



## Yearly Status Report - 2016-2017

### Part A

#### Data of the Institution

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	TRIDENT ACADEMY OF TECHNOLOGY
Name of the head of the Institution	PROF. (DR.) MAHENDRA NATH DWIBEDI
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	09437122660
Mobile no.	9861191195
Registered Email	info@trident.ac.in
Alternate Email	pri@tat.ac.in
Address	F2/A, Chandaka Industrial Estate, Infocity Area, Chandrasekharpur
City/Town	Bhubaneswar
State/UT	Orissa
Pincode	751024

<b>2. Institutional Status</b>					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Urban			
Financial Status		private			
Name of the IQAC co-ordinator/Director		Dr. Sidhartha Sankar Mohapatra			
Phone no/Alternate Phone no.		09437315446			
Mobile no.		9337779181			
Registered Email		iqac@tat.ac.in			
Alternate Email		pri@tat.ac.in			
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)		<a href="https://tat.ac.in">https://tat.ac.in</a>			
<b>4. Whether Academic Calendar prepared during the year</b>		Yes			
if yes, whether it is uploaded in the institutional website: Weblink :		<a href="https://tat.ac.in/academics/calendar/">https://tat.ac.in/academics/calendar/</a>			
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.69	2016	02-Dec-2016	01-Dec-2021
<b>6. Date of Establishment of IQAC</b>			07-Dec-2016		
<b>7. Internal Quality Assurance System</b>					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries	
Entrepreneurship Awareness camp (EAC) by National Science and		13-Aug-2016 3		34	

Entrepreneurship Development Board, by C.R.Pattanaik, regional co-ordinator EDII, Bhubaneswar		
Workshop on Internet of Things by Mr. Saswat Sekhar Sahoo of Yajas Technology, Bhubaneswar.	30-Aug-2016 1	25
Workshop on Embedded System -PCB design and simulation on KEIL and PROTEUS by N-Technology Research Center Pvt.Ltd by Mr. Ram Patra.	02-Sep-2016 2	40

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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
TRIDENT ACADEMY OF TECHNOLOGY	IEDC	DST	2016 365	786182

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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View Link](#)

**10. Number of IQAC meetings held during the year :**

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View Uploaded File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

- All the departments were encouraged to conduct seminars, workshops, conferences

etc. three workshops and three technical talks were conducted in this academic year. • Members of faculty and staff were encouraged to upgrade their knowledge by attending seminars, workshops and conferences. • The faculty members of the institute were encouraged and supported to present and publish research papers in reputed national and international journals, • Students were also encouraged to undertake projects and industrial tours. Industrial tours were conducted to places like Doordarshan Kendra and BSNL(RTTC). • Students were encouraged to take up higher studies by appearing in the exams like GATE, CAT, XAT.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achievements/Outcomes
Preparation of AQAR for current Academic Year. Objective: To stick to the timeline for submission of AQAR	Outcome: Collection and organization of academic and administrative data systematically to ensure timely submission of the AQAR
Organizing conclaves/ conferences /Workshop on various subjects	Technical talks were delivered to students and faculty members on "Magnetic Nanotechnology: Past, Present and Future" Geoinformatics and Switching Techniques National Conclave on Telecom Switching. Transmission and IP Networking was organized.
Enriching the curriculum by augmenting the number of add-on courses Objective: To update knowledge and skills of the students for better job opportunities	Other than the regular courses imparted to the students the students were given additional courses in Advance Java and CCNA. Experts from industry and corporate bodies were invited to motivate them and help them in managing stress, develop emotional intelligence.
Development of e-content and e Resources	Faculty members were motivated by the IQAC for the upgradation of e content and development of innovative pedagogic tools for better dissemination of knowledge and develop e-content which were made available to the students.
To improve students' Communication skills to improve their Industry-readiness.	Remedial classes for the relatively weaker group of students in English Communication were conducted by inhouse and guest faculties which helped them to a great extent to communicate with confidence and they performed well in the subsequent interviews.
There was a proposal for a bit modification in the college website in terms of easy accessibility and more informative.	The students were informed about the College facilities, Opportunities and activities. E-governance in attendance was initiated. Information related to placement activities were given a special corner and excluded from the general notice.

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

D-FOUNDATION

15-Dec-2016

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2017

Date of Submission

09-Feb-2017

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

E GOVERNANCE DEVELOPED BY OUR INHOUSE IT DEPARTMENT The area where EGovernance is operational 1. Library 2.Finance 3. Maintenance 4.Academic

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Trident Academy of Technology (TAT), is an affiliated college of Biju Patnaik University of Technology (BPUT), Rourkela, Odisha. It follows the university's prescribed syllabus and the scheme of Academic Administration and studies. The Institute focuses on enhancing the employability of the students by offering them with the best of faculty, infrastructure and self-development activities. Feedback from stakeholders is considered as an important tool for continuous improvement. The college prepares an academic calendar following the BPUT calendar. The academic monitoring committee takes care of the time table and the class distribution per subject. The lesson plan with course objectives and course outcomes is prepared by the concerned subject teacher before the commencement of the semester and is duly approved by the head of the department and made available to the students. The course progress is reviewed both qualitatively and quantitatively by the head of the institution. The institution also plans some courses to bridge the gap between the academy and the industry requirement. The attendance of all the theory classes are updated and regularly monitored through e- governance of Trident Academy of Technology. The academic progress is also maintained by each faculty for each semester and verified by HODs on timely basis. The effective implementation of the

