3	4	5	6	7	8	9	10
267	1901289062	ARPITA NAYAK	1	2	X	3	4	5	7	X	X	8
268	1901289063	ARYA ABINASH	1	2	3	X	4	5	7	8	X	9
269	1901289028	ABHIJIT NANDA	1	2	3	4	5	6	7	8	9	10
270	1901289029	ABHILASH MOHANTY	1	2	3	4	5	6	7	8	9	10
271	1901289030	ABHINAV GUPTA	1	2	3	4	5	6	X	7	8	9
272	1901289031	ABHISEK AICH	1	2	3	4	5	6	7	8	9	10

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	1901289064	ASHUTOSH BEHERA	1	2	3	4	5	6	7	8	9	10
4	1901289065	ASHUTOSH MOHAPATRA	1	2	3	4	5	X	6	7	8	9
275	1901289066	ASHUTOSH ROUTARAY	1	2	3	4	5	6	X	7	8	9
276	1901289067	ASIM GOPE	1	2	3	4	5	6	7	8	9	10
277	1901289068	ASUTOSH BARAL	1	2	3	4	5	6	7	8	9	10
278	1901289069	ASUTOSH SAHOO	1	2	3	4	5	6	7	8	9	10
279	1901289070	AVIRUP DE	X	1	2	3	4	X	5	6	X	7
280	1901289071	AYASKANTA PARIDA	X	1	2	3	4	5	6	7	8	9
281	1901289072	AYESHA FIRDUSH	1	X	2	3	4	5	6	7	8	9
282	1901289073	AYESHKANT MALLICK	X	1	2	3	4	5	X	6	7	8
283	1901289074	AYUSH MAHAPATRA	X	1	2	3	4	5	6	7	8	9
284	1901289075	AYUSI MISHRA	1	X	2	3	4	5	6	7	8	9
285	1901289076	BADAL KUMAR BEHERA	1	X	2	3	4	X	5	6	7	8
286	1901289077	BANSHITA MISHRA	1	X	2	3	4	5	6	7	8	9
287	1901289078	BARSHA RANI NAYAK	1	2	3	4	5	X	6	7	8	9
288	1901289079	BASUNDHARA MOHANTY	1	2	3	4	5	6	7	8	9	10
289	1901289080	BHANU PRATAP DAS	1	2	3	4	5	6	7	8	9	10
300	1901289081	BINAYAK MISHRA	1	2	3	4	5	X	6	7	8	9
301	1901289082	BISHAL GHOSH	1	2	3	4	5	6	7	8	9	10
302	1901289083	BISWAJIT PRADHAN	1	2	3	4	5	6	7	8	9	10
303	1901289084	CHIDANANDA PARIDA	1	2	3	4	5	6	7	X	8	9
304	1901289085	CHINMAYA NAYAK	1	2	3	4	5	6	7	8	9	10
305	1901289086	CHINMAYA SATPATHY	1	2	3	4	5	6	7	8	9	10
306	1901289087	CHINMAYEE PANI	X	1	2	3	4	5	6	7	X	8
307	1901289088	DEBA JYOTI PILA	1	2	3	4	5	6	7	8	9	10
308	1901289089	DEBABRATA PATI	1	2	3	4	5	6	7	8	9	10
309	1901289090	DEBADUTTA DEY	1	2	3	4	5	6	7	X	8	10
310	1901289091	DEBADUTTA PRADHAN	1	2	3	4	5	6	7	8	9	10
311	1901289092	DEBASHISH MAHATO	1	2	3	4	5	6	7	8	9	10
312	1901289093	DEBIPRASANNA PATTANAIK	1	2	3	4	5	6	7	8	9	10
313	1901289094	DEEPANKAR MALI	1	2	3	4	5	6	7	8	9	10
314	1901289095	DHARASHREE PATTANAYAK	X	1	2	3	4	6	7	8	9	10
315	1901289096	DHARITRI DAS	1	2	3	4	5	6	7	8	9	10
316	1901289097	DIBYA JYOTI PATRA	1	X	2	3	4	X	6	7	8	9
317	1901289098	DIBYAJIT PANDA	1	2	3	4	5	6	7	X	8	9
318	1901289099	DIBYAJYOTI PARIDA	1	2	3	4	5	6	7	8	9	10
319	1901289064	ASHUTOSH BEHERA	1	X	2	3	4	6	7	8	9	10
320	1901289065	ASHUTOSH MOHAPATRA	1	2	3	4	5	6	7	8	9	10

