

## 5.5 Innovations by the Faculty in Teaching and Learning

Dept. of CSE at TAT always adopts innovative methods in its academic delivery framework, i.e., the teaching and learning process, without disturbing the objectives of the course delivery. Thou but suffer from the drawback of making the students purely passive and gradually fade concentration after 15 to 20 minutes due to monotony.

At the same time, faculty delivering a lecture continuously for 25 to 30 minutes also dampens his/her tempo, and the delivery becomes unidirectional, i.e., without knowing students' response practical and real-life situations leading to learning from memorization but not understanding.

*“I hear & forget. I see, and I believe. I do, and I understand”.*

**Table B-5.5-1: Summary of Innovative Teaching techniques in Teaching Learning Process**

S.N.	Item	Description
1	<b>Usage of online platforms</b>	Faculty members use WhatsApp, google drive, Google classroom etc. for discussions as well as sharing of course materials.
2	<b>Usage of Modern Tools</b>	SMART BOARD, LCD Projectors Document Camera, Wireless Keyboard and mouse, Power Point Laser Presenter, Wireless Presenter, USB wireless pen mouse, Slide Changer, Wi-Fi enabled laptops are usually employed in classrooms and other student learning environments
3	<b>Reinforcement through student club activities</b>	Learning/Reinforcement of concepts is encouraged through the activities of various student clubs monitored by faculty coordinator.
4	<b>Innovative practices during regular TLP process</b>	During the lecture sessions, various innovative strategies like inquiry-based learning, team-based learning, activity-based learning, Role Play, Games, brain-storming methods, flip classroom techniques are also used.
5	<b>Usage of animated videos, models, charts</b>	During the lecture sessions animated videos, models, charts in TLP process.
6	<b>Availability of resources at institutional website</b>	The students and faculty members are encouraged to make use of the various resources available in the website, which enables research-based learning. Some of the resources, which are available in institution website given below.
7	<b>CISCO ThingQBator Lab</b>	Facilities for building digital skills, creating local solutions to local problems and facilitating student entrepreneurship. It is open for faculty members, students and outsiders to avail the makers' space facility in software/Hardware development activities.

**Table B.5.5-2: Summary of Innovative Teaching Technique used by Faculty for the academic year 2024-25**

Sl No.	Name	Designation	Computational thinking	Activities	Media	Modern Pedagogy	Augmentation	Games/ Analogy/ story telling	Crossover
1	Dr. Abhaya Kumar Samal	Professor			√		√	√	
2	Dr. Biswaranjan Nayak	Professor		√		√	√	√	
3	Dr. Padmabati Chand	Professor		√			√	√	
4	Mr. Sashi Bhusan Parida	Asso. Professor	√	√				√	
5	Dr. Subhra Swetanisha	Asso. Professor	√	√		√			
6	Dr. Sudhansu Ranjan Lenka	Asso. Professor		√		√		√	
7	Dr. Maya Nayak	Professor			√		√	√	
8	Dr. Manas Ranjan Choudhury	Asso. Professor		√		√		√	
9	Ms. Arpita Nibedita	Asst. Professor		√				√	

Sl No.	Name	Designation	Computational thinking	Activities	Media	Modern Pedagogy	Augmentation	Games/ Analogy/ story telling	Crossover
10	Mr. Rahul Ranjan	Asst. Professor			√		√	√	
11	Ms. Sasmita Mishra	Asst. Professor		√		√		√	
12	Mr. Aditya Narayan Das	Asst. Professor		√		√	√	√	
13	Dr. Sanjeev Narayan Bal	Asso. Professor		√		√		√	
14	Mr. Basudev Nath	Asst. Professor		√		√			
15	Mr. Sibananda Behera	Asst. Professor	√	√					
16	Dr. Simantika Ray	Asso. Professor		√		√		√	
17	Dr. Dakshya Prasad Pati	Asso. Professor		√				√	
18	Ms. Sumati Baral	Asst. Professor		√		√		√	
19	Mr. Biswajit Sarangi	Asst. Professor		√		√		√	
20	Mr Ashok Kumar Sahoo	Asst. Professor	√	√					
21	Ms. Pratiti Mishra	Asst. Professor		√		√		√	
22	Ms. Pralipta Samal	Asst. Professor		√		√		√	
23	Mr. Partha Sarathi Mishra	Asst. Professor		√		√		√	
24	Mr. Krushna Chandra Das	Asst. Professor		√		√		√	
25	Mr Debi Prasad Mohanty	Asst. Professor		√		√		√	
26	Ms. Dipalika Das	Asst. Professor		√		√			
27	Mr Rabiteja Patra	Asst. Professor		√		√		√	
28	Mr. Shyamalendu Pati	Asst. Professor		√		√		√	
29	Mr. Ranjeev Pradhan	Asst. Professor		√		√		√	
30	Ms. Kabita Sahoo	Asst. Professor		√		√		√	
31	Ms. Rani Dubey	Asst. Professor		√		√		√	
32	Ms. Yogasambhuta Dash	Asst. Professor		√		√		√	
33	Dr. Madhumita Panda	Asso. Professor		√		√		√	
34	Mr. Sibaprasad Pati	Asst. Professor		√		√		√	
35	Ms. Mamata Beura	Asst. Professor		√		√		√	
36	Mr. Mohini Prasad Mishra	Asst. Professor		√		√		√	