curriculum is assessed by conducting tests on a regular basis and through a well - defined feedback system. The college has a regular process of collecting feedback from the students on the curriculum which is analyzed, discussed in Academic Monitoring committee meetings and the necessary steps are taken for the improvement. The tutorial classes are conducted for the thorough understanding of the students which in turn contributes to their performance index. The faculty members use the following modes of delivery in their classroom: 1. Chalk and Talk method 2. Learning by doing 3. Power point presentation 4. Tutorial/Remedial classes 5. Assignments and Quiz tests 6. Group Tasks 7. Class tests 8. Models/Charts 9. Internet 10. e-Books, e-tutorial, Lecture notes and lecture CDs . The HODs distribute the syllabus among the faculty members of their departments. The faculty members are instructed by the HODs to complete the syllabus within stipulated time. Extra classes are arranged in case of failing to complete the syllabus in the given time. New Text Books & Reference books are ordered every year for the teachers and students. For implementation of curriculum, teachers adopt the TAT Teaching & Learning methodology which includes presentations, assignments, and seminars, quiz tests, surprise tests etc. for effective learning. The Board of Studies of the University prepares the curriculum of the subjects. The college receives regular updates of circulars through letters and emails from the university, regarding the changes or modifications in the curriculum. Timely meetings are conducted and instructions are given for submission of assignments and conduct unit tests and class tests as per plan and publish the result before semester examination. To facilitate faculty members regular FDPs are conducted in the subject areas and beyond the syllabus.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
AutoCAD	Nil	12/09/2016	30	EMPLOYABIL ITY	YES
CATIA	Nil	15/09/2016	60	EMPLOYABIL ITY	YES
JAVA	Nil	15/09/2016	30	EMPLOYABIL ITY	YES

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
No file uploaded.		

#### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CSE, ETC, EEE, EE, MECH, CIV IL, IT	16/08/2016
MBA	MBA	16/08/2016
MCA	MCA	16/08/2016

Mtech	CSE,ETC	16/08/2016
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1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	207	Nil

**1.3 – Curriculum Enrichment**

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
TOTAL STATION SURVEYING	06/12/2016	30
STAAD Pro v8i	12/09/2016	30
No file uploaded.		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	IT	15
BTech	EEE	75
BTech	EE	58
BTech	MECH	120
BTech	CIVIL	55
BTech	CSE	100
BTech	ETC	90
No file uploaded.		

**1.4 – Feedback System**

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

Feedback Obtained
<p>The Academic Monitoring Committee of the Institution looks after the overall academic activities under the guidance of the Dean, Academics. The committee analyses the university prescribed syllabus for different courses and identifies the curriculum gaps based on following feedback system: ? Feedback from the teachers supervising the course: The teachers supervise and review the course curriculum and wherever need be, compare the same with syllabus adopted by other institutions of repute and current industry requirements so as to achieve the course outcome. ? Feedback from the Industry Experts and Employers: The Training and Placement Cell (TPC) provides inputs based on the feedbacks collected from industry experts and employers. ? Feedback from the students: The students provide the feedbacks after completion of each course on their understanding, content delivery and significance of the course for their</p>

overall career development. Further, students also interact with their mentors on regular basis. The mentors forward the points raised by the students to the concerned faculty members. ? Feedback from the stakeholders: The feedback from the Parents, Alumni, and Stakeholders are taken through interaction, discussions and meetings. Alumni inputs are valuable assets for an educational institution's academic development. They help build link between industry and institutions. But since ours is an affiliated institution, their help in curriculum development not has been that useful. However, their inputs collected verbally and informally help the institution improve knowledge delivery to a great extent. ? The feedbacks from the stakeholders are analysed, discussed in Academic Monitoring Committee meetings and those found to be out of the purview of the institution are sent to the University by the Principal for further discussion. ? The Institution has tried to bring in changes and also introduced enrichment programmes to supplement the curriculum.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	CSE	180	Nill	186
BTech	IT	60	Nill	52
BTech	ETC	120	Nill	120
BTech	EEE	120	Nill	52
BTech	MECH	240	Nill	60
BTech	EE	120	Nill	24
BTech	CIVIL	60	Nill	44
MBA	MBA	60	Nill	14
MCA	MCA	60	Nill	29
Mtech	ETC	18	Nill	1

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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2016	1997	89	170	5	3

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
175	90	3	7	2	5



[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring is a powerful personal and career development tool that can enable the mentee to achieve or exceed their life goals and aspirations. Trident Academy of Technology follows the mentoring scheme wherein faculty members are allotted with the responsibilities to mentor the students for their overall academic and social progress and developments. As a part of this scheme, mentor-teachers frequently interact with the students by convening meetings at least once in a week to assess and find problem areas in students' everyday learning and development processes. The number of Faculty Mentors are 85. The number of students per mentor is 30:1 (First year) and 15:1 (Second year onward). The frequency of meetings is once in a week. As a part of the mentoring system, each class is divided into 2/4 groups of 30/15 students in every batch. Each group is then allotted to different faculty members as mentor. In the first year, one mentor is allotted 30 numbers of students and when students go to subsequent years, the ratio is decreased for better contact, i.e., one mentor for 15 students. The mentors convene periodic meetings with the students and discuss various issues like academic, research, teaching, and other related issues. They are advised to telephone their mentors for any college-related activities. The minutes of the meeting are discussed in the staff council meeting and necessary, appropriate steps and decisions are taken and implemented. Role of Mentors are: (1) The Mentor shall exercise an effective control and influence over the students under his/her charge. (2) The Mentor shall assist in academic and overall development of the student under his/her charge. (3) The Mentor shall enquire into their various problems and help them to solve either by himself or by bringing it to the notice of the Head of the institution or the parents of the students. (4) The Mentor shall maintain the quarterly mentoring record and shall submit to the Head of the institution on the last working day of every session. (5) The Mentor shall send quarterly progress reports to the Parents/Guardians of the student, wherever deemed necessary. Responsibilities of HOD: (1) Meet all mentors of his/her department at least once a month to review the proper implementation of the system. (2) Advise mentor (3) Initiate necessary administrative action. (4) Keep the principal informed. Responsibilities of Academic Committee: (1) It will discuss mentoring-related issues at least twice a semester and take steps. (2) To advise the students regarding choices of electives, projects, summer training, etc. (3) To counsel and motivate the students in all academic matters either directly or indirectly. (4) To guide the students in taking up extra-academic and professional activities for value addition. This practice has been proven very successful as it provides a good platform for the students to express their thoughts, needs, and grievances. Students are also becoming more interactive with the mentors and approach them without any hesitations to report any issue related to classes, facilities, and others. The discussion on such issues and students' feedback in faculty meetings has helped greatly to make few necessary changes in the functioning of the respective