Signature of Teacher

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Attendance Sheet

Name of the Teacher: Mohini Prasad Mishra **Month/Year:** Nov/2022

Subject Code: **Branch:**

Subject: NPTEL

Sl. No	REGD NO	NAME	22/11	23/11	24/11	25/11						
1	2106289001	AMIT KUMAR SWAIN	10	11	12	13						
2	2106289002	ASHES KUMAR SWAIN	10	11	X	12						
3	2106289003	ASHIS KUMAR BISWAL	9	X	10	11						
4	2106289004	ASHUTOSH PRADHAN	11	12	13	14						
5	2106289005	ASHUTOSH PRADHAN	10	11	12	13						
6	2106289006	BEDAPRAKASH PRUSTY	11	12	13	14						
7	2106289007	BHARGAVI DASH	10	11	12	13						
8	2106289008	DEBABRATA FATHKAR	11	12	13	14						
9	2106289009	DEBASHISH SAHU	10	X	11	12						
10	2106289011	G ADITYA PRASAD PATRO	11	12	13	14						
11	2106289012	GYANASWINEE NAYAK	11	12	13	14						
12	2106289013	KAJAL SAHOO	X	10	11	12						
13	2106289014	MADHURIMA MAHALA	10	11	12	13						
14	2106289015	MADHUSMITA NAYAK	10	11	12	13						
15	2106289016	MADHUSMITA NAYAK	11	12	13	X						
16	2106289017	MANOJ KUMAR SAHOO	10	11	12	13						
17	2106289019	NITISH NAYAK	10	11	12	13						
18	2106289020	PRADYUMNA SAHOO	11	12	13	14						
19	2106289021	PRATEEKSHYA PATTANAYAK	11	12	13	14						
20	2106289022	PRITI PRIYADARSHINI KALO	11	12	13	14						
21	2106289023	RAHUL RAMAN BHOL	11	X	12	13						
22	2106289024	RAJNI KUMARI LAGURI	10	11	12	13						
23	2106289025	ROHAN KUMAR ACHARJYA	11	12	13	14						
24	2106289026	RONAK JENA	11	12	13	14						
25	2106289027	SAMEER PADHY	11	12	13	14						
26	2106289028	SANGITA BEHERA	10	11	X	12						
27	2106289029	SHRABANI KUMARI PANDA	10	11	12	13						
28	2106289030	SIMRAN NAYAK	11	12	13	14						
29	2106289032	SMRUTI REKHA BESHRA	11	12	13	14						
30	2106289033	SMRUTIREKHA SWAIN	11	12	13	14						
31	2106289034	SOURAV PRASAD DAS	10	11	12	13						
32	2106289036	SUBHASHREE SUBHRAJYOTI NAYAK	11	12	13	14						

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	REGD NO	NAME	22/11	23/11	24/11	25/11						
	2105289013	CHAITANYA LAKRA	10	11	12	13						
	2105289014	CHANDAN KUMAR NAYAK	10	11	X	12						
35	2105289015	CHINMAY SAHOO	10	11	12	13						
36	2105289016	DEBASIS TARAI	9	10	11	12						
37	2105289017	DEEPAK KUMAR BHUTIA	11	12	13	14						
38	2105289018	DEEPAK KUMAR GOUDA	11	12	13	14						
39	2105289019	DIBYA JYOTIRMAYA MUKHI	X	11	12	13						
40	2105289020	DIBYASUNDAR BEHERA	10	12	13	14						
41	2105289021	GEETANJALI MISHRA	9	10	11	12						
42	2105289022	IPSITA BEURA	11	12	13	14						
43	2105289023	JACHANIKA SETHY	10	11	12	13						
44	2105289024	JAGANNATH PALEI	11	12	X	13						
45	2105289025	JYOTIRANJAN LENKA	11	12	13	14						
46	2105289026	KUMAR CHINMAYA CHANDRAKANTA NAYAK	10	11	12	13						
47	2105289027	MANASI BEHERA	11	12	13	14						
48	2105289028	MANOJ KUMAR SAHOO	10	11	12	13						
49	2105289029	MANORANJAN SATAPATHY	11	12	13	14						
50	2105289030	MITALI MANASWINI MOHAPATRA	X	10	11	12						
51	2105289031	NIBEDITA BALA	11	12	13	14						
52	2105289032	NITISH KUMAR ROUTRAY	10	11	12	13						
53	2105289033	PADMA LOCHAN MARNDI	11	12	13	14						
54	2105289034	PRADOSH MOHANTY	11	12	13	14						
55	2105289035	PRAJNYA PARAMITA OJHA	10	11	12	13						
56	2105289036	PRATIVA DUTTA	11	12	13	14						
57	2105289037	PRATYUSA PARAMITA SASMAL	10	11	12	13						
58	2105289039	PRAVEEN KUMAR	11	12	13	14						
59	2105289040	PRIYABRATA NAYAK	11	12	13	14						
60	2105289041	PUSPAKANTA SAHOO	11	12	X	13						
61	2105289042	RAHUL SATAPATHY	10	11	12	13						
62	2105289043	RASHMI RANJAN PANDA	11	12	13	14						
63	2105289044	RUDRESWAR RANA	10	11	12	13						
64	2105289045	SASMITA PATI	10	11	12	13						
65	2105289046	SHAKTI SANKAR BEHERA	11	12	13	14						
66	2105289047	SMRUTI RANJITA SAHOO	X	11	12	13						
67	2105289048	SMRUTIKANTA SWAIN	11	12	13	14						
68	2105289049	SMRUTIPRANGYA SAHOO	10	11	12	13						
69	2105289050	SOMYA BHARATI SWAIN	10	11	12	13						
70	2105289051	SOURAV BEHURIA	10	11	12	13						
71	2105289052	SRISTYSUMAN DASH	11	12	13	14						
72	2105289053	SUBHASHREE SUBHASMITA PRADHAN	11	12	13	14						