**Table B-5.5-3: Summary of Innovative Teaching Technique used by Faculty for the academic year 2023-24**

Sl No.	Name	Designation	Computational thinking	Activities	Media	Modern Pedagogy	Augmentation	Analogy/ story telling	Crossover
1	Dr. Abhaya Kumar Samal	Professor			√		√	√	
2	Dr. Biswaranjan Nayak	Professor		√		√	√	√	
3	Dr. Padmabati Chand	Professor		√			√	√	
4	Mr. Sashi Bhusan Parida	Asso. Professor	√	√				√	
5	Dr. Subhra Swetanisha	Asso. Professor	√	√		√			
6	Dr. Sudhansu Ranjan Lenka	Asso. Professor		√		√		√	
7	Dr. Maya Nayak	Professor			√		√	√	
8	Dr. Manas Ranjan Choudhury	Asso. Professor		√		√		√	
9	Ms. Arpita Nibedita	Asst. Professor		√				√	
10	Mr. Rahul Ranjan	Asst. Professor			√		√	√	
11	Ms. Sasmita Mishra	Asst. Professor		√		√		√	
12	Mr. Aditya Narayan Das	Asst. Professor		√		√	√	√	
13	Dr. Sanjeev Narayan Bal	Asso. Professor		√		√		√	
14	Mr. Basudev Nath	Asst. Professor		√		√			
15	Mr. Sibananda Behera	Asst. Professor	√	√					
16	Dr. Simantika Ray	Asso. Professor		√		√		√	

Sl No.	Name	Designation	Computational thinking	Activities	Media	Modern Pedagogy	Augmentation	Analogy/story telling	Crossover
17	Dr. Dakshya Prasad Pati	Asso. Professor		√				√	
18	Ms. Sumati Baral	Asst. Professor		√		√		√	
19	Mr. Biswajit Sarangi	Asst. Professor		√		√		√	
20	Mr Ashok Kumar Sahoo	Asst. Professor	√	√					
21	Ms. Pratiti Mishra	Asst. Professor		√		√		√	
22	Ms. Pralipta Samal	Asst. Professor		√		√		√	
23	Mr. Partha Sarathi Mishra	Asst. Professor		√		√		√	
24	Mr. Krushna Chandra Das	Asst. Professor		√		√		√	
25	Mr Debi Prasad Mohanty	Asst. Professor		√		√		√	
26	Ms. Dipalika Das	Asst. Professor		√		√			
27	Mr Rabiteja Patra	Asst. Professor		√		√		√	
28	Mr. Shyamalendu Pati	Asst. Professor		√		√		√	
29	Mr. Ranjeep Pradhan	Asst. Professor		√		√		√	
30	Ms. Kabita Sahoo	Asst. Professor		√		√		√	
31	Ms. Rani Dubey	Asst. Professor		√		√		√	
32	Ms. Yogasambhuta Dash	Asst. Professor		√		√		√	
33	Dr. Madhumita Panda	Asso. Professor		√		√		√	
34	Mr. Sibaprasad Pati	Asst. Professor		√		√		√	
35	Ms. Mamata Beura	Asst. Professor		√		√		√	
36	Mr. Mohini Prasad Mishra	Asst. Professor		√		√		√	

**Table B-5.5-4: Summary of Innovative Teaching Technique used by Faculty for the academic year 2022-23**

S.N	Faculty Name	Designation	Computational Thinking	Activities	Media	Modern Pedagogy	Augmentation	Games/Analogy/Story Telling	Coscover
1	Dr. Abhaya Kumar Samal	Professor			√		√	√	
2	Dr. Biswaranjan Nayak	Professor		√		√	√	√	
3	Dr. Padmabati Chand	Professor		√			√	√	
4	Mr. Sashi Bhusan Parida	Asso. Professor	√	√				√	
5	Dr. Subhra Swetanisha	Asso. Professor	√	√		√			
6	Dr. Sudhansu Ranjan Lenka	Asso. Professor		√		√		√	
7	Dr. Pragyam Paramita Das	Asst. Professor			√		√	√	
8	Dr. Manas Ranjan Choudhury	Asso. Professor		√		√		√	
9	Ms. Arpita Nibedita	Asst. Professor		√				√	
10	Mr. Rahul Ranjan	Asst. Professor			√		√	√	
11	Ms. Sasmita Mishra	Asst. Professor		√		√		√	
12	Mr. Aditya Narayan Das	Asst. Professor		√		√	√	√	
13	Dr. Sanjeev Narayan Bal	Asso. Professor		√		√		√	
14	Mr. Basudev Nath	Asst. Professor		√		√			
15	Mr. Sibananda Behera	Asst. Professor	√	√					
16	Dr. Simantika Ray	Asso. Professor		√		√		√	
17	Dr. Dakshya Prasad Pati	Asso. Professor		√				√	
18	Ms. Sumati Baral	Asst. Professor		√		√		√	
19	Mr. Biswajit Sarangi	Asst. Professor		√		√		√	
20	Mr Ashok Kumar Sahoo	Asst. Professor	√	√					
21	Ms. Pratiti Mishra	Asst. Professor		√		√		√	
22	Ms. Pralipta Samal	Asst. Professor		√		√		√	
23	Mr. Partha Sarathi Mishra	Asst. Professor		√		√		√	
24	Mr. Krushna Chandra Das	Asst. Professor		√		√		√	
25	Mr Debi Prasad Mohanty	Asst. Professor		√		√		√	
26	Ms. Dipalika Das	Asst. Professor		√		√			
27	Mr Rabiteja Patra	Asst. Professor		√		√		√	
28	Mr. Shyamalendu Pati	Asst. Professor		√		√		√	
29	Mr. Ranjeep Pradhan	Asst. Professor		√		√		√	
30	Ms. Kabita Sahoo	Asst. Professor		√		√		√	
31	Ms. Rani Dubey	Asst. Professor		√		√		√	
32	Ms. Yogasambhuta Dash	Asst. Professor		√		√		√	
33	Ms. Milan Samantray	Asst. Professor		√		√		√	
34	Mr. Sibaprasad Pati	Asst. Professor		√		√		√	
35	Ms. Archana Rout	Asst. Professor		√		√		√	