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2086	175	1:12

### 2.4 – Teacher Profile and Quality

#### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
175	175	0	4	18

#### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2016	Dr. Manas Ranjan Senapati	Associate Professor	Award (NAGARBANDHU SAMMAN)

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### 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
<b>No Data Entered/Not Applicable !!!</b>				
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The college follows a regular internal evaluation system as prescribed by BPUT. The circulars and notices are displayed on the college notice board as well as posted on the college website regularly. To maintain a transparency in the evaluation procedure we prepare an evaluation sheet of 50 marks. These 50 marks are again subdivided under the heading of Internal assessments which carries 30 mark, Surprise test, assignment test, quiz and attendance of the students carry 5 marks each. The questions of the internal exams are set by the concerned subject faculty members following the structure of BPUT semester exams. The assignment test is conducted at the end of every module. Surprise test is conducted without the prior notice to the students. After the end of the syllabus a quiz test is conducted based on multiple choice questions and covering all the modules. The papers are evaluated and marks are awarded by the faculty members and the papers are shown to the students in the class. Their doubts are cleared and the techniques of scoring better marks are explained to them. A separate question paper is prepared for the absentees on the test date and they are asked to appear the respective test on a separate date. Seminars are the integral part of student evaluation. Students chose relevant topics from their course and present papers on it. Marks are awarded to the students based on their presentation skills, subject knowledge and communication skills. During their four years of engineering program every student has to undergo a project work. They are guided by their departmental faculty members in designing and analysing problems based on engineering issues. The teachers evaluate the students based on their active involvement in completing the project work. Practical examination is a mandatory part in the internal evaluation system. The exams are conducted in the respective labs adhering to the strict guidelines of the university. Students are given grades after successfully completing the experiments followed by viva voce test.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The college strictly follows the academic calendar prescribed by the affiliating university. Before the beginning of every new session the senior academic members and the administrative staff meet to discuss how to execute the university academic calendar ensuring that the curriculum is enriched through theory sessions, sessional activities and seminars adhering to the prescribed syllabus and subject weightage by the said university. The academic calendar helps the faculty members and the students to space out their teaching and learning process by the yardstick of regular assessment. The faculty members plan their respective course delivery research work referring to the total number of working days as prescribed by the affiliating university for the smooth conduction of the academic and co- curricular activities. Department heads closely supervise and monitor the completion of the syllabus as per the lesson plan prepared by faculty members. The students also come to know about the beginning of their semester, their internal exams dates and the semester exam date. The academic calendar is intimated to all the students and the stake holders of the college by displaying it on the college notice board as well as

publishing in the college website. The Principal takes the help of the Internal Academic Committee frequently to review the semester#39s progress and provides suitable suggestions towards the course completion in time. In case of revision of academic calendar by the university, the institute incorporates the necessary changes accordingly.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://tat.ac.in/wp-content/uploads/2023/05/C-2.6.1-2016-17.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View Uploaded File</a>					

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://tat.ac.in/wp-content/uploads/2023/05/C-2.7-2016-17.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	730	BRNS, Dept. of Atomic Energy (DAE), Govt. of India	1871600	1287050
Minor Projects	365	DST	800000	786182
<a href="#">View Uploaded File</a>				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
SEMINAR ON PATENT REGISTRATION	Electronics and Telecommunication Engineering Dept.	21/08/2016

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NadiParikshan Yantra	1.Sweet Swagatika 2.NayanikaPriyadarsh	Skilling odisha-2016 BPUT	16/10/2016	STUDENT

	in i			
Automatic Irrigation system in Kitchen garden	1. Debasis Panda 2. Ayush	Skilling odisha-2016 BPUT	16/10/2016	STUDENT
Home Automation Using IOT	1. Smruti Ranjan Dash 2. Shubhashree Ray	Skilling odisha-2016 BPUT	16/10/2016	STUDENT
Road Alert System for Visually Challenged Person	1. VIVEK KUMAR 2. ADARSH PRIYANSHU	DST	15/04/2016	STUDENT
A Vehicle Theft Alert	1. SUSHMITA SENGUPTA 2. SOURAVA KUMAR SAMAL 3. SUSHREE SUSMITA DAS	DST	15/04/2016	STUDENT
Automatic Braking System for Vehicles	1. Navishta Fazal 2. Bedabyas Mahapatra 3. Kajal Bisoyi 4. Debashish Pradhan	DST	15/04/2016	STUDENT
E-Classification of soil of Bhubaneswar Smart City and development of SBC Calculator	1. SOURAV ACHARYA 2. P MONK KUMAR 3. RUDRA NARAYAN DASH 4. SARTHAK PATRA	DST	15/04/2016	STUDENT
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NA	NA	NA	NA	NA	Nil
No file uploaded.					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
1	3	1

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
ALL DEPARTMENTS	0

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if
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			any)
International	Physics	1	2
National	English	3	Nil
National	Computer Science	2	6
International	Computer Science	1	5.4
International	MBA	2	Nil
No file uploaded.			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Chemistry	2
No file uploaded.	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						
<a href="#">View Uploaded File</a>						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
THEORETICAL STUDY OF THE ROLE OF CHARGE ORDERING IN ANTI-FERROMAGNETICALLY ORDERED MANGANITES	SASWATI PANDA	MATERIAL RESEARCH EXPRESS	2016	5	1	TRIDENT ACADEMY OF TECHNOLOGY
STUDY OF SIMPLE K-MEANS AND DBSCAN CLUSTERING ALGORITHM USING HYPOTHYROID DATASET	ABHAYA KUMAR SAMAL	IJS DR	2017	4	15	TRIDENT ACADEMY OF TECHNOLOGY
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
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Attended/Seminars/Workshops	0	12	0	7
Presented papers	1	6	0	0
Resource persons	0	1	0	0
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### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Food and cloth distribution	KARTAVYA and NSS	5	55
Plantation drive	Green Club	3	25
Blood donation camp	Youth red cross	24	60
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
GREENERY AND BEAUTIFICATION	NAGARBANDHU SAMMAN	BHUBANESWAR MUNICIPAL CORPORATION	115
<a href="#">View File</a>			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Aids awarness	Youth Red Cross	World AIDS Day	7	100
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### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research	Dr. Sakuntala Mohapatra	Indian Institute of Science, Bangalore	730
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the	Name of the	Duration From	Duration To	Participant
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	linkage	partnering institution/ industry /research lab with contact details			
PROJECT WORK	MAJOR PROJECT	TRIDENT ACADEMY OF TECHNOLOGY	04/07/2016	15/03/2017	542
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
INLAND ENGINEERS	19/08/2016	Over Head Electrification of Railway Lines	15
SPARC	06/02/2017	Internship facility/training	15
CTTC	10/03/2017	Faculty students training	65
No file uploaded.			