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	REGD NO	NAME	22/11	23/11	24/11	25/11						
	1901289391	ABHINASH JENA	10	11	12	13						
4	1901289392	AMIT GHOSHAL	9	10	11	12						
75	1901289393	ASWINI KUMAR SAHU	11	12	13	14						
76	1901289394	BIKASH JHANKAR	11	X	12	13						
77	1901289395	HARSH PASWAN	10	11	12	13						
78	1901289396	KRISHNA KANTA MURMU	10	11	12	13						
79	1901289397	MANMOHAN MAHANTA	X	10	11	12						
80	1901289398	MD. SAHIL	11	12	13	14						
81	1901289399	PRABHUPRABINA SWAIN	10	11	12	13						
82	1901289400	PRABIN KUMAR BISOYI	11	12	13	14						
83	1901289401	RAJESH KUMAR PRADHAN	10	11	X	12						
84	1901289402	RAJESH KUMAR SAMAL	10	11	12	13						
85	1901289403	RASHMI RANJAN DAS	11	12	13	14						
86	1901289404	SANGRAM PRADHAN	11	12	13	14						
87	1901289405	UTKARSH	X	10	11	12						
88	2021289066	ABHISHEK RAY	10	11	12	13						
89	2021289067	AYUSH HALI	11	12	13	14						
90	2021289068	BALARAM SWAIN	10	11	12	13						
91	2021289069	LAXMINARAYAN SWAIN	10	11	12	13						
92	2021289070	MANISH KUMAR NAYAK	11	12	13	14						
93	2021289071	SANKET ACHARYA	10	X	11	12						
94	2021289072	SOURESH CHATTERJEE	10	11	12	13						
95	2021289073	ABHISEK MOHANTY	10	11	12	13						
96	2021289074	BRUNDABAN DALEI	11	12	13	14						
97	2021289075	DINESH SHARMA	11	12	X	13						
98	2021289076	DURGA PRASAD BHAL	10	11	12	13						
99	2021289077	PRATYUSH KUMAR MOHANTY	10	11	12	13						
100	1901289005	RIYA SHARMA	10	11	12	13						
101	1901289343	ABHISHEK RANJAN	11	12	13	14						
102	1901289344	ABINASH BEHERA	11	12	13	14						
103	1901289345	ABINASH KUMAR TRIPATHY	X	10	11	12						
104	1901289346	AKASH SAHU	11	12	13	14						
105	1901289347	ANKIT MANGARAJ	10	11	12	13						
106	1901289348	ANKITA PRUSTY	9	10	11	12						
107	1901289349	ANSHU GAUTAM	10	11	12	13						
108	1901289351	ASHIS SHARMA	10	11	12	13						
109	1901289352	ASHISH KUMAR ROUT	10	11	12	13						
110	1901289353	ASHUTOSH ACHARYA	9	10	11	12						
111	1901289354	ASIS PATTANAIK	11	12	13	14						
112	1901289355	BHOLANATH BARIK	11	12	13	14						

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	REGD NO	NAME	22/11	23/11	24/11	25/11						
	1901289356	BISWA RANJAN DAS	9	10	11	12						
114	1901289357	BISWAJEET PUTI	10	11	12	13						
115	1901289358	BISWAJIT ROUT	11	12	X	13						
116	1901289359	BISWAJIT SAMAL	11	12	13	14						
117	1901289360	DIBYAJYOTI PATRA	10	11	12	13						
118	1901289361	HIMANSU RANJAN MALLICK	X	10	11	12						
119	1901289362	KAMAL ACHARYA	11	12	13	14						
120	1901289363	KASHISH KUMARI	11	12	13	14						
121	1901289364	KISHAN KUMAR MAHARANA	10	11	12	13						
122	1901289365	MD FARID RAZZA	10	11	12	13						
123	1901289366	MOHIT KUMAR	11	12	13	14						
124	1901289367	NAMRATA MOHARANA	10	11	12	13						
125	1901289368	NIKHILESH PANI	X	10	11	12						
126	1901289369	P KARTHIK KUMAR	10	11	12	13						
127	1901289370	PRATYARPITA PATTANAIK	11	12	13	14						
128	1901289371	ROSHAN LAL PRAJAPATI	11	12	13	14						
129	1901289372	RUMANA BEGUM	11	12	13	14						
130	1901289374	SAMIKSHA BARIK	11	12	13	14						
131	1901289375	SARBESWAR NAYAK	10	11	12	13						
132	1901289376	SAROJ KUMAR RANA	10	11	12	13						
133	1901289377	SATRUJIT PANI	11	12	13	14						
134	1901289378	SATYAM KUMAR SINGH	11	X	12	13						
135	1901289379	SAUMYARANJAN SAHOO	10	11	12	13						
136	1901289380	SONALEE PRIYADARSINEE	10	11	12	13						
137	1901289381	SUBHAM SAHOO	11	12	13	14						
138	1901289382	SUBHAM SUBHRAJIT	11	12	X	13						
139	1901289383	SUDHIR KUMAR	11	12	13	14						
400	1901289384	SULAGNAA PANI	10	10	12	13						
141	1901289385	SUNIL KUMAR PANDA	10	10	12	13						
142	1901289386	SUPRAVA ROUTRAY	9	10	11	12						
143	1901289387	SWARAJ KUMAR SAHOO	X	11	12	13						
144	1901289388	BINAYAK MOHANTY	11	12	X	13						
145	1901289389	SOMANYU SAMAL	10	10	12	13						
146	1901289390	SUPRIYA SATAPATHY	11	12	13	14						
147	2021289064	AMAN KUMAR BEHERA	10	10	12	13						
148	1901289356	BISWA RANJAN DAS	10	11	12	13						
149	1901289357	BISWAJEET PUTI	11	12	13	14						
150	1901289358	BISWAJIT ROUT	11	12	13	14						
151	1901289359	BISWAJIT SAMAL	10	11	12	13						
152	1901289360	DIBYAJYOTI PATRA	11	12	13	14						