**Dept. of CSE always attempts to implement best practices to deliver enhanced academic quality. With this philosophy, the dept. adopts following best practices to enhance learning experience of students.**

- Encouraging presentation of innovative business ideas during the weekly Saturday sessions.
- Having a separate Centre for Sustainability Research to educate students the importance of Net Zero and sustainable development goals of the United Nations in the future business practices, ensuring diversity, equity and inclusion in the student community and faculty.
- Having a vibrant inter-disciplinary start-up community, which involves students of Technology, Management and Bioscience?
- Students are continuously coached on how to convert challenges to opportunity.
- Apart from Mentor/ mentee relationships, there is a system of study-buddy. In both these

systems, the hidden complexity present in the lives of students comes out which gets solved through peers and mentors.

Always innovation in teaching and learning is a continuous process where faculty members always try to find out innovative approaches so that they can impart the teaching in a better way. All of our faculty members in our college try to put innovative approach from which some approaches get its nod for implementation due to its positive aspects. The following innovative learning approaches are their subjects in a better manner.

We have exhibited few different types of innovation in teaching and learning process such as:

- Weekly performance measure through Quiz test Approach. Modularize Project Based Learning Approach.
- Acquiring Software Project Analysis skill through competition based case studies/problem statement Approach.
- Motivating students for Enrollment in Hacker rank, Hackers Earth etc. software project skill/job platform.
- Effective use of working models/Animation/PPTs.
- Active initiation for Organizing Hackathon Competition Programs in our college.
- Reinforcement through student club activities.
- Reinforcement through student club activities.

All the above innovative approaches have been elaborated in the Table B.5.5-2 with their prime objective/focus. The information is displayed in our Institute website (link: <https://tat.ac.in/acade> Table B.5.5-2: List of Innovations by Faculty)

**Table B-5.5-5: List of Innovations by Faculty members for Teaching Learning**

SI No	Name of the Faculty	Innovation Title	Innovation Objective/Focus	Year
1	Mr. Aditya Narayan Das	Weekly performance measure through Quiz test Approach	The primary objective is to generate student interest in the theory subjects by conducting a quiz test in every week where the questions are based on the topic covered in that week. We may keep some mark addition from that in the internal assessment as well as at the end of the course, the top ranked students will be awarded. Therefore, this approach will make the students to be engaged in everyday class teaching. This can be applied in all type of subjects irrespective of whether the subject is conceptual based/programming based.	2022-23
2	Mr. Aditya Narayan Das Ms. Sumati Baral Mr. Rahul Ranjan	Modularize Project Based Learning Approach	In this approach, we ask the students to make a small project once a module is completed so that at the end of the completion of the subject, each student may able to make at least four small projects. So, their confidence will be enhanced for making a project. Through this process, they can get interested in software projects. Also at the time of final year project, it will be easier for them to carry out the project effectively. In addition, it will boost their project development skill, which can be reflected in placement interview so that their success rate will be more.	2022-23

Sl No	Name of the Faculty	Innovation Title	Innovation Objective/Focus	Year
3	Dr. Biswaranjan Nayak	Software Project Analysis through competition based case studies/ problem statements Approach.	In this approach, we make students ready to have their knowledge expertise in software project analysis before they study the software engineering subject. Therefore, we conduct Hackathon competitions in our college every year, where students are asked to develop software based upon one case study/problem statement. The Hackathon program is 24 hours continuously program development in our college campus. All the participants are asked to submit the use case diagrams/Data flow diagrams based upon their given case study. So We teach them the basic principles of software project analysis through use case diagram/data flow diagram. So the participants can take part in other hackathon program like Smart India Hackathon competitions where software project analysis in one of the pre-requisite skill. In addition, it helps them in final year project work.	2023-24
4	Mr. Aditya Narayan Das	Motivating students for Enrollment in Hacker rank, Hackers Earth like software project skill platform.	In this approach, we make the first year students to get interest in software projects through making themselves register for Hacker rank and that type of programs. The site helpsthe candidates to sharpen their technical skills and pursue job opportunities. So, they become enthusiastic in development of software projects. As Hackers rank and same related ranking sites helps the high ranked students in directly placement activities, students find themselves to be hooked for Ranking program enrollment. Therefore, this process makes the student to get involved in software project development from the first year, which is fruitful in the final year campus placement programs.	2021-25
5	Faculty Members of Computer Science Engineering	Organizing Hackathon Competition Programs in Trident Academy of Technology.	In this approach, we conduct Hackathon Competitions in both Intra & Inter college mode though which students can develop various software applications within a continuous stretch of time period (24/36 hours) sitting in one place of designated competition hall and the outcome is evaluated by prominent industry experts along with felicitation with awards and certificates. It gives the students a practical exposure on software development application on the spot where they are able to highlight their learning skill of programming knowledge. It helps their confidence level in programming development applications so that they get advantage in placement selection.	2021-25