#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
12680000	12720118.51

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with Wi-Fi OR LAN	Newly Added
No file uploaded.	

##### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
TGILMS	Partially	1.0	2012

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

No Data Entered/Not Applicable !!!

[View File](#)

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mrs. Sujata Mohanty	Physics	Trident dspace	08/08/2016
Mrs. Sanjita Mohanty Mr. S. Rath	Chemistry	Trident dspace	12/08/2016
Dr. A.Baral	Mathematics	Trident dspace	17/08/2016
Mr. S.S.Mohapatra	English	Trident dspace	31/08/2016
Prof. P.K.Sahoo	Electrical Machine-I	Trident dspace	08/09/2016
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#### 4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwidt h (MBPS/ GBPS)	Others
Existin g	456	336	402	40	35	5	30	100	10
Added	47	12	0	0	35	0	0	0	0
Total	503	348	402	40	70	5	30	100	10

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Tridigispace	<a href="https://tat.ac.in/academics/learning-resources/tri-digi-space/">https://tat.ac.in/academics/learning-resources/tri-digi-space/</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
7293000	7301994.51	5387000	5418124

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)



**Campus Maintenance:** Cleanliness daily maintenance of the interior facilities (classrooms, laboratories, library, and staircase, Washrooms) is done by the outsourced housekeeping team under the active supervision of the Administrative Officer. **Maintenance of Laboratory:** The maintenance of the equipment of laboratories is taken care of by the maintenance departments. Each laboratory is assigned with one teaching faculty as an in-charge. The technicians of the laboratories periodically monitor the working condition of the equipment/instruments/machinery in the laboratories. At the end of every academic year, technicians' preventive maintenance of their laboratories and verify the stock of the equipment. In addition to this, some of the faculty members conduct the stock verification and ensure the lab equipments working condition based on that, the report is submitted to the institution head for further rectification. Based on that report, the maintenance team has taken care of the rest of the work. The laboratory halls are effectively utilized to conduct practical courses in odd and even semesters as per the curriculum with adequate equipment and facilities. **Maintenance of Classroom:** The concerned department monitors the maintenance of the classroom ICT facilities and electrical fittings. The department technicians regularly monitor the ICT facilities such as computers, internet points, WI-FI, and LCD projector in the classrooms. If the faults occurred are unable to rectify by them will be reported to the Electrical maintenance department. The electrical fittings such as lights, fans, switches, and plug points in the classrooms are regularly monitored by the department and inform to electrical maintenance cell if there is a problem for rectification. **Electrical Maintenance:** All the circuitry-related tasks are integrated and brought under one umbrella to innovate, improve, and maintain quality service to the Institutions academic and other day-to-day activities. Under this scenario, The Electrical Maintenance department has been established to look after the Electrical system, Air-conditioning system and purchase of equipment and other materials related to all the above works.

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	INSTITUTION SCHOLARSHIP	409	8180000
Financial Support from Other Sources			
a) National	POST MATRIC SCHOLARSHIP	639	10004500
b) International	NIL	0	0

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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
SOFT SKILL	09/05/2016	432	Twaran
REMEDIAL CLASSES	11/08/2016	137	TRIDENT ACADEMY OF TECHNOLOGY

YOGA	24/01/2017	109	BRAMHAKUMARI
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2016	GATE	155	438	3	3
2016	CAT	123	362	4	4
2016	GOVERNMENT SERVICE	85	311	1	1
2017	GATE	163	395	6	6
2017	CAT	130	311	3	3
2017	GOVERNMENT SERVICE	92	255	0	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2016	2	B.TECH	COMPUTER SCIENCE ENGINEERING	NIT	M.TECH
2016	6	B.TECH	ELECTRONICS & TELECOMMUNICATION ENGINEERING	NIT, IIT	M.TECH
2016	9	B.TECH	MECHANICAL	NIT, VSSUT	M.TECH