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Sl. No	REGD NO	NAME	22/11	23/11	24/11	25/11						
153	1901289288	ABHIJEET SAHOO	11	12	13	14						
154	1901289289	ABHISEK NANDA	X	10	11	12						
155	1901289290	ABINASH ROUTRAY	11	12	13	14						
156	1901289291	ADITYA NARAYAN DHAR	11	12	13	14						
157	1901289292	AMIT SINGH	11	12	13	14						
158	1901289293	ANANYA MOHAPATRA	10	X	11	12						
159	1901289294	ANIL KUMAR MALLICK	11	12	13	14						
160	1901289295	ANKITA PATI	11	12	13	14						
161	1901289296	ANKITA PRIYADARSHANI	11	12	13	14						
162	1901289297	ANURAG PRADHAN	X	10	11	12						
163	1901289298	BIBECHITA SAHOO	11	12	13	14						
164	1901289299	BISWAJEET JENA	11	12	13	14						
165	1901289300	CHINMAYEE DUTTA	10	11	12	13						
166	1901289301	DEBABRATA SI	11	X	12	13						
167	1901289302	DEBASHIS NAYAK	11	12	13	14						
168	1901289303	DEBASMITA DEY	11	12	13	14						
169	1901289304	DIBYA PRAKASH PANDA	X	11	12	13						
170	1901289305	GOURAB SAHU	11	12	13	14						
171	1901289306	HARAPRASAD RATH	11	12	13	14						
172	1901289307	IPSITA PANDA	10	11	12	13						
173	1901289308	KRISHNA SATPATHY	11	12	13	14						
174	1901289309	KUMAR PRALAYA RANJAN	10	11	X	12						
175	1901289310	MANOJ KUMAR ROUT	11	12	13	14						
176	1901289311	MANORANJAN MAJHEE	11	12	13	14						
177	1901289312	MANORANJAN MALLICK	10	11	12	13						
178	1901289313	MD ZAFFAR AHMAD	9	10	11	12						
179	1901289314	MILLAN KUMAR KHILAR	10	11	12	13						
180	1901289315	NIJHUM ACHARYA	10	11	12	13						
181	1901289316	NIKHIL KUMAR	10	11	12	13						
182	1901289317	PADMAJA DORA	10	11	12	13						
183	1901289318	PRABHANJAN SAHU	11	12	13	14						
184	1901289319	PRAGNYA MISHRA	10	11	12	13						
185	1901289320	PRATIK ANAND	11	12	13	14						
186	1901289321	PRIYANKA PRAHARAJ	10	11	12	13						
187	1901289322	PRIYANSHU DAS	11	12	13	14						
188	1901289323	RAJESH MAHAPATRA	11	X	12	13						
189	1901289324	RUDRA NARAYAN BEHERA	11	12	13	14						
190	1901289325	RUDRASIS BISWAJIT	11	12	13	14						
191	1901289326	SAUMES PRAKASH SAHOO	11	12	13	14						
192	1901289327	SHREEMANT JAISWAL	11	12	13	14						

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Sl. No	REGD NO	NAME	22/11	23/11	24/11	25/11						
193	1901289211	ABHIJEET SAHOO	11	12	13	14						
194	1901289212	ABHILIPSA PARIDA	9	10	11	12						
195	1901289213	ABHISHEK PADHI	11	12	13	14						
196	1901289214	AKASH SWAIN	9	10	11	12						
197	1901289215	AMRIT PANIGRAHY	X	10	M	12						
198	1901289216	AMRITA MANDAL	10	11	X	12						
199	1901289217	ANANYA BAL	10	11	12	13						
200	1901289218	ANIKET NAYAK	11	12	13	14						
201	1901289219	ANIL KUMAR BEHERA	11	12	13	14						
202	1901289220	ANISHA MOHANTY	10	11	12	13						
203	1901289221	ANJALI KISAN	10	11	12	13						
204	1901289223	ARPITA DASH	10	11	12	13						
205	1901289224	ASHISH RANJAN PRADHAN	9	10	11	12						
206	1901289225	ASHISH SENAPATI	11	12	13	14						
207	1901289226	BALARAM SAHOO	X	11	12	13						
208	1901289227	BARSHARANI MOHANTY	10	11	12	13						
209	1901289228	BIKASH RANJAN NAYAK	10	11	12	13						
210	1901289229	BINAYA KUMAR MOHANTY	10	11	12	13						
211	1901289230	CHINMAY KUMAR PANDA	11	12	13	14						
212	1901289231	DIBYAJYOTI SAHOO	9	10	11	12						
213	1901289232	DIPANKAR DUTTA	10	12	13	14						
214	1901289233	HARA PRASAD PATRA	11	12	13	14						
215	1901289234	HAREKRUSHNA SAHOO	10	11	12	13						
216	1901289235	HIMANSHUSHEKHAR DINBANDHU SWAIN	11	12	13	14						
217	1901289236	JYOTI PRAKASH PATRA	11	12	13	14						
218	1901289237	JYOTIPRAKASH JENA	11	12	13	14						
219	1901289238	KAPURAMANI SOREN	9	10	11	12						
220	1901289240	LOPAMUDRA PRADHAN	10	11	12	13						
221	1901289241	M. SAI SIMRON	8	9	10	11						
222	1901289242	MAHESH BEHERA	X	11	12	13						
223	1901289243	MONALISHA BHUYAN	11	12	13	14						
224	1901289244	MUKESH KUMAR MAHARANA	9	10	11	12						
225	1901289245	NIKHIL KUMAR RAY	10	11	12	13						
226	1901289246	OMPRAKASH SAHOO	10	11	12	13						
227	1901289247	PRAGYAN PRAVA SWAIN	10	10	11	12						
228	1901289248	PRASUN MUKHERJEE	9	10	11	12						
229	1901289249	RAJAT KUMAR DWARI	11	12	13	14						
230	1901289250	RANJIT KUMAR PATRA	10	11	12	13						
231	1901289251	ROMIT RANJAN RAY	11	12	13	14						
232	1901289252	SAGAR GAUTAM PANDA	10	11	12	13						