**Table B-5.5-6: Description of Instructional Methods for Teaching Learning Process**

Instructional Method	Description
Reciprocal Questioning	Divide the students into groups and ask them to come up with questions related to the topic covered. They ask as many questions as they can and the other groups answer those questions. Each group takes turns asking their own questions.
Peer Teaching Activities	Ask the students to instruct their classmates as a teacher would do. This enhances student interaction and group-building skills.
The Pause Procedure	Break the lecture into parts with small breaks in between. Ask the students to jot down the doubts during the breaks and then discuss them with peers.
Peer Teaching	Group study, as many call it, is a famous technique to improve learning. Peer teaching is one of those innovative teaching strategies that help improve understanding of the subject and also strengthen interpersonal skills.
Mistake-Led Teaching	Present a passage or content full of mistakes. Divide the class into groups and ask them to identify mistakes. Have credits against each correct mistake pointed out.
Lesson Objective Clarity	It is a good practice to tell the motto or goal of learning in advance so that students are aware of what they are working on.

## **Video-based home assignment as part of Innovative Teaching.**

**Faculty: Rahul Ranjan, Asst. Professor, CSE**

**EventDate: 12 Aug 2025 to 18 Aug 2025**

**Q1 Video Assignment- To know Competitive platform & problem solving using test cases [Video Limit 100sec]**

### **Benefits**

- **To know importance of competitive platform in Campus recruitment**
- **Improve problem solving using test cases**



**Event Awareness Video: <https://www.youtube.com/watch?v=BMPtPR2dtm4>  
<https://www.youtube.com/watch?v=OdUPkcaW5M4>**

Sln o	Regd No	Name	Branch	Year	Video Submission Link
1	2401289072	IPSITA SAHOO	CSE	2nd	<a href="https://drive.google.com/file/d/1PtQ3GF9YXUk2fD4wS38WXInkIzydhAn/view?usp=drivesdk">https://drive.google.com/file/d/1PtQ3GF9YXUk2fD4wS38WXInkIzydhAn/view?usp=drivesdk</a>
2	2401289067	Gaytri parija	CSE	2nd	<a href="https://drive.google.com/file/d/1nobYhn6G3QwbTivUcooN5jcfiIs_rC5c/view?usp=drivesdk">https://drive.google.com/file/d/1nobYhn6G3QwbTivUcooN5jcfiIs_rC5c/view?usp=drivesdk</a>
3	2401289037	ALISHA SINGH	CSE	2nd	<a href="https://drive.google.com/file/d/1mcguaCIIjJDdZl6vDJZz5B-q3Wq5S7T3/view?usp=drivesdk">https://drive.google.com/file/d/1mcguaCIIjJDdZl6vDJZz5B-q3Wq5S7T3/view?usp=drivesdk</a>
4	2401289078	JINGYA SHA MISHRA	CSE	2nd	<a href="https://drive.google.com/file/d/15PhpSSkgNsE4JjzLjtrq4m7-ZpMXssKp/view?usp=drivesdk">https://drive.google.com/file/d/15PhpSSkgNsE4JjzLjtrq4m7-ZpMXssKp/view?usp=drivesdk</a>
5	2401289034	Aiswarya Das	CSE	2nd	<a href="https://drive.google.com/file/d/11vQDRmyNqyOilwMHsAlakVNM_somFcQP/view?usp=drivesdk">https://drive.google.com/file/d/11vQDRmyNqyOilwMHsAlakVNM_somFcQP/view?usp=drivesdk</a>
6	2401289073	Itishree Pradhan	CSE	2nd	<a href="https://drive.google.com/file/d/1t5tBunCfUqs31JAeqodhTKW_NcPQsMyV/view?usp=drivesdk">https://drive.google.com/file/d/1t5tBunCfUqs31JAeqodhTKW_NcPQsMyV/view?usp=drivesdk</a>
7	2401289056	Barsha Rani Samal	CSE	2nd	<a href="https://drive.google.com/file/d/1pzq27xIH1RkkMEHuBns4sLQ7ISGbB0Rn/view?usp=drivesdk">https://drive.google.com/file/d/1pzq27xIH1RkkMEHuBns4sLQ7ISGbB0Rn/view?usp=drivesdk</a>

8	2401289 054	Baisakhi Mohanty	CSE	2nd	<a href="https://drive.google.com/file/d/1eeAKM7aldk1P6jptOQyKceCwhD9HuS5O/view?usp=drivesdk">https://drive.google.com/file/d/1eeAKM7aldk1P6jptOQyKceCwhD9HuS5O/view?usp=drivesdk</a>
9	2401289 040	Ankita kumari	CSE	2nd	<a href="https://drive.google.com/file/d/1ns37FVm3PhQPF5FOVLH7UpKxNBz5z8Kr/view?usp=drivesdk">https://drive.google.com/file/d/1ns37FVm3PhQPF5FOVLH7UpKxNBz5z8Kr/view?usp=drivesdk</a>
10	2401289 037	ALISHA SINGH	CSE	2nd	<a href="https://drive.google.com/file/d/1mcguaCIIjDdZl6vDJZz5B-q3Wq5S7T3/view?usp=drivesdk">https://drive.google.com/file/d/1mcguaCIIjDdZl6vDJZz5B-q3Wq5S7T3/view?usp=drivesdk</a>
11	2401289 064	Divyansh Parija	CSE	2nd	<a href="https://drive.google.com/file/d/1iuoC3OX8faWO9qLG6cmYfYqoG3zVF0M4/view?usp=sharing">https://drive.google.com/file/d/1iuoC3OX8faWO9qLG6cmYfYqoG3zVF0M4/view?usp=sharing</a>
12	2401289 072	IPSITA SAHOO	CSE	2nd	<a href="https://drive.google.com/file/d/1PtQ3GFe9YXUk2fD4wS38WXINKIzdyhAn/view?usp=drivesdk">https://drive.google.com/file/d/1PtQ3GFe9YXUk2fD4wS38WXINKIzdyhAn/view?usp=drivesdk</a>
13	2401289 072	Ipsita Sahoo	CSE	2nd	<a href="https://drive.google.com/file/d/1PtQ3GFe9YXUk2fD4wS38WXINKIzdyhAn/view?usp=drivesdk">https://drive.google.com/file/d/1PtQ3GFe9YXUk2fD4wS38WXINKIzdyhAn/view?usp=drivesdk</a>
14	2401289 047	Ashis Kumar Nayak	CSE	2nd	<a href="https://drive.google.com/file/d/1eNboBEzmV7nad9Pa82z3KzjSuYW1PWY/view?usp=drivesdk">https://drive.google.com/file/d/1eNboBEzmV7nad9Pa82z3KzjSuYW1PWY/view?usp=drivesdk</a>
15	2401289 058	Bisakha Behera	CSE	2nd	<a href="https://drive.google.com/file/d/1-7DxuN_1I8sQJ6lNn7lykpg2OiRbyTen/view?usp=drivesdk">https://drive.google.com/file/d/1-7DxuN_1I8sQJ6lNn7lykpg2OiRbyTen/view?usp=drivesdk</a>
16	2401289 046	Ashirbad Das	CSE	2nd	<a href="https://drive.google.com/file/d/1IQCLsoPXnanlP7INXTRoRDa9x4_jMfLs/view?usp=drivesdk">https://drive.google.com/file/d/1IQCLsoPXnanlP7INXTRoRDa9x4_jMfLs/view?usp=drivesdk</a>
17	2401289 031	Adya Anwasha Dash	CSE	2nd	<a href="https://drive.google.com/file/d/1HImrkbRk7FlyWxgXJ_9fDBgULWliXfvh/view?usp=drivesdk">https://drive.google.com/file/d/1HImrkbRk7FlyWxgXJ_9fDBgULWliXfvh/view?usp=drivesdk</a>
18	2401289 034	Aiswarya Das	CSE	2nd	<a href="https://drive.google.com/file/d/11vQDRmyNqyOilwMHsAlakVNM_somFcQP/view?usp=drivesdk">https://drive.google.com/file/d/11vQDRmyNqyOilwMHsAlakVNM_somFcQP/view?usp=drivesdk</a>
19	2401289 039	Anisha Dogra	CSE	2nd	<a href="https://drive.google.com/file/d/1Es3sUN2Xx0R48BL5eDwXH-KLnIAtgby/view?usp=drivesdk">https://drive.google.com/file/d/1Es3sUN2Xx0R48BL5eDwXH-KLnIAtgby/view?usp=drivesdk</a>
20	2401289 080	Khushi parida	CSE	2nd	<a href="https://drive.google.com/file/d/1AbDNWfCq-MAH-O8LZn0ULLfQJ6PaTcj/view?usp=drivesdk">https://drive.google.com/file/d/1AbDNWfCq-MAH-O8LZn0ULLfQJ6PaTcj/view?usp=drivesdk</a>
21	2401289 073	Itishree Pradhan	CSE	2nd	<a href="https://drive.google.com/file/d/1t5tBunCfUqs31JAEqodhTKW_NcPQsMyV/view?usp=drivesdk">https://drive.google.com/file/d/1t5tBunCfUqs31JAEqodhTKW_NcPQsMyV/view?usp=drivesdk</a>
22	2401289 055	Barsha Rani Rout	CSE	2nd	<a href="https://drive.google.com/file/d/19lj6zqQLJE3QEPujhnrTCXE-pGKzmZ9/view?usp=drivesdk">https://drive.google.com/file/d/19lj6zqQLJE3QEPujhnrTCXE-pGKzmZ9/view?usp=drivesdk</a>
23	2401289 067	Gaytri parija	CSE	2nd	<a href="https://drive.google.com/file/d/1nobYhn6G3QwbtiVUcooN5jcfiIs_rC5c/view?usp=drivesdk">https://drive.google.com/file/d/1nobYhn6G3QwbtiVUcooN5jcfiIs_rC5c/view?usp=drivesdk</a>
24	2401289 052	B.S Lugna Dash	CSE	2nd	<a href="https://drive.google.com/file/d/1tli3rcBuE9kRGzneXzZAPzIWAD6GEiqQ/view?usp=drivesdk">https://drive.google.com/file/d/1tli3rcBuE9kRGzneXzZAPzIWAD6GEiqQ/view?usp=drivesdk</a>
25	2401289 053	Baijayanti P Dash	CSE	2nd	<a href="https://drive.google.com/file/d/1EpUabuxr8Jvw5wddfQw7ihC6be2BSu0x/view?usp=drivesdk">https://drive.google.com/file/d/1EpUabuxr8Jvw5wddfQw7ihC6be2BSu0x/view?usp=drivesdk</a>
26	2401289 039	Anisha Dogra	CSE	2nd	<a href="https://drive.google.com/file/d/1Es3sUN2Xx0R48BL5eDwXH-KLnIAtgby/view?usp=drivesdk">https://drive.google.com/file/d/1Es3sUN2Xx0R48BL5eDwXH-KLnIAtgby/view?usp=drivesdk</a>
27	2401289 043	Aradhana Mishra	CSE	2nd	<a href="https://drive.google.com/file/d/1WkZq9VoG7cKDHYdKvIW19dmUIUX8cYQk/view?usp=drivesdk">https://drive.google.com/file/d/1WkZq9VoG7cKDHYdKvIW19dmUIUX8cYQk/view?usp=drivesdk</a>
28	2401289 041	Anshuma n Dash	CSE	2nd	<a href="https://drive.google.com/file/d/1-ZzKqsjWRInpYkj_ozbSRqZ-Oyu0yW36/view?usp=drivesdk">https://drive.google.com/file/d/1-ZzKqsjWRInpYkj_ozbSRqZ-Oyu0yW36/view?usp=drivesdk</a>
29	2401289 078	JINGYA SHA MISHRA	CSE	2nd	<a href="https://drive.google.com/file/d/15PhpSSkgNsE4JzLjtrq4m7-ZpMXssKp/view?usp=drivesdk">https://drive.google.com/file/d/15PhpSSkgNsE4JzLjtrq4m7-ZpMXssKp/view?usp=drivesdk</a>
30	2401289 067	Gaytri parija	CSE	2nd	<a href="https://drive.google.com/file/d/1nobYhn6G3QwbtiVUcooN5jcfiIs_rC5c/view?usp=drivesdk">https://drive.google.com/file/d/1nobYhn6G3QwbtiVUcooN5jcfiIs_rC5c/view?usp=drivesdk</a>

**Q2 Video Assignment- Importance Competitive platform and their benefits[12 Apr -15 Apr2024]**

- **Improve Problem-Solving Skills – Develops logical and analytical thinking.**
- **Increase Coding Efficiency – Improves speed, accuracy, and optimization.**
- **Interview Preparation – Helps in cracking technical tests and coding rounds.**
- **Global Exposure – Compete with programmers worldwide.**
- **Career Opportunities – Attracts attention from top recruiters.**

Sln o	RegdNo	Student Name	Video Answer Link
1	22012893 41	Arpita Dutta	<a href="https://drive.google.com/file/d/1FXlukoMVRILLtxb8MrwzxD5GVdfPMoZD/view">https://drive.google.com/file/d/1FXlukoMVRILLtxb8MrwzxD5GVdfPMoZD/view</a>
2	22012893 89	Md Salman Shah	<a href="https://drive.google.com/file/d/19gWlmsKWlyjENnNtmmN9MUOUzlg4c130/view?usp=drivesdk">https://drive.google.com/file/d/19gWlmsKWlyjENnNtmmN9MUOUzlg4c130/view?usp=drivesdk</a>
3	22012893 88	Mohammad Atiqur Rahman	<a href="https://drive.google.com/file/d/1_vMOKVN9yAVXWR-mubmfDXwjc5PZ5_nt/view">https://drive.google.com/file/d/1_vMOKVN9yAVXWR-mubmfDXwjc5PZ5_nt/view</a>
4	22012893 86	Megna Das	<a href="https://drive.google.com/file/d/1bv07ebo-6EewyARYoswd6E5rJxWWONrZ/view?usp=sharing">https://drive.google.com/file/d/1bv07ebo-6EewyARYoswd6E5rJxWWONrZ/view?usp=sharing</a>
5	22012893 40	Anushree Pramanik	<a href="https://drive.google.com/file/d/1mzZTdrfbbH3dX6bGmNBpYkp7SmvnRrFV/view?usp=drivesdk">https://drive.google.com/file/d/1mzZTdrfbbH3dX6bGmNBpYkp7SmvnRrFV/view?usp=drivesdk</a>
6	22012893 75	Khushboo Rani	<a href="https://drive.google.com/file/d/1UQV13G6FcZfXb5aRjQ_SSBuiajt6UxdA/view?usp=sharing">https://drive.google.com/file/d/1UQV13G6FcZfXb5aRjQ_SSBuiajt6UxdA/view?usp=sharing</a>
7	22012893 93	Nauseen Ahmed	<a href="https://drive.google.com/file/d/17ykSJyUqf28I6wcFWP90BJhX6T-4tDY/view?usp=drivesdk">https://drive.google.com/file/d/17ykSJyUqf28I6wcFWP90BJhX6T-4tDY/view?usp=drivesdk</a>
8	22012893 79	Leeza rani Biswal	<a href="https://drive.google.com/file/d/12DiUhU3FZns5NjMeeBVMejU9FXogrEw0/view?usp=drivesdk">https://drive.google.com/file/d/12DiUhU3FZns5NjMeeBVMejU9FXogrEw0/view?usp=drivesdk</a>
9	22012893 99	Nur Mahammad	<a href="https://youtu.be/d-4h2Tb0Iyg">https://youtu.be/d-4h2Tb0Iyg</a>
10	22012893 36	Anand kumar	<a href="https://drive.google.com/file/d/1UOLKvcvLYauLDleVy5bBRh2KPnFmtkJH/view?usp=drivesdk">https://drive.google.com/file/d/1UOLKvcvLYauLDleVy5bBRh2KPnFmtkJH/view?usp=drivesdk</a>
11	22012893 29	Abhijit Behera	<a href="https://youtube.com/watch?v=782pD2GhC1g&amp;feature=shared">https://youtube.com/watch?v=782pD2GhC1g&amp;feature=shared</a>
12	22012893 31	Abhisekh sahu	<a href="https://www.youtube.com/watch?v=xE9eyYwKAew">https://www.youtube.com/watch?v=xE9eyYwKAew</a>
13	22012893 78	Kumudranjan Mohanta	<a href="https://mail.google.com/mail/u/0/#inbox/FMfcgzGxRnjJkrGKGRgGcLgLDXcTMZB?projector=1">https://mail.google.com/mail/u/0/#inbox/FMfcgzGxRnjJkrGKGRgGcLgLDXcTMZB?projector=1</a>
14	22012893 53	Chandan Behera	<a href="https://drive.google.com/file/d/1K2UjAshljGps98h08EvxhzVoR2mPxx7C/view?usp=drivesdk">https://drive.google.com/file/d/1K2UjAshljGps98h08EvxhzVoR2mPxx7C/view?usp=drivesdk</a>
15	22012893 68	Ishanjeet Singh Arora	<a href="https://drive.google.com/drive/folders/1m664qCIj4autNK5RNzYG6a2FGI7_r1KV">https://drive.google.com/drive/folders/1m664qCIj4autNK5RNzYG6a2FGI7_r1KV</a>
16	22012893 66	Gyanesh Kumar Mudi	<a href="https://drive.google.com/file/d/1cTBiJrx7v3q81iWzQy11rO22EY15mz3a/view?usp=drivesdk">https://drive.google.com/file/d/1cTBiJrx7v3q81iWzQy11rO22EY15mz3a/view?usp=drivesdk</a>
17	22012893 63	Durlabha Seth	<a href="https://drive.google.com/file/d/1ffYb79eqERdpeYdjzXMvJ2TFIQRi_9ox/view?usp=sharing">https://drive.google.com/file/d/1ffYb79eqERdpeYdjzXMvJ2TFIQRi_9ox/view?usp=sharing</a>
18	22012893 65	Gourav Behera	<a href="https://drive.google.com/file/d/12eGIJkDeQf1buJbi1SvAXMEWu-8vfJfs/view?usp=drivesdk">https://drive.google.com/file/d/12eGIJkDeQf1buJbi1SvAXMEWu-8vfJfs/view?usp=drivesdk</a>

19	22012893 64	Nikita Rout	<a href="https://drive.google.com/file/d/12BrUYdnLIw-FcmJOsAWTTLIcbXtmRRB/view?usp=drivesdk">https://drive.google.com/file/d/12BrUYdnLIw-FcmJOsAWTTLIcbXtmRRB/view?usp=drivesdk</a>
20	22012893 73	Jyotiranjana Jena	<a href="https://drive.google.com/drive/folders/12UqeExqUvdtfa9dd_fxEhc9Jqhy98c2x">https://drive.google.com/drive/folders/12UqeExqUvdtfa9dd_fxEhc9Jqhy98c2x</a>
21	22012894 00	Omm ankit choudhury	<a href="https://drive.google.com/file/d/11cp09UmHjS49PUrVAJ_c4TkG9s3AZ3Zw/view?usp=drivesdk">https://drive.google.com/file/d/11cp09UmHjS49PUrVAJ_c4TkG9s3AZ3Zw/view?usp=drivesdk</a>
22	22012893 39	Anshuraj Sahoo	<a href="https://drive.google.com/file/d/10XI1jE_OI6n2FV7QsjFDkTA5kKAPE_-F/view?usp=drivesdk">https://drive.google.com/file/d/10XI1jE_OI6n2FV7QsjFDkTA5kKAPE_-F/view?usp=drivesdk</a>
23	22012893 64	Ganesh Panda	<a href="https://drive.google.com/file/d/13PKo2-5y3RpZ9G9VHazuXx-HGpmZdtQY/view?usp=drivesdk">https://drive.google.com/file/d/13PKo2-5y3RpZ9G9VHazuXx-HGpmZdtQY/view?usp=drivesdk</a>
24	22012893 85	Manisha Rajindra	<a href="https://drive.google.com/file/d/1Ok_fjFn_YdyWI-VpGSJn-NhwXNDgYtX/view?usp=drivesdk">https://drive.google.com/file/d/1Ok_fjFn_YdyWI-VpGSJn-NhwXNDgYtX/view?usp=drivesdk</a>

**Submit Video answer in between 17Feb 2024 to 25Feb 2024**

**Q3 What is application area What are the application areas of Data Structures (DS) and Design & Analysis of Algorithms (DAA)?**

**Benefits**

Arrays & Linked Lists → Music Playlists / Contacts List

Stacks → Undo/Redo in MS Word, Browser Back Button

Queues → Ticket Booking, Printer Queue

Graphs → Google Maps, Social Media (Facebook friends network)

Hash Table → Password storage, Database indexing, Caching

RegdNo	Student Name	Video assignment submitted by the Students
22012893 75	Khushboo Rani	<a href="https://drive.google.com/file/d/1KkwOY-hWZFeLOIQmfz35E56vWrLKF_n/view?usp=drivesdk">https://drive.google.com/file/d/1KkwOY-hWZFeLOIQmfz35E56vWrLKF_n/view?usp=drivesdk</a>
22012893 86	Megna Das	<a href="https://drive.google.com/file/d/1024HFQoGZ9Ip_KHwbXOFyF3ddDLHcWEK/view?usp=drive_link">https://drive.google.com/file/d/1024HFQoGZ9Ip_KHwbXOFyF3ddDLHcWEK/view?usp=drive_link</a>
22012893 31	Abhisekh sahoo	<a href="https://drive.google.com/file/d/1KL-vJxdV_hivSCeD3JEiYeK32Caa-oPQ/view?usp=drivesdk">https://drive.google.com/file/d/1KL-vJxdV_hivSCeD3JEiYeK32Caa-oPQ/view?usp=drivesdk</a>
22012893 91	Moira Sahoo	<a href="https://drive.google.com/file/d/16iJu_4dNwmBsS_oCd9RZCF903BLyUT_5/view?usp=sharing">https://drive.google.com/file/d/16iJu_4dNwmBsS_oCd9RZCF903BLyUT_5/view?usp=sharing</a>
23212890 21	AshutoshMahapatra	<a href="https://drive.google.com/file/d/1jHVxtzdnSiZ-OV23Db9u_sQpamxoxqaJ/view">https://drive.google.com/file/d/1jHVxtzdnSiZ-OV23Db9u_sQpamxoxqaJ/view</a>
22012893 41	Arpita Dutta	<a href="https://drive.google.com/file/d/1EI2qxeGJaHSblxw2o6QrFu_vNb41Chj2/view?usp=drive_link">https://drive.google.com/file/d/1EI2qxeGJaHSblxw2o6QrFu_vNb41Chj2/view?usp=drive_link</a>
22012893 40	Anushree Pramanik	<a href="https://drive.google.com/file/d/1kTnHvPSN6hE-MILG3A8tK-ckJin2rAjE/view">https://drive.google.com/file/d/1kTnHvPSN6hE-MILG3A8tK-ckJin2rAjE/view</a>
22012893 79	Leezarani Biswal	<a href="https://drive.google.com/file/d/1NfdKeSmFJ8plf9cGGGjZ5W4jZKAKhOH5/view?usp=sharing">https://drive.google.com/file/d/1NfdKeSmFJ8plf9cGGGjZ5W4jZKAKhOH5/view?usp=sharing</a>
22012893 33	Amisha Chinnara,	<a href="https://drive.google.com/file/d/1k_GJct26dDpFuYIdCabYaSsO4b5lar1B/view">https://drive.google.com/file/d/1k_GJct26dDpFuYIdCabYaSsO4b5lar1B/view</a>
22012893 93	Nauseen Ahmed	<a href="https://drive.google.com/file/d/17Hyf6jCxfdc8wENbNvzIUiHWJmLM2JdX/view">https://drive.google.com/file/d/17Hyf6jCxfdc8wENbNvzIUiHWJmLM2JdX/view</a>
22012893 77	Kiran Swain	<a href="https://drive.google.com/file/d/116PIG7M5ELBb8tO7MbadRcdyZSIFHI3w/view">https://drive.google.com/file/d/116PIG7M5ELBb8tO7MbadRcdyZSIFHI3w/view</a>
22102893 78	Kumudranjan Mohanta	<a href="https://drive.google.com/file/d/1fnRfDORKCCUECn0bfMnjaYAEucbI7Ei/view">https://drive.google.com/file/d/1fnRfDORKCCUECn0bfMnjaYAEucbI7Ei/view</a>
22012893 38	Anialisha Palai	<a href="https://drive.google.com/file/d/1fOOqh7vzgJC6_145p8vzCgSKlg6f6qfh/view?ts=65d1b3e7">https://drive.google.com/file/d/1fOOqh7vzgJC6_145p8vzCgSKlg6f6qfh/view?ts=65d1b3e7</a>
22012893 29	Abhijit Behera	<a href="https://drive.google.com/file/d/1FywSfzOeUZDmFge_w-5s3SONC3MKyE3v/view">https://drive.google.com/file/d/1FywSfzOeUZDmFge_w-5s3SONC3MKyE3v/view</a>