			ENGINEERING		
2016	3	B.TECH	CIVIL ENGINEERING	NIT	M.TECH
2017	5	B.TECH	MECHANICAL ENGINEERING	SRM	MBA
2017	4	B.TECH	CIVIL ENGINEERING	SRM	MBA
2017	3	B.TECH	ELECTRONICS & TELECOMMUNICATION ENGINEERING	NIT	PHD
2017	2	B.TECH	ELECTRONICS & TELECOMMUNICATION ENGINEERING	XIMB	MBA
2017	1	B.TECH	ELECTRICAL & ELECTRONICS ENGINEERING	SYMBIOSIS	MBA
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	3
CAT	4
GRE	1
Any Other	1
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
ANNUAL ATHLETIC MEET	INSTITUTIONAL	531
BADMINTON COMPETITION	INSTITUTIONAL	150
CARROM CHESS	INSTITUTIONAL	120
INTER BRANCH FOOTBALL	INSTITUTIONAL	90
INTER BRANCH VOLLEYBALL	INSTITUTIONAL	90
INTER BRANCH BASKET BALL	INSTITUTIONAL	60
INTER BRANCH CRICKET	INSTITUTIONAL	90
DANCE COMPETITION	INSTITUTIONAL	135
MUSIC COMPETITION	INSTITUTIONAL	85
LITERARY COMPETITION	INSTITUTIONAL	110
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### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2016	NONE	National	Nill	Nill	NONE	NONE
2016	NONE	Internat ional	Nill	Nill	NONE	NONE
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institute encourages active representation of students in academic and administrative bodies to ensure smooth conduct of various activities. Several bodies have been formed which are as follows. Student Committee. The Student Committee is the nominated body of a few smart, energetic and intelligent students from various branches of the institution. It stands pivotal in organizing a wide variety of activities in the campus. The committee acts as a connecting link between the top administration of the college and the students. Anti-ragging committee Anti ragging Committee has been constituted to ensure that ragging or harassment of new students by senior students of the institute is strictly prohibited. Students are nominated as members of the anti-ragging committee along with the members of staff as per the recommendations from AICTE, UGC, and BPUT. They articulate the awareness about anti- ragging during induction and Orientation Programs and ensure that the campus remains ragging free subsequently all the way. Class committee Class committees have been formed to sort out the grievances raised more specifically in academic sphere. It comprises of student members ranging from meritorious to average in terms of their performance in the class. The committee also involves the faculty members handling the courses. The smooth functioning of the academic sessions and the difficulties in learning of every course in all the semesters are received as feedback from the student members, and the suggestive measures are also invited from the student members. Apart from the curriculum, the difficulties in accessing the infrastructural facilities are discussed with the students. Hostel committees The institute has a provision of Hostel committees comprising student representatives from various branches and semesters. The committee/HR helps the hostel administration prepare the Menu, addresses the problems of the boarders. Library Committee The college library has an advisory committee in which, along with the faculty members, students are also a part of the committee. They also sensitize the students regarding the issuing of books, journals, and magazines. The representatives create awareness among the students how to inculcate the habit of reading text books in print although reading e-books and e-content has become the trend and fashion in contemporary period of time. Internal Complaint Committee: The committee, comprising students from various branches, plays an important role in bringing the challenges, difficulties and problems faced by the students to the notice of the college administration. Complaint boxes have been placed at selected and convenient locations within the premises of the institution where in, the students drop their complaints in writing. The complaints are taken and addressed the next day only.

### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

NIL

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Response: The very success of any institution depends on effective delegation of responsibilities and delivery of outcomes through participation of all stakeholders. The decentralization and participative management in our institution can be broadly visualized under two heads: 1. Decentralization and Participative management in General Administration 2. Decentralization and Participative management in Academic Administration Followings are few of the set activities, that comes under General Administration where participative and decentralized approach have been used to obtain effective outcomes. 1. Institution Annual Day Celebration 2. Department Promotional Committee 3. Annual Techfest Day Celebration 4. Implementation of various IQAC Initiatives 5. Activity Library Management Committee 6. Extension and Student Welfare Activities 7. Activities of Annual Magazine Committee 8. Research and Development Activities Similarly, followings are few set of activities that comes under Academic Administration, where we implement participative and decentralized approach in getting things done effectively. 1. Activities of Central Timetable Committee 2. Students Mentoring Activities 3. Activities of Tech Clubs-Both Institution and Department Level 4. Industrial Visit 5. Institution Innovation Cell Activities 6. Seminar and Workshop Organizing Activities 7. Activities of Laboratory Maintenance Committee A Case Study: Departmental Promotion Committee (DPC): This committee is responsible for recommending promotions for the faculty members and staff across various departments. The committee comprises of Chairman of the committee, Convener and other member staff. On a rotation basis senior faculty member of different departments are allotted the responsibility of Chairmanship of the committee. Similarly other members of the committee are nominated from the different department for a specific period of time (Minimum for a duration of 1 year). The role and responsibility of the DPC is to assess the eligibility criteria of faculty members and staff on a periodical basis and recommend their promotions in cadre and also suggest enhancements in financial incentives thereof. The committee strictly follows the guidelines prescribed by IQAC of the institution through its Promotional Policy document. To ensure a free and fair evaluation of faculty members and staff on several eligibility criteria, a homogeneous composition of senior faculty members including senior administrative staff, across different departments, gets nominated to the DPC. Second Case Study: Students' Mentoring Activities: Mentors are happening to be the philosopher, guide and friend of the students pursuing their higher education ambition in our institution. Each faculty member of the institution is assigned with a group of 15 to 20 students as their mentee. A faculty mentor provides his or her counselling sessions to the allotted mentees during a pre-specified timing slot. The counselling sessions involves providing guidance in various aspects, not necessarily confined to the technical career of the students only.

Followings are set of areas where a student mentee gets guidance from his or her faculty mentor. 1. Career related guidance 2. Guidance related to prevailing course curriculum 3. Psychological support (In case of any demand of the situation) 4. Support related to various National and International level competitions and challenges.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Research and Development	The Institute always emphasizes on promoting research and development activity through publication of articles by both faculty members and students in indexed national and international journals of repute, book chapters, filing patents, applying for research and consultancy project proposals for receiving grant from funding agencies. Students are continuously motivated for innovation promotion through their participation in ideation boot camps, startup promotion workshops, in-house technical clubs, hackathons and other competition events. The research cell of the institute on a regular basis invites eminent researchers from reputed institutes to induce a conducive research ecosystem prevail in the institute's academic framework.
Library, ICT and Physical Infrastructure / Instrumentation	The well versed collection of large number of books, journals, magazines and periodicals covering Management, Engineering and other allied disciplines available in the Central Library of the Institute serves as an excellent learning support for the staffs and students to satiate their crave for academic knowledge acquisition, support their research and training interest. The Wi-Fi enabled digital learning infrastructures in the form of e-library facility and high speed internet connectivity in the central library has become an indispensable academic resource. Most importantly, the collection of lab manuals, lecture notes and previous year question papers are of prime importance.
Human Resource Management	The General Office Administration of the Institute composed of DGM(Administration), Administrative

Officer, Asst. Administrative Officer along with a battery of support staffs is responsible for addressing the Institute's need for Human Resource Management. In this regards, the Office Administration takes care of recruitment, rewards and promotion and grievance redressal for both technical (teaching, non-teaching and maintenance) and non-technical (office and support) staffs. Continuous effort of the Institute's management for Professional Development through financially supported participation in FDPs, Workshops, Seminars is a constructive approach for manpower development of the institute.