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Sl. No	REGD NO	NAME	22/11	23/11	24/11	25/11
233	1901289028	ABHIJIT NANDA	11	12	13	14
234	1901289029	ABHILASH MOHANTY	10	11	12	13
235	1901289030	ABHINAV GUPTA	11	12	13	14
236	1901289031	ABHISEK AICH	X	10	11	12
237	1901289032	ABHISHEK KUMAR	9	10	11	12
238	1901289033	ACHYUTA PRASAD LENKA	10	11	X	12
239	1901289034	ACOSMICA MISHRA	11	12	13	14
240	1901289035	ADARSH KUMAR	10	11	12	13
241	1901289036	ADITI MISHRA	11	X	12	13
242	1901289037	ADITYA RAJ	10	11	12	13
243	1901289038	ADYASHA TRIPATHY	11	12	13	14
244	1901289039	AKASH KUMAR PRADHAN	9	10	11	12
245	1901289040	AKASH KUMAR SAHOO	10	11	12	13
246	1901289041	AKASH KUMAR SINGH	X	11	12	13
247	1901289042	ALAKANANDA SAHOO	9	10	11	12
248	1901289043	ALKA MAHARATHA	10	11	12	13
249	1901289044	AMAN KUMAR	10	11	12	13
250	1901289045	AMISHA DASH	11	12	13	14
251	1901289046	AMIT KUMAR DASH	10	11	12	13
252	1901289047	AMIYA GHADEI	10	11	12	13
253	1901289048	AMLIKA ROUTRAY	10	11	12	13
254	1901289049	AMRITSAI MOHARANA	10	11	12	13
255	1901289050	ANGELINA MAHARANA	10	11	12	13
256	1901289051	ANIL KUMAR SINGH	10	11	12	13
257	1901289052	ANIMESH PATTNAIK	10	X	11	12
258	1901289053	ANKIT SINHA	10	11	12	13
259	1901289054	ANKITA DASH	9	10	11	12
260	1901289055	ANKITA NAYAK	10	11	12	13
261	1901289056	ANKUR JAYASINGH	9	10	11	12
262	1901289057	ANTARYAMI MOHARANA	10	11	12	13
263	1901289058	ANUBHABI DAS	X	10	11	12
264	1901289059	ANURAG MISHRA	10	11	12	13
265	1901289060	ANURAG SATAPATHY	10	11	12	13
266	1901289061	ARGHADIP DAS	10	11	12	13
267	1901289062	ARPITA NAYAK	11	12	13	14
268	1901289063	ARYA ABINASH	9	10	11	12
269	1901289028	ABHIJIT NANDA	10	11	12	13
270	1901289029	ABHILASH MOHANTY	11	12	13	14
271	1901289030	ABHINAV GUPTA	11	12	13	14
272	1901289031	ABHISEK AICH	11	12	13	14

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Sl. No	REGD NO	NAME	22/11	23/11	24/11	25/11						
273	1901289064	ASHUTOSH BEHERA	11	12	13	14						
274	1901289065	ASHUTOSH MOHAPATRA	10	11	12	13						
275	1901289066	ASHUTOSH ROUTARAY	10	11	12	13						
276	1901289067	ASIM GOPE	11	12	13	14						
277	1901289068	ASUTOSH BARAL	11	12	13	14						
278	1901289069	ASUTOSH SAHOO	X	11	12	13						
279	1901289070	AVIRUP DE	8	9	10	11						
280	1901289071	AYASKANTA PARIDA	10	11	12	13						
281	1901289072	AYESHA FIRDUSH	10	11	12	13						
282	1901289073	AYESHKANT MALLICK	9	10	11	12						
283	1901289074	AYUSH MAHAPATRA	10	11	12	13						
284	1901289075	AYUSI MISHRA	10	11	12	13						
285	1901289076	BADAL KUMAR BEHERA	9	10	11	12						
286	1901289077	BANSHITA MISHRA	10	11	12	13						
287	1901289078	BARSHA RANI NAYAK	10	11	12	13						
288	1901289079	BASUNDHARA MOHANTY	11	12	13	14						
289	1901289080	BHANU PRATAP DAS	11	12	13	14						
300	1901289081	BINAYAK MISHRA	10	11	12	13						
301	1901289082	BISHAL GHOSH	11	12	13	14						
302	1901289083	BISWAJIT PRADHAN	11	12	13	14						
303	1901289084	CHIDANANDA PARIDA	10	11	12	13						
304	1901289085	CHINMAYA NAYAK	11	12	13	14						
305	1901289086	CHINMAYA SATPATHY	11	12	13	14						
306	1901289087	CHINMAYEE PANI	9	10	11	12						
307	1901289088	DEBA JYOTI PILA	X	11	12	13						
308	1901289089	DEBABRATA PATI	11	12	13	14						
309	1901289090	DEBADUTTA DEY	11	12	13	14						
310	1901289091	DEBADUTTA PRADHAN	11	12	13	14						
311	1901289092	DEBASHISH MAHATO	11	12	13	14						
312	1901289093	DEBIPRASANNA PATTANAIK	11	12	13	14						
313	1901289094	DEEPANKAR MALI	11	X	12	13						
314	1901289095	DHARASHREE PATTANAYAK	11	12	13	14						
315	1901289096	DHARITRI DAS	11	12	13	14						
316	1901289097	DIBYA JYOTI PATRA	10	11	X	12						
317	1901289098	DIBYAJIT PANDA	10	11	12	13						
318	1901289099	DIBYAJYOTI PARIDA	11	12	13	14						
319	1901289064	ASHUTOSH BEHERA	11	12	X	13						
320	1901289065	ASHUTOSH MOHAPATRA	11	12	13	14						