**Admission of Students**

Admission into different academic programs of the Institute is governed by the regulations and guidelines as stated by BPUT and AICTE. The selection process for entry into B.Tech. degree programs is the JEE Main and Odisha JEE GATE and OJEE is for admitting candidates into M. Tech programs and valid score from CAT, MAT, XAT, PGAT and ATMA are for admission into the MBA stream through OJEE counselling. For admission in to MCA program, the eligibility criteria is valid OJEE score with minimum academic qualification of Bachelor's degree and Mathematics as a subject in class XII or in graduation.

**Teaching and Learning**

The Teaching and Learning methods adopted by Trident Academy of Technology as a part of imparting outcome based education involves general class room delivery methods using chalk and talk practice, all class rooms being equipped with ICT based teaching support Infrastructure to help faculty members to involve presentation and demonstration of working models. In addition, faculty members adopt variety of innovative teaching practices such as Experiential Learning, Quiz, Group Discussion, Case Studies, Guest Lectures by Industry Experts, Assignments (Micro and Mini Project) to make the learning experience more productive.

**Examination and Evaluation**

The Institute's examination system comprises of a framework operating from a full and independent Examination Cell under the full administrative control of Professor-in-Charge of Examination

with a number of supportive subordinate staffs: Examining Coordinators, Office Assistants and other ground level staffs collectively looking into a variety of examination related activities, such as collecting Question Packets and Answer Scripts from the University, conducting University Examination, Internal Assessment Tests, collection and dispatch of sealed answer scripts to the University, collection of student registration data, conducting lab tests, seminar, viva-voce, project and internship evaluation, making result analysis and maintaining progress statistics.

Curriculum Development

Being an affiliated college under Biju Patnaik University of Technology (BPUT), Odisha, Trident Academy of Technology (TAT) does not enjoy the freedom of developing its own curriculum for regular academic delivery. However, in line with the philosophy of imparting Outcome based Education, the IQAC always takes proactive step in designing appropriate beyond-curriculum syllabus to tune the academic delivery system being followed for different programs running in the institute so as to make the student industry ready, fortified with the conceptual clarity with respect to prevailing technology, current trend and upcoming developments.

Industry Interaction / Collaboration

Apart from veteran academicians from reputed institutions being in the Academic Advisory Committee of the Institute, also includes experts from reputed Industries those who form the pivoting elements to setup and steer Industry-Academia Interface with the institute for promoting collaborative knowledge exchange. In addition to this, TAT has signed MoU with Cisco to become the Cisco Academy Support Center (ASC) and also has signed MoU with National Skill Development Corporation (NSDC) to operate in a Win-Win mode i.e., the Industry partner under MoU will provide Internship support to our meritorious students, impart industry ready value added technical courses.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Trident Academy of Technology is accredited by both NAAC and NBA on the



basis of its culture of following quality practices and approved standards. This accreditation shows and encourages the institute to maintain the qualitative as well as quantitative services related to both academic and non-academic activities of the institute. The management of the Institute supports in providing all requisite inputs for improving the quality of overall teaching and learning process, support the training and placements activities, etc. to achieve the set benchmarks. The in-house developed TAT e-Governance suit at present supports in maintaining appropriate academic delivery records.

Administration

The responsibility of the general administration of the management of the Institute lies in imparting trusted quality services to all the stakeholders (students, teaching, non-teaching and other general staffs and employees) and functionalities (academic delivery through sound teaching and learning process other quality services, such as accounts, budgetary activity, establishment, stores and purchase, admission and recruitment, examination - both internal and external, security and discipline, grievance redressal, transport, infrastructure, ICT, hostel, etc.) at all levels. Different modules of the in-house developed academic information system - TAT e-Governance suit at present supports the general administration by automating a few key functionalities.

Finance and Accounts

In order to maintain transparency in all financial transactions and accounts matter, the in-house developed academic information system (AIS) - TAT e-Governance suit, accessible at <https://ais.tat.ac.in/ais/>, at present supports accounts department of the institute in administering collection of students fee, outstand dues for both regular academics, hostel accommodation and other facilities, such as transport services. But, at present, Institute takes the help of COTS packages to support maintenance of all other financial transactions and accounts activities. As a routine activity, the Institute management carries out the audit of the accounts record and

	transactions on an annual basis.
Student Admission and Support	<p>Immediate after a candidate's reporting in the Institute for taking admission through OJEE counseling, the in-house developed academic information system (AIS) - TAT e-Governance suit, accessible at <a href="https://ais.tat.ac.in/ais/">https://ais.tat.ac.in/ais/</a>, supports the student admission process and other functionalities, such as keeping and validating students admission records, issue Fee Structure, issue of fee and dues outstanding statement to support student in approval of academic loan and bank finance, maintaining student database, filling of admission, scholarship, BPUT registration forms, etc. The AIS also allows the student to log into the e-Governance suit and access own accounts and academic related information in detail.</p>
Examination	<p>TAT has a full functional independent examination cell headed by a Professor-in-charge. The in-house AIS helps the examination cell in accessing student's academic track records and background data, their subject choice and registration details, Internal examinations and laboratory mark entry status. The examination cell of the Institute is well-equipped with all ICT based requisite office automation infrastructures, such as scanners, printers, computers and internet facilities. TAT being an approved Local examination script evaluation center of the Biju Patnaik University of Technology, all the communications are carried out through the online process as per the stipulated guidelines of the university.</p>

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2016	Dr. Chandan Kumar Das	FDP on fibre optics and optoelectronics	CVRCE, Bhubaneswar	5000
2016	Sujata Mohanty	FDP on fibre optics and optoelectronics	CVRCE, Bhubaneswar	5000

2016	Mr. Deepak Kumar Mohapatra	Faculty Development Programmes (FDP) on Programming and Operation of CNC turning and milling, and Application of ANSYS software in static Structural Design	CIPET, Bhubaneswar	5000
2016	Mr. Dipti Ranjan Panda	Faculty Development Programmes (FDP) on Programming and Operation of CNC turning and milling, and Application of ANSYS software in static Structural Design	CIPET, Bhubaneswar	5000
2016	Mr. Sambit Mohanty	Faculty Development Programmes (FDP) on Programming and Operation of CNC turning and milling, and Application of ANSYS software in static Structural Design	CIPET, Bhubaneswar	5000
2016	Mrs Kalyani Pradhan	Faculty Development Programmes (FDP) on Programming and Operation of CNC turning and milling, and Application of ANSYS software in static Structural Design	CIPET, Bhubaneswar	5000
2016	Mrs. Nibedita Pati	Completing the course in IntelliSuite Process	SriDutt Technologies Pvt Ltd, Bhubaneswar	5000

Modelling,  
Design tools  
and  
Multiphysics  
Modules

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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2016	INNOVATIVE TEACHING PEDAGOGY	INTERPERSONAL SKILL AT WORKPLACE	01/11/2016	04/11/2016	95	60
2017	WORKSHOP ON MS OFFICE	WORKSHOP ON MS OFFICE	15/02/2017	15/02/2017	Nil	108

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
ORIENTATION PROGRAM	60	09/08/2016	11/08/2016	3
ROLE OF DATA SCIENCE IN IOT APPLICATION DOMAIN	50	03/03/2017	17/03/2017	14
NATIONAL SEMINAR ON TECHNOLOGICAL INTERVENTION IN URBAN MOBILITY AND IOT FOR SMART CITY	45	03/04/2017	17/04/2017	14
FDP ON FIBER OPTICS AND OPTO ELECTRONICS	2	18/07/2016	23/07/2016	7
FDP ON PROGRAMMING AND OPERATION ON CNC TURNING AND MILLING AND APPLICATION OF ANSYS SOFTWARE	4	20/12/2016	31/12/2016	12

IN STATIC STRUCTURAL DESIGN				
FDP ON INTELLISUITE PROCESS MODELLING, DESIGN TOOLS AND MULTI PHYSICS MODULES	1	20/12/2016	05/01/2017	15
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
4	4	5	5

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
KALYAN	KALYAN	STUDENT WELFARE SCHEME

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

TAT, Bhubaneswar believes in transparency in all the aspects of its financial matters. It conducts both internal and external financial audits in regular manner. It has a fulltime Treasurer and Accounts Department since inception to ensure maintenance of annual accounts and audits. Internal Audit: Internal Audit is being conducted at the end of each month by Internal Auditors with an objective to review the routine activities and evaluate the financial efficiency of the organization. External Audit: External Audit is also being done by a chartered Firm of the institute after completion of the financial year for the Institute and the same have been submitted after the end of every year. External audit is undertaken to evaluate and examine the financial statement of the organization. Keeping all the aspects in view, TAT conducts statutory audit covering all financial and accounting activities of the Institute.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NA	0	NA
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6.4.3 – Total corpus fund generated

0
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## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority

Academic	Yes	Nil	Yes	Nil
Administrative	Yes	Nil	Yes	Nil

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Opinion of parents are given maximum importance and bears top priority in the policy implementation 2-Constructive suggestions are considered and put before IQAC and other committee meetings. 3- Efforts are taken to get active support from parents from their experience and expertise.

6.5.3 – Development programmes for support staff (at least three)

1- Introduction of Laptop scheme for the members of staff 2-Proposal under active consideration for some provision of staff fund and group insurance schemes. 3- Incentivize visible contribution to the institute

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1- Required modification in teaching learning approach matching to the quality of students 2- Adopting quality parameters in conduct of lab classes 3- Emphasis on Research and Development.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2016	Discussion on quality research and publication	02/07/2016	02/07/2016	02/07/2016	25
2017	Proposal under active consideration for some provision staff fund and group insurance schemes	18/04/2017	18/04/2017	18/04/2017	28
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**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Workshop on	26/11/2016	26/11/2016	72	55

equal rights for Girls' and Boys'				
Session on Gender equity	15/04/2017	15/04/2017	61	33

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<p>This year our faculties have undergone the Master Trainer Course on Renewable Energy and started implementing the knowledge in Real Live Project by installing roof top solar power plant of 10 kwp on grid system which injects the power to grid. It is grid connected system that works on net-metering which import and export energy from and to the grid. There is a Sewage Treatment Plant where the waste water is used for gardening. The College is declared as tobacco-free and smoke-free campus. The College adopts a healthy waste material disposal System for both both dry and wet disposal ? The College has Solar Street lights inside the campus ? Energy conservation is adopted by providing good Rating Appliances ? Use of renewable energy is adopted in the college campus ? Green Environment and Regular tree planting are done in the college</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Provision for lift	Yes	2
Rest Rooms	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2016	1	1	05/08/2016	2	Health Checkup Camp	Health Checkup	82
2017	1	1	04/02/2017	1	Awareness Camp	Plastic waste pollution control	57
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Professional ethics hand book	02/01/2017	<ul style="list-style-type: none"> <li>It is provided to all stakeholders of the Institution which highlights the desirable and undesirable acts related to the profession.</li> <li>The code of</li> </ul>

professional ethics is applied to administrative authority, Administrative staff, Teachers and Students. • It deals with various vital components of professional ethics like Integrity, Accountability, Inclusiveness etc.

Human values hand book

02/01/2017

• It deals with basic inherent moral inclinations towards kindness, honesty, loyalty, love, peace, sympathy, truth etc. that enhance fundamental goodness of human beings and society at large. • It explains various practices regarding human values like Gender equality, Righteousness, Discipline, Non-Violence etc. • Different core values followed by the Institute are: Social Well-being and Development, Striving for excellence etc.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2016	15/08/2016	52
Alumni Meet	31/12/2016	31/12/2016	45
Republic Day	26/01/2017	26/01/2017	34
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. The campus of the institution has an eco-friendly environment which is located across 11 acres of land. 2. A number of dustbin has been placed at different locations within the campus to keep the inside environment clean . 3. The waste material comes out from food, toilets,hostel etc is always cleaned by the Bhubaneswar Municipal Corporation on regular basis. 4. The waste chemicals from different laboratory are properly handled and disposed separately . Also the waste from hostels, batteries and others are disposed off properly. 5. The e-waste disposal of the institution is done according to norms provided by State Pollution Control Board, Govt. of Odisha. The institute administration is responsible to find out the e-waste material from each department and take necessary action for their disposal.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice Proctorial System Objective of the practice • Close interaction with the students intending to assure them an alternative parental-