Signature of Teacher

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Trident Academy of Technology
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Date: 09.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Sub: Permission to start certificate course in "Mastering Verilog through Guided Problem Solving" for B. Tech students.

Respected Sir,

As per our departmental meeting held on dated 08.09.2022, we are planning to start a course "Mastering Verilog through Guided Problem Solving" from 21.09.2022. The objective of the course is to give fundamental knowledge of digital design and hardware description language (HDL) programming to our students. The course duration and schedule are attached for your perusal.

Thanking You,

PChand

(HOD, CSE)

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SYLLABUS

Mastering Verilog through Guided Problem Solving

Total Lecture Periods: 30hrs

Course Objectives:

This course aims to enhance students' proficiency in Verilog HDL by engaging them in guided problem-solving exercises. It provides students with the skills to design, simulate, and implement digital circuits using Verilog, offering practical insights into hardware modeling and digital system design.

MODULE-I: Basics of Verilog HDL [8 periods]

- **Topics:** Introduction to Verilog, design hierarchy, syntax and constructs, data types, and modeling styles (behavioral, structural, and data flow).

MODULE-II: Combinational Logic Design [8 periods]

- **Topics:** Designing combinational circuits such as multiplexers, decoders, encoders, and adders using Verilog.

MODULE-III: Sequential Circuit Design [8 periods]

- **Topics:** Modeling sequential circuits including flip-flops, registers, and finite state machines (FSM) using Verilog.

MODULE-IV: Verification and Advanced Applications [6 periods]

- **Topics:** Testbench creation, waveform analysis, simulation tools, and project-based learning involving hardware design and implementation.

Course Outcomes:

After completion of the course, the students will be able to:
CO1: Understand the syntax and structure of Verilog HDL.
CO2: Model and simulate combinational and sequential circuits.
CO3: Develop Verilog code for digital system design and debugging.

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CO4: Analyze and optimize hardware designs using Verilog.
CO5: Implement real-world projects using Verilog HDL.
CO6: Collaborate in team projects to simulate and test digital designs.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of the course and assessment processes.

Learning Resources:

Suggested Books:

1. "Verilog HDL: A Guide to Digital Design and Synthesis" by Samir Palnitkar
2. "Advanced Digital Design with Verilog HDL" by Michael D. Ciletti

Sudanshu Lenka

(Course Instructor)

(HOD, CSE)

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SCHEDULE

Mastering Verilog through Guided Problem Solving

Sl No	Date	Time	Course Content
1	21/09/2022	3:00PM-6:00PM	Overview of Verilog HDL, design hierarchy, and its applications in hardware design.
2	22/09/2022	3:00PM-6:00PM	Understanding Verilog syntax, keywords, and commonly used constructs.
3	23/09/2022	3:00PM-6:00PM	Overview of Verilog data types and modeling styles: behavioral, structural, and dataflow.
4	24/09/2022	3:00PM-6:00PM	Design and implementation of multiplexers using Verilog.
5	26/09/2022	3:00PM-6:00PM	Designing decoders and encoders using Verilog for hardware applications.
6	27/09/2022	3:00PM-6:00PM	Implementing various types of adders (e.g., half-adders, full-adders) in Verilog.
7	28/09/2022	3:00PM-6:00PM	Modeling flip-flops and registers for sequential circuit design.
8	29/09/2022	3:00PM-6:00PM	Designing and simulating FSMs using Verilog for sequential logic applications.
9	30/09/2022	3:00PM-6:00PM	Developing testbenches, analyzing waveforms, and understanding simulation tools.
10	03/10/2022	4:00PM-6:00PM	Hands-on project to design and implement hardware using Verilog, integrating all learned topics.
11	04/10/2022	5:00PM-6:00PM	Assessment

Sudanshu Lenka

Sudanshu Lenka

(Course Instructor)

PChand

(HOD, CSE)

HOD
Computer Science Engg.

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

NOTICE

Date:10.09.2022

This is to inform all B. Tech students that the department of CSE will start an add-on course on " Verilog Training " starting from 21.09.2022. Interested students must register on or before 19.09.2022. The course details are as follows:

- Course name: Mastering Verilog through Guided Problem Solving
- Instructor name: Mr. Sudanshu Lenka
- Concerned person for Registration: Mr. Sudanshu Lenka

Principal
10/9/22

Principal
Trident Academy of Technology
Bhubaneswar-751024

Copy to:

(i) All HODs
(ii) DGMs
(iii) AO
(iv) All Notice Board

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Trident Academy of Technology
Bhubaneswar-751024

Date: 20.09.2022

To,

The Principal

Trident Academy of Technology,

Bhubaneswar

Subject: List of Students Enrolled for the Add-on Course on " Mastering Verilog through Guided Problem Solving".

Respected Sir,

We are going to start course on " Mastering Verilog through Guided Problem Solving " from 21.09.2022 and a total of 45 Students have enrolled for this course. This is for your kind information.

Sudanshu Lenka

(Course Instructor)

(HOD, CSE)

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TRIDENT ACADEMY OF TECHNOLOGY, BHUBANESWAR

F.M. 10 **Time:30minutes**

Date:04.10.2022

Verilog Training
ASSESSMENT

Name Of the Student: RONAK JENA
Regd No: 2106284026

8/10

All Questions Compulsory

Q1: What is Verilog used for?
A) Hardware Description Language (HDL) for designing digital circuits
B) Web development
C) Image editing
D) Word processing

Q2: What is the main purpose of an HDL like Verilog?
A) To model and simulate electronic circuit
B) To create spreadsheets
C) To design user interfaces
D) To write essays

Q3: Which of the following is a data type in Verilog?
A) reg B) floa C) string D) double

Q4: What is the role of the "always" block in Verilog?
A) Defines sequential or combinational logi
B) Terminates the program
C) Runs simulations indefinitel
D) Changes the data type of a variable

Q5: What does the "module" keyword define in Verilog?
A) A design unit in Verilog
B) A function in Verilog
C) A memory storage device
D) A comment block

Q6: What does the "initial" block do in Verilog?
A) Runs once at the beginning of a simulation
B) Runs continuously
C) Generates random numbers
D) Defines new data types

Q7: What is the significance of the "assign" statement in Verilog?
A) Used to assign values in combinational circuits
B) Used to create loops
C) Used for memory allocation
D) Used to delete variables

Q8: Which operator is used for bitwise AND in Verilog?
A) & B) | C) ^ D) ~

Q9: What is the purpose of a "testbench" in Verilog?
A) To simulate and verify the functionality of a design
B) To generate physical circuits
C) To store data permanently
D) To replace modules automatically

Q10: What is the significance of "posedge" in Verilog?
A) It detects a positive edge of a clock signal
B) It defines a new module
C) It executes a function call
D) It initializes memory

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Attendance Sheet

Name of the Teacher: Sudhanshu Lenka **Month/Year:** Sept/2022

Subject Code: **Branch:**

Subject: Verilog

Sl. No	REGD NO	NAME	21/09	22/09	23/09	24/09	26/09	27/09	28/09	29/09	30/09	03/10
1	2106289022	PRITI PRIYADARSHINI KALO	1	2	3	X	4	5	6	7	8	9
2	2106289023	RAHUL RAMAN BHOL	1	2	3	4	5	6	7	8	9	X
3	2106289024	RAJNI KUMARI LAGURI	1	2	3	4	5	6	7	8	9	X
4	2106289025	ROHAN KUMAR ACHARJYA	X	1	2	3	4	5	6	7	8	9
5	2106289026	RONAK JENA	X	1	2	3	4	5	6	7	8	9
6	2106289027	SAMEER PADHY	1	2	X	3	4	5	6	7	8	9
7	2106289028	SANGITA BEHERA	1	2	3	4	5	6	7	X	8	9
8	2106289029	SHRABANI KUMARI PANDA	1	2	3	4	5	6	X	7	8	9
9	2106289030	SIMRAN NAYAK	1	2	3	4	5	6	7	8	9	10
10	2106289031	SK HAMMAD ALI	1	2	3	4	5	6	7	8	9	10
11	2106289032	SMRUTI REKHA BESHRA	1	2	3	4	X	5	6	7	8	9
12	2106289033	SMRUTIREKHA SWAIN	X	1	2	3	4	5	6	7	8	9
13	2106289034	SOURAV PRASAD DAS	1	2	3	X	4	5	6	7	8	9
14	2106289035	SOVAN PANIGRAHI	1	2	3	4	5	6	7	8	9	10
15	2106289036	SUBHASHREE SUBHRAJYOTI NAYAK	1	2	3	4	5	6	7	8	9	10
16	2106289037	SUCHISMITA SAHOO	1	2	3	4	5	6	7	X	8	9
17	2106289038	SURYAKANTA TRIPATHY	1	2	3	4	5	6	7	8	9	10
18	2106289039	YASHASWINEE DASH	1	2	3	4	5	6	7	X	8	9
19	2106289001	ABHISEK PRATIHARI	1	2	3	4	5	6	X	7	8	9
20	2106289002	ABHISEK MISHRA	1	2	3	4	5	6	X	7	8	9
21	1901289042	ALAKANANDA SAHOO	X	1	2	3	4	5	6	7	8	9
22	1901289043	ALKA MAHARATHA	1	2	3	4	5	6	7	8	9	10
23	1901289044	AMAN KUMAR	1	2	3	4	5	6	7	8	9	10
24	1901289045	AMISHA DASH	1	2	3	4	5	6	7	8	9	10
25	1901289046	AMIT KUMAR DASH	1	2	3	4	5	6	7	8	9	10
26	1901289047	AMIYA GHADEI	1	2	3	4	5	6	X	7	8	9
27	1901289048	AMLIKA ROUTRAY	1	2	3	4	5	6	7	8	9	10
28	1901289049	AMRITSAI MOHARANA	2	2	3	4	5	6	7	X	8	9
29	1901289050	ANGELINA MAHARANA	1	2	3	4	5	6	7	8	9	10
30	1901289051	ANIL KUMAR SINGH	1	2	3	4	5	6	7	X	8	9
31	1901289052	ANIMESH PATTNAIK	1	2	3	4	5	6	7	8	9	10
32	1921289025	ANJALI MINZ	1	2	3	X	4	5	6	7	8	9
33	1901289053	ANKIT SINHA	1	2	X	3	4	5	6	7	8	9

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34	1901289054	ANKITA DASH	1	2	3	4	5	6	7	8	X	9
35	1901289055	ANKITA NAYAK	1	X	2	3	4	5	6	7	8	9
36	1901289056	ANKUR JAYASINGH	1	2	3	4	5	6	7	8	9	X
37	1901289057	ANTARYAMI MOHARANA	1	2	3	4	5	6	7	X	8	9
38	1901289058	ANUBHABI DAS	1	2	3	4	5	6	X	7	8	9
39	1901289059	ANURAG MISHRA	1	2	3	X	4	5	6	7	8	9
40	1901289060	ANURAG SATAPATHY	1	2	3	4	5	6	7	8	9	10
41	1901289091	DEBADUTTA PRADHAN	1	2	3	4	5	6	7	8	9	X
42	1901289092	DEBASHISH MAHATO	1	2	3	4	5	6	7	8	9	10
43	1901289093	DEBIPRASANNA PATTANAIK	1	2	3	4	5	6	7	8	9	10
44	1901289094	DEEPANKAR MALI	1	2	X	3	4	5	6	7	8	9
45	1901289095	DHARASHREE PATTANAYAK	1	2	3	4	5	6	7	8	9	X

Signature of Teacher

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Trident Academy of Technology

Attendance Sheet

Name of the Teacher: Sudhanshu Lenka **Month/Year:** Sept /2022

Subject Code: **Branch:**

Subject: Verilog

Sl. No	REGD NO	NAME	04/10									
1	2106289022	PRITI PRIYADARSHINI KALO	10									
2	2106289023	RAHUL RAMAN BHOL	10									
3	2106289024	RAJNI KUMARI LAGURI	10									
4	2106289025	ROHAN KUMAR ACHARJYA	10									
5	2106289026	RONAK JENA	10									
6	2106289027	SAMEER PADHY	10									
7	2106289028	SANGITA BEHERA	10									
8	2106289029	SHRABANI KUMARI PANDA	10									
9	2106289030	SIMRAN NAYAK	11									
10	2106289031	SK HAMMAD ALI	11									
11	2106289032	SMRUTI REKHA BESHRA	10									
12	2106289033	SMRUTIREKHA SWAIN	10									
13	2106289034	SOURAV PRASAD DAS	10									
14	2106289035	SOVAN PANIGRAHI	11									
15	2106289036	SUBHASHREE SUBHRAJYOTI NAYAK	11									
16	2106289037	SUCHISMITA SAHOO	10									
17	2106289038	SURYAKANTA TRIPATHY	11									
18	2106289039	YASHASWINEE DASH	10									
19	2106289001	ABHISEK PRATIHARI	10									
20	2106289002	ABHISEK MISHRA	10									
21	1901289042	ALAKANANDA SAHOO	10									
22	1901289043	ALKA MAHARATHA	11									
23	1901289044	AMAN KUMAR	11									
24	1901289045	AMISHA DASH	11									
25	1901289046	AMIT KUMAR DASH	11									
26	1901289047	AMIYA GHADEI	10									
27	1901289048	AMLIKA ROUTRAY	11									
28	1901289049	AMRITSAI MOHARANA	10									
29	1901289050	ANGELINA MAHARANA	11									
30	1901289051	ANIL KUMAR SINGH	10									
31	1901289052	ANIMESH PATTNAIK	11									
32	1921289025	ANJALI MINZ	10									
33	1901289053	ANKIT SINHA	10									

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34	1901289054	ANKITA DASH	9										
35	1901289055	ANKITA NAYAK	X										
36	1901289056	ANKUR JAYASINGH	10										
37	1901289057	ANTARYAMI MOHARANA	X										
38	1901289058	ANUBHABI DAS	10										
39	1901289059	ANURAG MISHRA	10										
40	1901289060	ANURAG SATAPATHY	11										
41	1901289091	DEBADUTTA PRADHAN	10										
42	1901289092	DEBASHISH MAHATO	11										
43	1901289093	DEBIPRASANNA PATTANAIK	X										
44	1901289094	DEEPANKAR MALI	X										
45	1901289095	DHARASHREE PATTANAYAK	10										

Signature of Teacher

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