guidance in the campus so that their confidence is in full bloom and they find an easy outlet to unleash their talents. The Context • Often, the highly gifted students with rural back ground can't adjust with the urban environment which affects their academics. The urban students also sometimes feel the peer pressure and get into depression. The scheme aims at addressing deficiencies in attitudes, habits, and knowledge of the students. The Practice • A batch of 30 students is usually placed under the responsibility of a teacher, designated as their Proctor. The proctors meet their protegees once in a fortnight to acquaint themselves with their problem, grievance etc. both academic and non-academic and try to get it sorted out. Evidence of Success • Those students who lacked the sense of discipline, gradually became more organised. • Number of participants in extra-curricular activities improved by around 50. • Those students who were struggling with their academics, improved dramatically. Problems Encountered and Resources Required • Allocating sufficient time for one- to- one student - faculty interaction every fortnight sometimes becomes a constraint for the faculty members. • Holding regular orientation programme of mentorship for fresh resources is also a constraint. Title of the Practice: • E-Abhiyan: Information and Communication Technologies (ICT) - awareness at grass root level. Objective of the Practice • As a part of Institutional Social Responsibility (ISR), E-Abhiyan intends to spread awareness of use of ICT among the underprivileged in rural areas. The Context • With the modern-day functions turning digital, it has become necessary to make people aware of the use of ICT. Unlike the rich and literate, the poor and illiterate are unable to take advantage of it and are in direct disadvantage ironically because of prolific use of the same everywhere. The Practice • A Committee was constituted comprising of faculty members and students to delineate the program and oversee as well. The programme was designed to propagate the ease of use of ICT in daily life among the poor and illiterates and to try to make upper primary school students computer literate. Evidence of Success • The programme was highly appreciated by the communities and schools. • Success of the project earned the appreciation of CISCO, a highly reputed international IT Company which endorsed a grant for the expansion of the Project. Problems Encountered and Resource Required • Paradoxically, the problem faced was with the primary school teachers. They did not take much interest which reflected on the students. It was sorted out when the teachers were first trained by our faculty who taught them the rudiments of programming.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://tat.ac.in/best-practices/>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Trident Academy of Technology (TAT) with a core vision of evolving as a facilitator with undisputed leadership through sustained development of skilled human resources to achieve excellence in educational practices has always paid uncompromised attention in giving efforts to strengthen academic foundation and parallelly promoting research with equal priority. Technology innovation at Trident Academy of Technology under Dinabandhu Foundation is an integral component of the core vision and mission. The intellectual capital of the college is enriched by its unique "Advanced Research Group (ARG)", consisting of senior and experienced professors who are engaged in initiating and promoting multifaceted research programmes for the Trident Academy of Technology. Trident Academy of Technology has been supported by AICTE's Innovation Promotion Scheme (IPS) with financial support of Rs.5,00,000/-. During the first phase of the program, TAT has conducted an Innovation

Competition and Exhibition in the name of Eureka-2016, which invited innovative project ideas and innovative models from participating institutes. 188 students from 60 Nos. of Intermediate Science Schools and Colleges have participated. Winners were awarded cash prize and recognition plaques. The second phase of the program, named COSCO-2016, was an Innovative Computing Competition, in which more than 300 students from around 100 2 Science schools and colleges participated. Winners were awarded cash prize and recognition plaques. In the third phase, OSBIC (Odisha State Biotechnology Ignition Challenge) was conducted amongst Bio-Science Students of different colleges of the State. TAT as the Prime Mover of Startup Ecosystem in Odisha, organized 'Odisha Startup Summit-2017' in the month of January 2017 under active support and encouragement of MSME Dept., Govt. of Odisha. 120 Start-Ups of the State had participated in the 3 days workshop inaugurated by Principal Secretary, MSME Dept., and Govt. of Odisha. It is the first of its kind in the State where the Entrepreneurs shared their success, challenges and agony in front of Government decision makers and financiers. In the month of March 2017, another Startup Conclave was organized with participation of 21 Startups in the area of "Smart City" in collaboration with NEN of Wadhvani Foundation, inviting Engineering and Management Graduates from different Institutes of the State. A similar Start-Up workshop was conducted as "Trident Solar Conclave" which was a boost for the solar integrators of the state connecting them to institutional users, electricity utilities and Government decision makers. This was graced by the MSME Minister of Govt. of Odisha. TAT imparts IoT-WSN based Project Work as a part of the regular academic assignment, as well as beyond- curriculum course offering to the Students of B.Tech. programs. TAT has established a Cisco-IoT Prototyping Lab. Active participation by students in IoT-WSN based Product Design, Development and Prototyping (through Available In-house Facilities) of various real-life Home Automation Projects, Weather and Environmental Remote Data logger, etc. Two faculty members of CSE Deptt are Certified as Master Trainer in Google Android App design by Telecom Sector Skill Council (TSSC). India's first non-funded Training Partner to National Skill Development Corporation, under Ministry of Skill Development and Entrepreneurship, GoI.

Provide the weblink of the institution

<https://tat.ac.in/best-practices/isr/>

### **8.Future Plans of Actions for Next Academic Year**

1. Implementation of Online Feedback System. The feedback from the students is being taken offline for all the programs .We are planning to modify the techniques of recording the responses from the students on various parameters online. 2. Increase publication of faculties and students. Considering the importance of research and publication in contemporary times, the faculty members and the students will be encouraged to publish research articles in quality journals. We are going to conduct more sessions by experts for RD to guide the members of faculty and students as well for research . 3. Conducting International Conference in the coming academic year. organizing seminars for knowledge up gradation and conducting workshops and FDPs to give the faculty members and staff a better exposure. 4. Strengthening Alumni Participation. An alumni coordination committee to be formed with a faculty in charge of it.Old students to be contacted and informed about the initiative. 5. Enhancing outreach program for backward communities: Among the beyond teaching initiatives, the NSS wing and Kartavya Club of the institute plan to organize health camps and reach out the orphanages with clothes and dry food. 6. Implementation of e-governance in more area of governance: