



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**ARAVALI INSTITUTE OF TECHNICAL STUDIES**

**ARAVALI KNOWLEDGE CAMPUS, UMARDA, UDAIPUR, RAJASTHAN  
313003**

**[www.aravalieducation.org](http://www.aravalieducation.org)**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**February 2020**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

**Aravali Institute of Technical Studies**, established in 2008, is an ISO 9001: 2015 certified Engineering College that is committed to provide Best Teaching, Best Training, Best Placements and Infrastructure for Higher Technical education viz. B.Tech., M.Tech., MCA & Polytechnic Diploma (Engineering).

It is approved by AICTE, Govt. of India and Affiliated to Rajasthan Technical University, Kota and Board of Technical Education, Rajasthan, Jodhpur. The Institution has Excellent imposing buildings with spacious Class Rooms, Highly Qualified and Experienced Faculties, Laboratories with the State of the Art equipment and other Excellent Infrastructure Facility.

Since the inception of the institute, Aravali Institute of Technical Studies is different, our student have been different, so our faculty, our academic strengths and our outlook on teaching and learning. The unique difference being that Aravali has been managed by passionate academicians with the sole mission of making each and every student “Industry Ready”.

We impart futuristic technical education and instill high patterns of discipline through our dedicated staff who set global standards, making our students technologically superior and ethically strong, who in turn shall improve the quality of life of the human race.

Aravali Institute of Technical Studies got a prestigious award for outstanding work in “Field of Education” in Southern Rajasthan. The award was presented by Ministry of Human Resources Development, Govt. of India & Department of Higher Technical Education, and Government of Rajasthan on September, 2018,

The Institute is located amidst the Aravali hills in a pleasant environments ideally suited for Teaching and Learning Process. It is located at a distance of 11 km from Udaipur city and opposite to Umarda Railway Station, Udaipur. This is situated surrounding Lake of City, Udaipur, Rajasthan.

### **Vision**

Tomorrow will take care itself, if one does an excellent job today. To nurture and develop talent, blended with values and technology to strengthen the technical man power of the nation.

### **Mission**

1. Impart quality education along with industrial exposure
2. To provide industry interface for faculty and students to work on projects with end goal of real time knowledge.
3. Enhancing the quality of life through sustainable development.

4. To continuous development of infrastructure and enhance state-of-the-art equipment to provide our students a technology up-to-date and intellectually inspiring environment of learning, research, creativity, innovation and professional activity and provide ethical and moral values.

## **1.2 Strength, Weakness, Opportunity and Challenges(SWOC)**

### **Institutional Strength**

1. Dedicated, well-qualified and competent faculty with research intent.
2. Effective mentoring system providing constant guidance to the student and feedback to the parent
3. World class infrastructure.
4. AITS is proud to claim to be a safe, ragging free and beautiful green campus with ultra-modern facilities to learn and live.
5. Technology driven by online software and Lecture Tutorial with NPTEL supported teaching videos.
6. Collaboration with IIT Bombay for spoken tutorial to learn new technologies.
7. An Entrepreneurship Development Cell (EDC) intended to prepare the students adequately for their chosen objective in their life is operative.
8. Strong liaising with Industry for Industry Academic relationship.
9. Teaching Faculty's knowledge and skill help in training our students even beyond curriculum. College encourages faculty mentoring students for research.
10. Every Semester organized Motivational Guest Lecture by Industry expert/ Motivational speaker for students & faculties.
11. Experienced, dedicated and highly qualified faculty members.
12. Located in the Lake city and surrounded by Industrial hub
13. Good support for Extra and Co-curricular activities from Management Team
14. Excellent campus placements
15. Collaboration with SSME (Space Society of Mechanical Engineers), ISRO, Ahmedabad, Gujarat.
16. Many different types of training provide for all students. The training and development programs are designed to improve confidence levels, Presentation skills, communication skills and technical.
17. Effective mentoring system providing constant guidance to the student and feedback to the parent.

### **Institutional Weakness**

1. Lack of International Collaborations.
2. Limited placements in core industries
3. Number of patents.
4. Less consultancy work.
5. Funded Research Projects.

### **Institutional Opportunity**

1. Research and consultancy initiatives.
2. Revenue generation through resource sharing.
3. Considering to initiate ‘Start-ups’ within the Campus itself.
4. Participation of students in various clubs and Technical activities.
5. Interaction with Industries.
6. Potential placement opportunities .

### **Institutional Challenge**

1. Acquiring more number of Research projects
2. Placements in core industries.
3. Initiating consultancy services from the industries
4. High cost of delivering Education
5. Creating Entrepreneurs.
6. Retaining the top position among all Engineering Colleges in the country.
7. Improving the employability of the students in the current scenario of rapidly changing technology and industrial requirements as well as policies prevailing from time to time in MNCs.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

The Institution is affiliated to Rajasthan Technical University and the curriculum and syllabus prescribed by Rajasthan Technical University are strictly adhered to. The institute follows the curriculum designed and developed by the affiliating University.

1. Advance planning of academic activities
2. Formulation of objective driven teaching plan
3. Maintenance of course files by faculty
4. Remedial Classes for slow learners
5. Class-wise Mentor system
6. Periodic review of teaching-learning Report/Teacher's diary by the Director
7. Systematic examination Marks report with dispatch to parents
8. Monthly attendance letter
9. Guest lectures, seminars, industrial visits and training programs
10. Refresher Courses, workshops and FDPs for up gradation of faculty's skills
11. 10.02% new courses introduced
12. CBCS – Choice based credit system develop from session 2018-19
13. Department Academic Calendars are prepared which include curricular, co-curricular and extra-curricular activities
14. The Course planning is done by faculty members which include course content, identified curriculum

### Efforts relevant to gender-equality, environment, human values and professional ethics:

- Equal opportunities in terms of admissions, employment, training programs, sports activities etc.
- Curriculum includes courses on Professional Ethics, human rights and Environmental Science.
- Structured feedback received from students, teachers, etc on design and review of syllabus.

- The Institute has strategic plan for effective implementation of the curriculum.
- Various activities related to academic planning are carried out through Enterprise Resource Planning (ERP).

### **Teaching-learning and Evaluation**

This Institute takes initiatives to assess learning levels of the students through induction program, survey and performance in various examinations.

Admissions are based on the online counselling conducted by the Rajasthan Technical University, Kota. The teaching schedule and classes schedule follows by the University's Calendar of Events is meticulously planned. To ensure the quality of teaching, learning and evaluation processes both the knowledge as well.

We have centralized Examination committee to conduct mid-term test and semester end examinations. Fair practices and transparency are maintained in the examination and evaluation processes. Due to the efforts taken by the faculty members and students, most of the students complete their engineering program in the stipulated time with good percentage.

Institute, committed to provide quality education to students, has sufficient number of well qualified, competent, experienced teachers. Rational, transparent and unbiased recruitment procedure is implemented without discriminating between caste, religion, region and creed. Various facilities are extended to the teachers to meet national and international professional standards.

Overall performance and skills acquired are considered for measuring effectiveness of teaching learning process outcomes. The evaluations and stake holders' feedbacks are analyzed and reviewed for further planning and overcoming experienced barriers in learning. Courts, playgrounds for various games inclusive of Cricket, Football, Basketball, Volleyball etc. as well as a track-field for athletics have been established. Well-facilitated Gymnasium set up in the Campus. IT facilities including Wi-Fi are periodically updated.

### **Research, Innovations and Extension**

AITs recognizes the importance of promoting the creative and scientific moral among its students. In this regard, AITS has encouraged its faculty and students to establish linkages with industry and community. Also motivate to faculty and student for publication in journals and magazine. Research facilities are created through Grants obtained.

Good number of sanctioned and executed students' projects is an indication of the research culture exhibited in AITS. The college provides reward to the faculty for their research contribution. Research meeting is conducted once in a semester to discuss the all aspects of research activities to promote quality research.

### **Infrastructure and Learning Resources**

The state-of-the-art infrastructure augments learning which significant concern of the institution. Each academic/admin block has well ventilated, spacious classrooms, tutorial room's, laboratories & workshop catering to the complete RTU syllabus and beyond, staff rooms, rest rooms, etc. to meet all the curriculum, staff and student requirements. Courts, playgrounds for various games inclusive of Cricket, Football, Basketball, Volleyball etc. as well as a track-field for athletics have been established. Well-facilitated Gymnasium set up in the Campus. Full day Internet lab is available for NPTEL and online study material to students and faculty. The institute has implemented enterprise resource planning (ERP) in order to make the system student centric and enhance learning. This ERP is also connected between parents, student and faculty for student details and information.

Our library also has tie-up with Del-net software and an institutional repository of NPTEL Video Lectures, Previous year question papers, project reports, manuals, & Journals etc. catering to different needs of the students and staff.

### **Student Support and Progression**

The placement record achieved by our students is described. A brief description of the innumerable co-curricular and extracurricular activities, the corresponding events and the support provided by the College is presented.

The institute conducts soft-skill development, career counseling, and personal enhancement sessions for the students by inviting external experts. For the overall development of students the institute encourages student participation in co-curricular and extra-curricular activities by providing the required support.

Training and placement cell provides pre-placement guidance to the students for placement activities. The cell coordinates internship and placement activities.

Institute has Guardian Faculty Member and Mentoring system, and for every 9 students a faculty acts as a mentor, till the student completes his/her program. Faculty mentor looks after mentees for overall development, academics, personal counselling.

The teaching-learning process is enhanced by various activities such as Expert lectures, Seminar, Industrial Visits, Workshops and seminars to provide exposure to students to real life practical aspects.

Institute has effective system of informing students of various schemes of scholarships and free ships. Institute has various committees such as student grievance cell, anti-ragging cell to address student grievances.

Training and Placement Cell, Entrepreneurship Development Cell play vital role in conducting expert lectures, training sessions for students.

### **Governance, Leadership and Management**

AITs has visualized vision and missions. It exhibits affordability of education with features viz. quality academics, infrastructure, research laboratories, industry-academic relation, co-curricular and extra-curricular activities.

The Management of our college is assisted by the Director, Dean Academics, registrar and Heads of the Departments. The management actively takes parts in the working of institution and to oversee the day-to-day as well as working of the college.

Faculty and other staff get benefit of sponsorship for higher education and other facilities. They are encouraged to attend and organize workshops, National/ International conferences, skill development programs, seminars, projects, consultancies and to publish research papers in journals and magazine. Institute has well designed performance appraisal system for faculty and staff; reviews of the same are confirmed for fitness of promotion or not.

The Director and the HODs periodically meet to take decisions on academic matters. The HOD decides on the activities of the department and delegates responsibilities to the faculty. Staff and students permitted to give suggestions- an example of participative management.

Internal Quality Assurance Cell (IQAC) aims at continuous enhancement of quality in teaching-learning process. Decisions taken by IQAC are positively supported by Management. The Management looks after the faculty requirement, infrastructure and financial expenditure and provides the fund for different developmental activities taking place in the campus.

### **Institutional Values and Best Practices**

As a part of education, AITS always focus on technical advancement with safety facilities like CCTV, fire extinguisher etc. AITS adopted eco-friendly environment practices as waste management, paperless and plastic free campus. For better utilization of natural resources solar panel system are deployed. As part of social responsibility institute always focused on extension activities such as gender equity, environmental consciousness, sustainability, moral human values and ethics. AITS consistently celebrates national festivals time to time for student and faculty.

Institute engage technical, problem based activities for students to sharpen their technical competency and capabilities. More profoundly said entrepreneurship, innovation and knowledge are interrelated, due to which institute cultivate students toward entrepreneurship.

The college follows many best practices for students and staff. Some of the examples include - employability enhancement program and soft-skill development program for students at no cost, student mentoring; various schemes aiming at faculty development program and quality publications and for funded research, medical insurance for staff and students.



## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	ARAVALI INSTITUTE OF TECHNICAL STUDIES
Address	ARAVALI KNOWLEDGE CAMPUS, UMARDA, UDAIPUR, RAJASTHAN
City	Udaipur
State	Rajasthan
Pin	313003
Website	<a href="http://www.aravalieducation.org">www.aravalieducation.org</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Director	Hemant Dhabhai	0294-2650131	9001275999	0294-2650135	info@aravalieducation.org
IQAC / CIQA coordinator	Sachin Sharma	0294-2650132	9694087602	0294-2650134	accreditation@aravalieducation.org

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	29-06-2008

**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Rajasthan	Rajasthan Technical University	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC		
12B of UGC		

**Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)**

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	29-04-2019	12	Yearly Extension Approval

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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**Recognitions**

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	ARAVALI KNOWLEDGE CAMPUS, UMARDA, UDAIPUR, RAJASTHAN	Rural	10.12	16192

## **2.2 ACADEMIC INFORMATION**

NAAC

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BTech,Civil Engineering	48	H.S.C.	English	60	58
UG	BTech,Computer Engineering	48	H.S.C.	English	60	44
UG	BTech,Electrical Engineering	48	H.S.C.	English	60	42
UG	BTech,Electronics And Communication Engineering	48	H.S.C.	English	30	2
UG	BTech,Mechanical Engineering	48	H.S.C.	English	120	25
PG	Mtech,Digital Communications	24	B.TECH	English	24	3
PG	Mtech,Production Engineering	24	B.TECH	English	24	5
PG	Mtech,Software Engineering	24	B.TECH	English	24	6
PG	Mtech,Thermal Engineering	24	B.TECH	English	18	1
PG	Mtech,Power Electronics And Electric Drives	24	B.TECH	English	24	3
PG	MCA,Master Of Computer Application	36	GRADUATION	English	60	24

## Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	5				17				79			
Recruited	3	2	0	5	14	3	0	17	43	36	0	79
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				27
Recruited	21	6	0	27
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				7
Recruited	6	1	0	7
Yet to Recruit				0

#### Qualification Details of the Teaching Staff

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	3	2	0	0	0	0	0	0	0	5
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	14	3	0	40	32	0	89

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	3	4	0	7

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

<b>Details of Visting/Guest Faculties</b>					
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>
	2		1		3

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
PG	Male	72	2	0	0	74
	Female	31	0	0	0	31
	Others	0	0	0	0	0
UG	Male	282	205	0	0	487
	Female	41	18	0	0	59
	Others	0	0	0	0	0

**Provide the Following Details of Students admitted to the College During the last four Academic Years**

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
General	Male	246	241	258	326
	Female	54	42	56	38
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		300	283	314	364



# Extended Profile

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## 1 Program

### 1.1

**Number of courses offered by the Institution across all programs during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
666	531	479	432	432
File Description		Document		
Institutional data prescribed format		<a href="#">View Document</a>		

### 1.2

**Number of programs offered year-wise for last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
11	11	11	11	11

## 2 Students

### 2.1

**Number of students year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
665	746	802	884	877
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 2.2

**Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
21	21	21	11	21

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.3

### Number of outgoing / final year students year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
194	218	216	247	213

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 3 Teachers

### 3.1

#### Number of full time teachers year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
80	100	73	110	105

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.2

#### Number of sanctioned posts year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
80	100	73	110	105

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 4 Institution

### 4.1

#### Total number of classrooms and seminar halls

**Response: 27**

**4.2**

**Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
237.91	290.44	296.68	264.72	221.44

**4.3**

**Number of Computers**

**Response: 402**

NAAC

## 4. Quality Indicator Framework(QIF)

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### Criterion 1 - Curricular Aspects

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#### 1.1 Curricular Planning and Implementation

##### 1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

###### Response:

Aravali Institute of Technical Studies, Udaipur affiliated to Rajasthan Technical University, Kota, and approved by AICTE. It conducts five UG and five PG program in engineering. The institute follows the curriculum activity given by the university. The RTU provide the academic calendar. As per academic calendar of RTU, college prepares the academic calendar for student and faculty. The academic calendar provides date of commencement of the academic session, duration of semester, period of mid-term test, final semester examinations, sport activity and holiday etc. The department allocate subjects to teachers and prepare time table as per university academic calendar. The teachers prepare the teaching study materials and delivery content. The lecture plan is prepared by the individual department under the guidance of concerned faculty

###### Various Course Delivery Methods are:

**Lectures:** Lectures are used to convey critical information, background, theories, and equations of engineering practice with ethical issues. Lectures are also used to expose the students to contemporary issues and the need for life-long learning and by tutorials in the appropriate context.

**Class presentations:** Presentations are given to illustrate innovative ideas and concepts in graphical and animation form effectively communicate the working of actual engineering and technical solutions with their impact.

**Tutorials:** A tutorial is a method of transferring knowledge and may be used as a part of a process. The tutorials help the students for better understanding of the subjects and solved their doubts that could not be taken up during lectures and problem solving abilities.

**Lab experimental work:** Laboratory work demonstrates how theory can be verified by experiments through interpretation of results

**ELearning:** To identifying online resources for self-learning - NPTEL videos

Case Studies / Technical reports

Webinar

REDHAT

IIT Bombay spoken tutorial

Director conducts a common meeting with all teaching and non-teaching staff before commencement of each semester. Students are made aware of commencement of semester through common notice and SMS through ERP system and telephonic call by concern mentor.

The Director and Head of the department do a periodical review of the portions covered by the staff members and also the student's attendance and also review of student academic performance. Monitoring of course delivery and syllabus completion through formal and informal feedbacks.

Motivate to all students for doing research work and present papers in seminars and conferences and publish in journals. Guest lectures, seminars, Industrial visits and training programmes to supplement the curricular inputs.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

### 1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

#### Response:

To make it practice a committee consisting of Director and Controller of Examinations prepare the academic calendar in lieu with HODs well in advance before the commencement of the semester. The calendar outlines the semester class work schedule, internal examination schedule and external examination schedule.

Academic calendar is prepared by Director , Dean (Academics) in consultation with HoD(s) .

In the beginning of the academic session the students are apprised of academic calendar and same is uploaded on college website and displayed on notice boards and at strategic locations.

Only head of the institution can incorporate minor changes in academic calendar which he may deem fit considering the unforeseen circumstances.

The Schedule of All Examinations is given in academic calendar.

Assignments are submitted by students as per the Schedule.

Mid Term-I, Mid Term-II and sessional exam are mentioned in the academic calendar.

Display of marks is also as per the schedule.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

**Response:** D. Any 1 of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>

## 1.2 Academic Flexibility

**1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented**

**Response:** 100

**1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.**

Response: 11

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**1.2.2 Number of Add on /Certificate programs offered during the last five years**

**Response:** 41

**1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.**

2018-19	2017-18	2016-17	2015-16	2014-15
08	09	09	09	06

File Description	Document
List of Add on /Certificate programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

**Response:** 84.4

#### 1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
609	592	756	870	512

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

**Response:**

The current curriculum of the university has many more courses which address Environment and Sustainability development, Human Values and Professional Ethics related issues across the various programs offered (e.g. humanities and social sciences, environmental engineering, air pollution and control, disaster management, industrial management and entrepreneurship, soft skills, human rights etc.)

The Institute organizes activities related to Environment and Sustainability like Swachha Bharat Abhiyan, Unnat Bharat Abhiyan, Tree Plantation, Disaster Management Training. Blood Donation Camps are organized under human value activities. Guest lectures and seminar are also arranged based on human

rights and water harvesting management, health related issues and environmental issue. Professional ethics encompass the personal and corporate standards of behavior expected by professionals. Professionals and those working in acknowledged professions exercise specialist knowledge and skill. These amongst students by encouraging them to participate in the professional activities like seminars, conferences, workshops, tech fests. Institute organized four clubs like as Technical clubs, Literature club, Art of Living, Cultural Club and adventure club for student. “Robotics Lab” has been established to enhance technical and social awareness among students. The Institute has active Entrepreneurship Development Cell (EDC) which nurtures the spirit of entrepreneurship. These activities encompass components for employability, research and social needs amongst students.

**Environmental Science and Engineering**

- To the study of nature and the facts about environment.
- To finding and implementing scientific, technological, economic and political solutions to environmental problems.
- To study the interrelationship between living organism and environment.
- To appreciate the importance of environment by assessing its impact on the human world;
- To study the dynamic processes and understand the features of the earth’s interior and surface.
- To study the integrated themes and biodiversity, natural resources, pollution control and waste management.

**Professional Ethics and Human Values**

To enable the students to create an awareness on Engineering Ethics and Human Values, to instill Moral and Social Values and Loyalty and to appreciate the rights of others.

Professional Ethics.

- To understand the concepts of computer ethics in work environment.
- To understand the threats in computing environment
- To understand the intricacies of accessibility issues
- To ensure safe exits when designing the software projects

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>

**1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years**

**Response:** 0.81

**1.3.2.1 Number of courses that include experiential learning through project work/field**



### work/internship year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
04	04	04	04	04

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

**Response:** 77.14

#### 1.3.3.1 Number of students undertaking project work/field work / internships

Response: 513

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni**

**Response:** B. Any 3 of the above

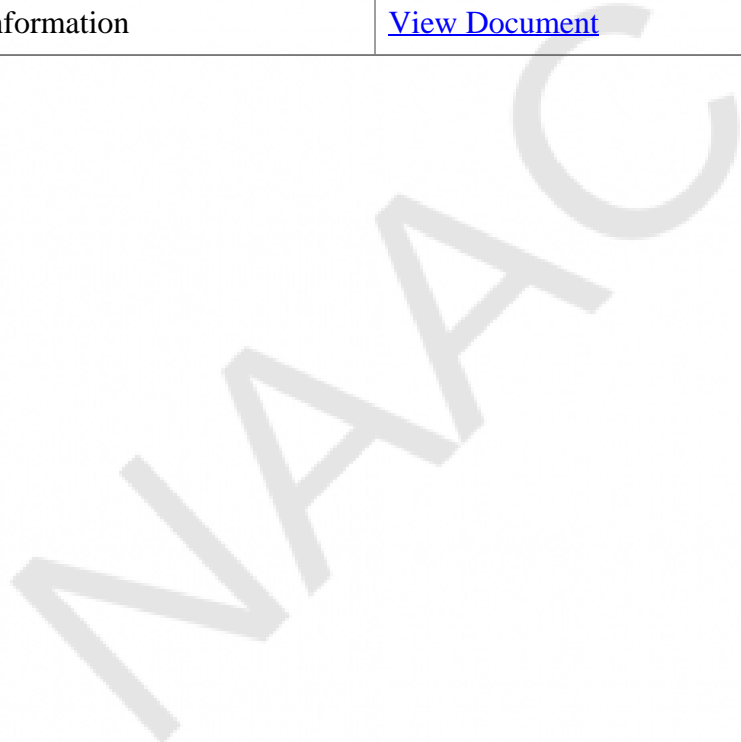
File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

- 1. Feedback collected, analysed and action taken and feedback available on website**
- 2. Feedback collected, analysed and action has been taken**
- 3. Feedback collected and analysed**
- 4. Feedback collected**
- 5. Feedback not collected**

**Response:** B. Feedback collected, analysed and action has been taken

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>



## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 57.46

##### 2.1.1.1 Number of students admitted year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
300	283	314	364	392

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
504	594	594	594	594

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 31.08

##### 2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
9	4	9	4	3

#### File Description

#### Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

The Institute organizes orientation program for the newcomer students at the commencement of new batch every year. This program help students and parents to get familiarized with the institution, curricular and co-curricular activities, facilities, rules and regulations etc. Every year students are given personality development programs that involve communication skills, personality development, time management and motivational sessions. Diploma to Degree students are given special classes to gain the knowledge about basics of Mechanical, Electrical & Plumbing. In order to motivate both the slow learners and advanced learners workshops are organized to enhance their skills. Guest Lectures and seminar are arranged for the students as to gain the knowledge about the experts to follow.

#### Activity for Advanced learners:

- High Talented students are identified on the basis of internal assessment, university examination, and regularity in classroom.
- Students are encouraged to be members of professional bodies like as Technical club, Art of Living club, Adventure club, and literary club and college annual events.
- Advising to participate in group discussions, debates, Technical quizzes to develop analytical and puzzle solving abilities in them and thereby, to improve their presentation skills and also communication skills.
- Motivating to students for minor projects to inculcate research orientation and practical awareness in the 2nd year apart from mini and major projects.
- Providing opportunities to develop their technical innovative by participating and organizing intercollegiate as well as district level for technical symposiums.
- Encouraging to all student with extra care to obtain University topper ranks.
- Semester Toppers and University rank holders are provided with certificates and reward by management.
- Encouragement to complete NPTEL/Advanced courses
- Application of research papers in projects.
- Participation in Seminars/Conferences/IIT events
- Paper publication and presentation
- Workshop/Seminar on current trends
- Model making/building
- Motivation and guidance for higher studies (competitive exams)
- Industrial visits and Industrial training

#### Activity for Slow learners:

- Remedial classes/ Extra lectures
- Improvement Test for student in every semester
- Counseling – special hints and techniques

- Faculty members do periodic interaction with parents
- Provide course notes for students those students who are in the verge of dropping out due to arrear subjects.
- Assignments and solving University question papers
- Question bank
- Guidance for Seminar/Project presentation
- Mock oral/practical examination
- Tutorials
- Extra classes are organized to clarify doubts, re-explaining of critical topics for improving performance.
- Appropriate counseling with additional teaching, eventually helps to attend classes regularly

File Description	Document
Past link for additional Information	<a href="#">View Document</a>

### 2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

**Response:** 8:1

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

### 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

**Response:**

The following are the various student centric methods to enhance Teaching and Learning.

#### Course Delivery Methods:

- Lectures
- Class presentations and Video presentations
- Tutorials & Extra classes
- Lab experimental work
- Written Assignments ( Per unit Two assignment)
- E-Learning: identifying online resources for self-learning
- NPTEL videos
- Case Studies / Technical reports/ **Magazine**
- Red-Hat
- Webinars
- Virtual lab

- IIT Bombay – Spoken Tutorial Project

The following latest teaching and learning methodologies are used to motivate students to learn for higher retention of knowledge through better understanding for increased depth and developing positive attitude towards subjects taught.

- The faculty adopt active learning for students in the learning process more directly through following activities; Brain storming, quiz, debate, group discussions, role play, games, model making, mini projects, presentations, essay, elocutions, case studies and simulations on technical content. Animated PPTs for some topics using social media. Open ended problems requiring critical/creative thinking for promising students.
- This is implemented by forming student teams working jointly to solve a problem, complete a task/project, participating in debates or design a product. Student learning is enhanced by adopting approaches / methods such as seminars, conferences and special lectures.
- Students are encouraged to search and make use of resources beyond the classroom for investigation of open questions/problems, developing their critical thinking and increasing understanding levels by performing review of research papers, surveys, etc.
- The faculty also focuses on cooperative learning methodologies. Students work together to maximize their own and each other’s learning in student chapters and also while performing various activities using think-pair-share, round table techniques, etc.
- In projects/competitions, participating students are assigned different tasks,assignments, portfolios, activities in which students engage in complex, challenging problems and collaboratively work toward their solutions by using inter-disciplinary knowledge e.g. Design of Resonance racing vehicles (SAE-India) Design and implementation of Software/Apps, Design and building Robots/ Drone, etc.
- Institute provides an environment for students to engage in intellectualdiscussions and work in team for problem-solving under the guidance of a peer leader to perform various activities.
- Field based experiential learning like Internship, service learning and classbased experiential learning like role plays, games, case studies, simulation, virtual lab, presentations are practiced.
- Study material and periodic assignments are also made available to the students. This enables students to come prepared for the classes. This practice has better interaction in the classrooms and laboratories.
- Invited talks by experts from the industry and academia, to cover contents beyond the syllabus and recent trends. MOUs are signed with leading industries for career development of student.
- Arranging industrial visits and field visits for special surveys.
- Wi-Fi facility is available on campus to allow students to access technical resources such as NPTEL Lectures, video clips, etc.

File Description	Document
Link for additional information	<a href="#">View Document</a>

### 2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

**Response:**

Teaching-Learning is a phenomenon where the teacher and the student are learning in surrounding of eco-friendly environment. Traditional teaching has been replaced with more innovative and creative ways of disseminating, sharing and facilitating knowledge development in students.

Faculty are attending various Faculty development programs for domain knowledge and for new trends in education technology/pedagogy which make their teaching more innovative. Faculty presentations in departments enhance peer learning of teachers. Following are the various tools and techniques used by faculty and institute to make teaching more innovative:

- ICT based teaching-learning (Model, etc)
- Digital social learning platforms (WhatsApp, blogs, etc)
- Technical social program
- Exposure of faculty to industry
- Industrial Training for faculty
- Industry academic relationship
- Interaction of faculty with company guide of student during full semester internship
- Sponsored projects
- Faculty industry visits
- Proactive teaching methods (group discussions, role play, games in class like mime, treasure hunt, mimicry, etc.)
- Audio & Video tools
- Animated presentation
- Role Play
- Puzzles and Games
- Entrepreneur Cell
- Motivational Talks (Forum for Science and Technology)
- Seminar/ Conferences
- Faculty Development Program
- Expert lectures

All above innovations and creativity in teaching learning process lead to improve not only the academic performance of the students and faculty but also their communication, human relations, technical and management skills which makes them industry ready.

File Description	Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View Document</a>

**2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )**

**Response:** 24.63

2.3.3.1 Number of mentors	
Response: 27	
<b>File Description</b>	<b>Document</b>
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years	
Response: 100	
<b>File Description</b>	<b>Document</b>
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)				
Response: 3.69				
2.4.2.1 Number of full time teachers with <i>Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.</i> year wise during the last five years				
2018-19	2017-18	2016-17	2015-16	2014-15
3	5	3	3	3
<b>File Description</b>	<b>Document</b>			
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<a href="#">View Document</a>			
Any additional information	<a href="#">View Document</a>			



### 2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

**Response:** 3.43

#### 2.4.3.1 Total experience of full-time teachers

Response: 274

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

**Response:**

Institute follows the rules and regulations for evaluation process are laid down by the affiliating University and are communicated to students through syllabus copies supplied in the beginning of first year of their academic program.

The schedules of internal assessments are communicated to students and faculty as per institute academic calendar in the beginning of the each semester.

The internal assessment evaluation process is communicated to students by the concern faculty and also during orientation programme for first year students. Syllabus for internal assessment will be communicated to students well in advance. Question papers are set based on Course outcomes and are approved by Hod. Scheme and Solution are prepared by the concern faculty on completion of the assessment.

Theory subjects are assessed through:

- Three internal tests :
- University External Exam
- Assignments
- Seminars

Practical subjects are assessed through:

- Two internal practical tests
- University external lab exam
- Mini projects

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The schedules of internal assessments are communicated to students and faculty as per institute academic calendar in the beginning of the each semester.

The internal assessment evaluation process is communicated to students by the concern faculty and also during orientation programme for first year students. Syllabus for internal assessment will be communicated to students well in advance. Question papers are set based on Course outcomes and are approved by Hod. Scheme and Solution are prepared by the concern faculty on completion of the assessment.

Theory subjects are assessed through:

- Three internal tests :
- University External Exam
- Assignments
- Seminars

Practical subjects are assessed through:

- Two internal practical tests
- University external lab exam
- Mini projects

### **2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient**

#### **Response:**

On the Orientation Day, the first year students are made aware of the evaluation processes and university rules & regulation. The university allots 80% marks for the end semester exams and 20% internal marks.

The class mentor carefully monitoring the regularity of attendance and the performance of the students in internal evaluation tests and external semester examinations.

At the college level, an examination committee, comprising of a senior teacher as convener and other teaching and non-teaching staff as members, is constituted to handle the issues regarding evaluation process. Three internal assessment tests are given during each semester, Time table for which is prepared well in advance and communicated to the students earlier.

The college follows strictly the guidelines and rules issued by the affiliating university while conducting internals and semester-end examinations. Seating plan and table marking is followed even for internal assessment tests and it is displayed on the notice board along with the internal assessment time table. Students and faculty members are made aware of the transparency to be maintained in the system of

assessment. Review on the question papers are made by faculties to find out the percentage of toughness in the question paper and the feedback is given to the department Head.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

**Response:**

### Program Outcomes

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering matrix problems.
- 2. Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design / development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
  - 1. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
  - 2. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
  - 3. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
  - 4. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
  - 5. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
  - 6. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
  - 7. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive

clear instructions.

8. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

9. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### SAMPLE PSO's of CSE

**PSO1: Programming:** Ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, DBMS, and networking for efficient design of computer-based systems of varying complexity.

**PSO2: Practical Solution:** Ability to practically provide solutions for real world problems with a broad range of programming language and open source platforms in various computing domains.

#### Description of Mechanism of Communication

1. Prominently displayed on department notice boards and laboratories
2. Lab manuals
3. Disseminated in Placement trainings
4. Disseminated during student seminars and orientation program
5. Department Handbook
6. Survey Forms
7. Academic Calendar

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View Document</a>

#### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

##### Response:

Students' progress and learning outcomes are monitored through continuous evaluations, tutorials and

laboratory exercises, and live projects/assignments under guidance of Director. The Institute conducts three tests in all courses and reviews the performance of students in the faculty meeting at departmental level and in the meeting of result committee under the Director. At the end of each semester, student feedback is taken; course wise performance of students is discussed, analyzed and recorded in terms of grades/Marks. Based on discussion, feedback of student and faculty, course contents are improved. Weak students are encouraged for special meetings and interaction with the faculty to identify their problems and means to solve them. Extra classes provided for weak student who's attend and improve their knowledge.

### **CO Assessment Processes**

Assessment tools are categorized into two methods to assess the course outcomes as:

- Direct assessment can be done with the academic performance, placement training, Achievements, Contributions.

#### **List of direct assessment tools:**

Three Internal assessment

Quiz

Project work for final year students

Seminar for final year students

RTU semester exam

COCAT-Course Outcome Attainment Test

Target levels of attainment of Course Outcomes (COs) are set; Course is delivered; actual attainment of COs is determined using internal assessment test 1, 2, 3 and RTU exams.

The performance of students in different assessments (IA, RTU exams) is evaluated for the attainment of POs.

Some of the Direct CO assessment tools used to measure the attainment levels are :

Test – I,

Test – II,

Assignments, Quiz,

end semester exams,

performance during experiments etc.

Course Exit survey is also conducted at the end of the semester. The different weights are assigned to each

of above tools.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>

### 2.6.3 Average pass percentage of Students during last five years

**Response:** 61.12

#### 2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
130	161	124	165	102

#### 2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
194	218	216	247	213

<b>File Description</b>	<b>Document</b>
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:** 3.36

<b>File Description</b>	<b>Document</b>
Upload database of all currently enrolled students (Data Template)	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 1.57

**3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
0.50	0.283	0	0.564	0.225

File Description	Document
List of endowments / projects with details of grants	<a href="#">View Document</a>
e-copies of the grant award letters for sponsored research projects / endowments	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)**

**Response:** 0

**3.1.2.1 Number of teachers recognized as research guides**

**3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years**

**Response:** 40

**3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
01	02	0	5	2

**3.1.3.2 Number of departments offering academic programmes**

2018-19	2017-18	2016-17	2015-16	2014-15
05	05	05	05	05

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

#### Response:

Our Institution is located in an eco-friendly campus and our management encourages staff and students to carry out research projects and publications that give practical solutions to problems which causes hazard to the environment. The institute continuously provides motivation, support and platform for students to show their skills& ability and also knowledge in various competitive technical events and cultural activity.

In addition to Incubation center, the institute takes additional efforts for transfer of advance knowledge through various technical activities such as SAE-India, Robotics workshop, 3D-design & MEP activity. The institute provides support in terms of financial, academic, infrastructural facilities, any resources required and time to time available to enable students and staffs for participating in the various technical activities.

The students in the institute are participating in various technical competitions at national levels. For preparation of the competition, special facilities like internet, library, and required infrastructure like as space, equipment and support facilities have been provided 24 x 7. The institute has done collaborations with other agencies/ institutions/research bodies (CADD Center, Red Hat) for sharing research facilities which facilitate the students for their preparation. Appreciation letters are given to the students and faculties for their achievements in Institute annual function in every year. Concession is also given to the students in the academic in the form of leaves for attending the events and also sponsorship to all faculties for attending higher education and attend conference and workshop. The professional counselling is also available in the institute to improve the moral level of the students. We provide many facility to our Incubates in eco-friendly environment. We provide in campus accommodation to our Incubates in the campus itself. We provide them with guest room with family (i.e. two persons).



### 3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 42

#### 3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
14	09	08	08	03

#### File Description

List of workshops/seminars during last 5 years

#### Document

[View Document](#)

### 3.3 Research Publications and Awards

#### 3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 0

##### 3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 10

##### 3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 00

#### File Description

List of PhD scholars and their details like name of the guide , title of thesis, year of award etc

#### Document

[View Document](#)

#### 3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 0.85

##### 3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
32	24	05	08	11

<b>File Description</b>	<b>Document</b>
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

**Response: 2.7**

#### 3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
35	58	41	65	54

<b>File Description</b>	<b>Document</b>
List books and chapters edited volumes/ books published	<a href="#">View Document</a>

## 3.4 Extension Activities

### 3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

**Response:**

The institute have helpful vision and mission, institute is very insightful to the impact of various more activities on its students, employees, as well as on the environment. We aim to pursue our goals as one, keeping agreement with planet and society. The institute facilitates the student in various social and technical activities. Institute has conducted various social and technical activities for sensitizing and motivating the students to social issues and their holistic development so far. Social activities includes **Blood Donation Camp, Swachha Bharat Abhiyan, Beti Bachao-Beti Padao, Green Campus, Tree Plantation, Traffic Rule Awareness Rally and Pledge, Road Safety Awareness Program, Voter Awareness Camp** through Art of Living club.

Technical activity improve their qualities such as time management, project management, costing, marketing skills, event management, communication skill etc. Similarly social activities enhance and create social awareness and responsibilities in the students.

Entrepreneur Development Cell (EDC) initiated various activities for the career development of students at different medium like self-employment, startup initiatives, and collaboration with research institutions. On the basis of qualitative and quantitative outcome based, ideas are shortlisted and suggested for incubation and development. EDC encourages on establishing different clubs constituted by the students thereby favoring the students by providing guidance on healthy innovation interactive sessions. Further these discussions are converted into innovative projects and other development activity in the research context. EDC organized a three day Entrepreneurship Awareness Camp.

### 3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

**Response: 3**

#### 3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
01	01	00	01	00

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years ( including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

**Response: 18**

#### 3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
07	04	04	01	02

File Description	Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

**Response:** 48.85

#### 3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1050	157	345	50	146

File Description	Document
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.5 Collaboration

### 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

**Response:** 29

#### 3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
10	11	01	04	03

<b>File Description</b>	<b>Document</b>
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	<a href="#">View Document</a>

**3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years**

**Response:** 45

**3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
11	11	9	7	7

<b>File Description</b>	<b>Document</b>
e-Copies of the MoUs with institution/ industry/corporate houses	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

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### 4.1 Physical Facilities

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**

**Response:**

The infrastructure of this institute has adequate facilities to meet the norms laid by the AICTE, RTU, Kota. The available facilities are enhanced by addressing the needs of students and faculties to support Research and Development activities in college campus. This institution has obligatory infrastructure required for effective teaching-learning process, co-curricular and extra-curricular activities.

The building is built with the Green Building concept and also the college is completely eco-friendly. Natural lighting and ample air are provided to the students making their academic atmosphere completely organic and enriching their learning experience.

The Classrooms are spacious, well built and heavily facilitated. Sixteen of the lecture rooms are equipped with technology like projectors, wireless microphones, sound systems, marker boards. Minimum electricity is consumed by classes as light and air is naturally available.

The Library is equipped with the mandatory books regarding to the syllabus as well as extra reference material. The students are permitted to borrow books as per the book bank scheme and as per syllabus required. Enterprise resource planning (ERP) is deployed for effective academic planning and monitoring. Library has compilation of books, journals, web based resources, audio/video materials, etc with latest software for efficient functioning with seating capacity .Online resources that provide access to e-journals, e-magazines and research papers are made available to the students to update with the latest findings and studies.

Students are also encouraged to watch NPTEL videos which is a project of MHRD initiated by seven IITs for enhancing the learning. Library hours are allotted to each class so that students have easy access to browse, read and borrow books. Wi-Fi and LAN facilities are provided and internet for the students for instant accessibility of knowledge is issued. This allows students to surf the internet for academic purposes such as researches, doubts, project work and more. The access however is monitored.

Keeping the curriculum in mind, the laboratory is equipped with resources for necessary procedures designed to dispense the practical knowledge of students for a hands on experience and all safety measures are taken. Lab assistants are present during all sessions to provide necessary support. The labs are maintained in clean and hygienic manner.

Each department is equipped with sufficient number of computers. This makes all communication between departments, within departments and between student and teacher digital allowing easy access. All departmental labs are installed with the prescribed software.

Several other facilities such as the seminar hall, conference hall, libraries and more are made available to the students to encourage them to participate in all events.

These facilities are provided with a vision to help students develop their academics and career through skill enhancement.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.**

##### **Response:**

The Aroma Education Society has always encouraged and supported the co-curricular and extracurricular activities in this institute. This institute have also carried forward the legacy of society by promoting the co-curricular and extracurricular activities at their level.

The institution utilizes a lot of its resources to provide an environment to its students where they are encouraged to indulge in sports and extra-curricular activities. This ensures a holistic development and an all-rounded personality.

Students are trained in sports under the guidance of qualified and specialized coaches. Every week, one hour is allotted for the sports in the time table thus enabling the students to pursue sports. The students utilize these hours constructively to develop their physical skills as well as explore their interests to find their passion.

The college have following Outdoor and Indoor sports and Cultural facilities:

**Outdoor Games:** Cricket, Football, Kho-kho, Volleyball and Kabbadi.

**Indoor Games:** Table tennis, Chess, Carrom, Badminton and Gymnasium.

**Cultural Activities:** Open Air Theatre, seminar hall with practice area.

Regular training is provided to those students who show extraordinary skills in different sports. These students are selected through selection trials. They are trained and encouraged to participate in various level of competition including intra college events, inter-university events, national events and international events.

The students who show excellent performance at University, State and National level competition are encouraged by college by giving them track suits and sports kits. The student achievement is also acknowledged by felicitating them at Society and Institute level functions. The institute provides all sports material to students.

##### **YOGA CLASS**

Yoga classes are conducted for the faculty and students by expert yoga trainers. Separate trainers are provided for ladies and gents. One male trainer and one female trainer are recruited from Namaste India foundation (Namaste India school of yoga). Every week 2 hours are scheduled for yoga classes.

## CULTURAL ACTIVITIES

The college believes in all-round development of its students. It constantly encourages them to take part in extra-curricular activities to spark their interests and cultivate leadership qualities as well as team spirit. Every year the college conducts cultural programs to make this happen.

Two open air theatres are allotted for conducting different types of cultural programs. 50-100 students actively participate in these events. Activities conducted include dance (solo and group), ramp walk, singing, pot breaking and tradition day etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

**Response:** 0

#### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View Document</a>

### 4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

**Response:** 28.92

#### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
3.17	46.81	311.65	22.19	30.39



File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

#### Response:

Integrated Library Management System is used to manage different functions of library. Institute Central Library is using commercial software as well as Open Source software for Automation of Library Services.

College Management ERP Solutions are a mandatory requirement for a proper and systematic working of the organization. Web based College Software solutions which can run on Cloud Model i.e. internet; are easy to implement and use. “IFW Campus ERP 2.0” is an integrated cloud-based platform for Colleges which comes with modules like;

1. College Front Office Management
2. Student Fee Management
3. Hostel Management
4. College Mess Management
5. College Transport Management
6. Student Attendance Management
7. Employee Attendance Management
8. College Time Table Management
9. College Library Management
10. College Syllabus & Lesson Plan Management
11. College Assignments Management
12. College Notes Management
13. E-Library Management
14. College Events Management

15. Mentorship Management
16. Payroll Management
17. Accounts Management
18. College and Online Exam Management
19. Feedback on Faculty Management
20. College Alumni Management
21. College TPO Training and Placement Office Management.

Name of ILMS Software	ERP 2.0
Nature of Automation	Fully Automated
Version	2.0
Year of Automation	2013

This software has modules like Acquisition, Cataloguing, Circulation, Serial Control. Acquisition modules & Cataloguing Module is utilized for generating accession register reports, adding Bulk student's record, updating item lending policy and its status. Circulation module has books issue, return, and reserve options. Various reports such as loan borrower, item inventory status, circulation status summary, item transactions and operator wise transactions can be generated in this module. Similarly, library barcodes are also generated through this module making cumbersome library work simpler, effective, and time is saving.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

#### 4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

**Response:** D. Any 1 of the above

File Description	Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	<a href="#">View Document</a>

#### 4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

**Response:** 3.72

##### 4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
1.09	2.35	1.85	7.74	5.57

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the last completed academic year

**Response:** 42.28

##### 4.2.4.1 Number of teachers and students using library per day over last one year

**Response:** 315

### 4.3 IT Infrastructure

#### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

**Response:**

College aims at providing the futuristic facilities to its students so that they can utilize these resources to reach greater heights. In this electronic communication era, the internet communication is very important in teaching learning process. To fulfill the norms of AICTE and University, the institute has strong IT infrastructure. To enable this, the institution frequently updates its IT facilities to provide its students with

the best of facilities.

The institute has massive network of 402 computers with 56 Mbps Internet connectivity and Wi-Fi facility to fulfill the academic and research need. Centralized firewall Cyber roam is used for network monitoring, management and Internet security. The institute has deployed the educational Enterprise Resource Planning (ERP) software also which manages the entire administration, campus operations, and academic management in an efficient way.

Faculty members have provided with the computer and Internet connection at their respective locations. All the Computer laboratories and facilities are connected with the Internet and are made available to the faculties and students for their academic needs in their respective departments. Central computing facility with Intel core i3 computers with 56 Mbps speed Internet connectivity is available for research & development . For uninterrupted computing, UPS is available in all computer laboratories.

LAN facility: 3-Layer Switching (Core, Distributed and Access) network is available for the entire campus. Core layer switches in the buildings have been connected with the Optical Fiber Ring Network. This core switching is further extended to Distributed Switching for departments.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **4.3.2 Student - Computer ratio (Data for the latest completed academic year)**

**Response:** 2:1

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

#### **4.3.3 Bandwidth of internet connection in the Institution**

**Response:** A. 750 MBPS

<b>File Description</b>	<b>Document</b>
Upload any additional Information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

## **4.4 Maintenance of Campus Infrastructure**

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

**Response:** 20.11

**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
62.72	61.20	56.46	52.66	31.38

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View Document</a>

**4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.**

**Response:**

There are college level committees that look after the various aspects of the utilization and maintenance of the physical, academic and support facilities. The institute adopts standard established systems and procedures for maintaining the physical, academic and support facilities that are mentioned in the maintenance policy document of the institute. The role and responsibilities of committees are given below:

1. Repair and Maintenance of laboratory equipments/instruments are initiated by the respective laboratory In-charge as and when required.
2. The institute has adequate number of computers with internet connections and required software's distributed in different locales like office, laboratories, library, departments etc.
3. The institute garden is maintained by the gardener appointed by the society.
4. The purchase committee handles the repair/maintenance/calibration request appropriately by placing order to the respective equipment experts. History cards of the equipments are maintained, which indicate the maintenance/repair/calibration of the respective equipments. As a precautionary measure laboratory in charge, along with laboratory assistant, ensures proper working of all equipment at the beginning of each semester.
5. A budget is annually allocated for maintenance of the physical facilities of the institute.
6. The library has a reading hall and separate computers for students to access e-journals, while the subscribed e-journals can also be accessed from any networked computer in the institute

7. The classrooms, laboratories, seminar halls, and library facilities are utilized regularly by the students for the learning process and timetables/logbooks indicate the regular utilization of the respective facilities.
8. Fumigation of the entire institute is done frequently by third party housekeeping agency.
9. The maintenance of water coolers, EPABX system, and Air conditioners in the institute is carried by external agencies through annual maintenance contract
10. Anti-virus software is purchased and is renewed annually for the smooth working of all the computers in the institute.
11. Emergency exits and fire fighting system are provided to counter situations like fire hazard and natural calamities
12. The maintenance and housekeeping of the classrooms, laboratories, library, and the institute as a whole are taken care by external agency and non-teaching staff. Security of the institute is assigned to external agency.
13. There are computer/software laboratories for each department and a central computer laboratory with proper networking for internet access.
14. All the computer related facilities including hardware, computer peripherals, UPS and generator are maintained by giving annual maintenance contract to third party.
15. The institute has large open grounds for cricket, football, volleyball and basketball and a gymnasium utilized by the students.
16. Minor maintenance of furniture items and metal fixtures is carried out by the workshop department and the minor electrical maintenance is looked after by the Electrical Maintenance coordinator and his team.
17. The sports facility of the institute is handled by a physical director and these facilities are made available to all the students of the institute.
18. General civil maintenance and upkeep of civil infrastructure is carried out by the institute level canteen and campus committee.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

**Response:** 14.24

##### 5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
68	68	98	163	186

#### File Description

#### Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

#### 5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

**Response:** 50.3

##### 5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
235	457	532	422	358

#### File Description

#### Document

Upload any additional information

[View Document](#)

Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)

[View Document](#)

**5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following**

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

**Response:** A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

**5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years**

**Response:** 78.52

**5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
653	702	702	642	352

File Description	Document
Number of students benefitted by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases**

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees



**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 60.19

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
117	145	135	169	92

<b>File Description</b>	<b>Document</b>
Details of student placement during the last five years (Data Template)	<a href="#">View Document</a>

### 5.2.2 Average percentage of students progressing to higher education during the last five years

**Response:** 37.11

#### 5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 72

<b>File Description</b>	<b>Document</b>
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education (Data Template)	<a href="#">View Document</a>

**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**Response:** 0.67

**5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
01	0	0	0	0

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
30	33	34	32	20

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response:** 14

**5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	6	3	5

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

**5.3.2 Institution facilitates students’ representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

**Response:**

This institute formed different Clubs for involvement of the students in academic, co-curricular & extracurricular activities. These clubs helps the students in learn planning, organization, analysis, estimation and execution along with trouble shooting, which help in their comprehensive development. These clubs get involved outside of the classroom to reinforce the learning that happens inside the classroom. These clubs get valuable experience in project work and team building. From the different discipline, we have Chairman, President, Vice President selected by the respective department for the smooth conduction.

These clubs are governed by a committee of faculty members headed by Director of the college. There are 5 clubs viz. Adventure Club, Technical Club, Art of Living Club, Literary Club, Entrepreneurship Development Cell (EDC), Abhiyanta Seva Club and Cultural Club and each club organize various Cultural function, Sports, Technical events.

Following is the narrative of functions and events conducted by various Committees:

1. Anti-Ragging: This committee ensures free ragging incidents in the Institute and also spreads awareness among students against any type of ragging activities and create healthy friendly environment.
2. Cultural: This committee co-ordinates various cultural activities and events throughout the year. “AROMA” is annual social gathering which showcases cultural talent of students. Our students participate in prestigious intercollegiate competitions such as Hackathon and Techfests every year and bag prizes.
3. Sport: This Adventure Club organizes Intra College Cricket, Volleyball and various other tournaments. It also organizes intercollege sports event. Our students actively participate in various sports.
4. Technical Activities: Every Department is having active Student’s committee associated with the Technical Club of the institute. This Club conduct various programs such as Expert lectures, Industrial visits to name a few. Institute organizes technical competitions every year consisting of various technical competitions Each department organizes events which motivate students to take part and enhance their technical ability.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)**

**Response:** 17.2

**5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
13	25	17	21	10

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	<a href="#">View Document</a>

## 5.4 Alumni Engagement

**5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services**

**Response:**

This institution is extremely proud of every member of its alumni. Most of them are successful in their careers as jobs, higher education and in the field of entrepreneurship. We successfully draw on their support through Annual Alumni meets. The Institute established Alumni association in the academic year 2014-15. The main objectives of association are:

To guide students of the Institute on various professional avenues available and support them through various activities such as expert advice, seminars, visit etc.

To help and assist other regional bodies for training programs in entrepreneurship development, with resources available with association.

To mentor the students of the Institute for higher education, development of character and being good citizens.

To organize debates on various social issues.

To encourage the Alumni to take abiding interest in the process and development of Institute.

Promote the Industry-Institute interaction to bridge the gap between industry requirements and education offered and enhance students' employability

To promote and foster mutually beneficial interaction between Alumni and the Institute.

To encourage the formation of regional chapters to increase participation of Alumni.

To arrange and support in placement activities for the students of Institute.

To encourage the students of the Institute and members of the Association for research & development work in various fields like engineering, computer Industrialization etc.

To encourage and guide the students of the Institute on self-employment to become entrepreneurs.

To help towards environmental conservation , anti-pollution activities against air, water and sound pollution, by slide show, street play, demos, handbills and all possible ways of social awareness

To encourage and support students of the Institute in sports, cultural and extra-curricular activities.

To promote computer and internet literacy among the society.

To provide medical support to existing and retired teaching and non-teaching staff..

To help victims and victim areas of natural calamity and disasters like earth quakes, flood, storms, malnutrition, fire and violence etc.

To help and guide students and ex-students of the Institute for anti-drug, anti-ragging, and any other anti-social activities.

To publish books, periodicals for public interest.

Sighting the above objectives of Alumni Association our alumni contributes in many ways for the development and betterment of our Institute. Our students and Institute are benefited in various fields such as student placement, training, expert lectures, career guidance sessions, Industrial visits and mentoring. The alumni of Institute is guiding and nurturing our students to become engineering professionals. It is our plan to develop everlasting relations with our alumni which in turn will give rise to mutual benefits.

<b>File Description</b>	<b>Document</b>
Paste link for additional information	<a href="#">View Document</a>

**5.4.2 Alumni contribution during the last five years (INR in lakhs)**

**Response:** E. <1 Lakhs

NAAC

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

##### Response:

##### VISION

Tomorrow will take care itself, if one does an excellent job today. To nurture and develop talent blended with values and technology to strengthen the technical manpower of the nation.

##### MISSION

1. Impart quality education along with industrial exposure
2. To provide an industry interface for faculty and students to work on projects with end goal of real time knowledge.
3. Enhancing the quality of life through sustainable development
4. To continuous development of infrastructure and enhance state-of-the-art equipment to provide our students a technology up-to-date and intellectually inspiring environment of learning, research, creativity, innovation and professional activity and provide ethical and moral values.

**Vision and Mission of the Institute** focuses on the needs of society by providing quality education. The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by HODs, Administrative Head, Section in-charges and coordinators of various cells/committees in decision making process of the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well developed process to ensure quality benchmarks of academic and administrative activities.

The expert in consultation with the management team proposed a draft of the vision and mission statements for the institution. The same was conveyed to all by justifying the inputs considered which were given by the stakeholders and explaining reasons why certain ideas were incorporated while others were not. Two weeks of time was given for all the stakeholders to give feedback and send suggestions on the draft of vision and mission. New comments and suggestions were considered to make changes. Frozen vision and mission statements were shared with the departments and the other stakeholders.

The Institute maintains the culture of retention of Faculty and hence has an edge of senior and dedicated Faculty for realizing its Vision. Institute follows recruitment policies and service conditions as per the rules and regulations of regulatory authorities. Fair representation of women faculty is also ensured at all levels of organization and congenial environment is fostered.

Based on the Vision and Mission of the Institution, Quality Policies are framed and driven by the needs of the corporate world, society and stakeholders. Institute has a perspective plan developed by Principal and

HOD's with suggestions of IQAC. Deployment of the quality policy is done by providing requisite academic infrastructure, learning environment and harmonious work culture. Student's surveys and feedback from all the stakeholders plays vital role in framing and revising policies.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

### 6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

#### Response:

The Institution has culture of decentralized governance system with well-defined inter-relationships. There are various committees involving faculty which are constituted to manage different institutional activities. Committees are formed for the various curricular, co-curricular and extra-curricular activities to be conducted during the academic year. The departments are encouraged to arrange various activities with the support of Management for the benefit of Students and Faculty; also the management has extended enough financial powers to Head of the Institute and Department Heads.

College is keen on the teachers' involvement and participation for improvement of effectiveness and efficiency of the institutional teaching learning process. The Institute has always been in favor of participative management. The decision suggested by teachers in the meetings in the forum of HOD, and department meetings are conveyed to the management through Director. The management ensures that the opinions and suggestions made by faculty and staff are included in decisions implemented for college development. This process probes to the institutional practices for decentralization and participative management.

**A case in point:** Annual budget: Proposal, Approval and Allocation.

They arrive on a conclusive summary after discussing the essential requirements to fulfill the needs of the department including the budget required for student development activities like guest lectures, seminars, workshops and conferences.

Along with this, lab-in charges are also asked to come up with a proposal of their requirements including purchase of new equipment, repairs and maintenances, service, training and up gradation.

All proposals from various persons in charge, faculty and students are discussed in department meetings, reviewed and forwarded to the reporting authority for further processing.

Institute has vision and mission which are futuristic in nature. They satisfy the needs of society by providing quality education through leading-edge technology.



File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

#### ERP Process

In our institute all major tasks related to teaching learning, academic/administration planning, implementation and analysis of variety of tasks are being carried out by ERP. Enterprise resource planning (ERP) is business process management software. It has allowed our organization to use the system of integrated applications to manage our academic activities online.

Institute started using ERP in its day to day academic and administrative activities from the year 2013-14. The chronological transformation of academic activities is achieved through strategic planning from offline to online which can be briefed as follows:

#### Offline to Online Transformation

Before the implementation of ERP system, the method of filling and maintaining the hard copy of Academic Performance Report (APR)/Teacher's Diary was in use in the institute since the early years. It contained all the basic activities in single booklet covering academic calendar, time table, syllabus, teaching plan, attendance along with academic monitoring for theory and laboratory performance of the students. It also contained the records for Project/Seminar progression, industrial visits, result analysis and faculty appraisal.

Major functions currently carried by ERP software are:

1. Teaching plans
2. Time tables (Academic/Class and Personal)
3. Attendance monitoring
4. Examination schedule
5. Class assignments record
6. Syllabus coverage monitoring
7. SMS to the parents and students

8. Faculty feedback by students
9. Fee Module
10. Faculty Profile
11. Students database
12. I-card generation
13. Roll call list generation
14. Subject allotment and accessibility authority (Faculty, GFM, Head)
15. Variety of reports pertaining to academic monitoring can be printed
16. Additional modules can be added, if needed (Material inventory, purchase modules will be added in the future)

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.**

**Response:**

Aravali Institute of Technical Studies has well established organizational structure to execute out smooth functioning of administrative and academic processes. Various bodies are formulated which constitutes the organization chart. The governing body is the highest decision making body constituting members of the management, Principal and nominated faculty members. Board members are under Chairman. Principal is the academic and administrative head of the institution. Administrative set up of the institution is as per the organization chart of the organization. Dean academics reports to Director. Heads of the department report to Dean Academics. Staff report to respective coordinators. Coordinators are under Heads of the department. There are directors, deans and leads under chairman for development activities.

Decisions like introduction of new course, closure of existing courses, construction of new blocks, enhancement of physical facilities and other initiatives for improvement of the institution are taken in the form of society resolutions in the governing body. Governing body is the ultimate authority for any decision in the institution.

Service rules have been formulated as per the guidelines of competent authorities like affiliating university and approval body (AICTE, RTU, BTER) and institutional values.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

**Response:**

The institution understands this and appreciates the efforts of its staff. The institute recognizes their hard work and acknowledges their needs and requirements. An institution is only as good as its staff. As a result the institution has a very strong welfare policy for its teaching and non-teaching staff.

Increments are given to the top performers on the basis of the appraisal system of the college. Performance of each member of the faculty as well as the non-teaching staff is evaluated by the institution. Performance appraisal starts with tracking of individual accomplishments in terms of self-rating for all parameters like attendance, results, paper presentations, publications, conferences, workshops, seminars attended, certifications and awards received. Further ratings are given by the HOD's followed by the Principal of our college.

TSL (Training and Study Leave) is approved for the faculty who go for doctoral programs or Career Advance Scheme. The institution encourages the faculty who are pursuing Ph.D., to avail one month extra summer vacation and a week break during examinations.

Provident fund is paid by the institution as per the statutory rules. Partial Medical Insurance extended by the institution. A Grievance Redressal Cell is formed and all faculty concerns are addressed. Summer vacation of 2 weeks is given to the entire faculty who have completed a minimum of six months service in the institution. Flexible work hours are permitted to the faculty with personal difficulties. Faculty can apply for flexible work hours, in the beginning of the academic year, once the need of flexibility and justification of compensating the gaps caused by the absence is determined.

The appraisal system motivates the staff to excel and put forth the best of their efforts. Staff retention is one among the strengths of the institution.

**6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**

**Response:** 19.51

**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
26	24	15	10	12

<b>File Description</b>	<b>Document</b>
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	<a href="#">View Document</a>

**6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

**Response:** 3

**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
3	4	3	3	2

File Description	Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	<a href="#">View Document</a>

**6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

**Response:** 81.42

**6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
67	82	60	85	86

File Description	Document
Details of teachers attending professional development programmes during the last five years	<a href="#">View Document</a>

**6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff**

**Response:**

**Performance Appraisal System for Faculty:**

Employees are the most fundamental parts of any organization. The institution respects and acknowledges the contribution of all its members. It also rewards them duly. PAR system inspires Faculty which boosts professional knowledge and growth. Therefore it is made mandatory for every Faculty and Staff to submit the performance appraisal every semester. The performance appraisal system evaluates on following parameters:

- I.** Teaching, learning and evaluation related performance (number of theory, practical and tutorial hours conducted against the load given)
- II.** Co-curricular, extension and professional development related activities (Extension/co-curricular, Professional Development related Activities and Contribution to Management of Institution)
- III.** Research, publications and academic contributions
- IV.** Official conduct (target based works, punctuality and obedience)

V. Other relevant information (consists of significant contribution, awards received and additional activities not included in the above points)

#### **Performance Appraisal System for Staff:**

Performance Appraisal System for Staff is monitored on the parameters observed viz. Performance factors that include industry and applications, capacity to get the work done by subordinates and relations with colleagues. The integrity and their character are also reviewed. The length of service under reviewing authority is noted. The system is transparent and the appraisal with comments of the Head of the Department is then analyzed by the Director. After the evaluation every concerned staff is either appreciated or directed for further improvements. The appraisal system is also for the attendants; the parameters for the assessment are physical ability, technical ability, obedience and punctuality.

Based on the reviews, the report is submitted to the Management.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

## **6.4 Financial Management and Resource Mobilization**

### **6.4.1 Institution conducts internal and external financial audits regularly**

#### **Response:**

There are well defined processes for sanction of budget to expenditure. Our society has maintained a very transparent financial system in the institutions.

An internal approval system for all expenses is in place. Accordingly bill/voucher is recommended by the Head of the Department and approved by the Principal and Honorary Secretary of Aroma Education society. All the bills/vouchers are audited by an Internal Auditor on a routine basis. Proper record of all the expenses is maintained by the accounts department. During the course of Internal Audit, all required steps are taken to regularize the accounts and to obtain confirmations for the credit balances, to collect documentary evidences wherever inadequate in respect of payments, compliances of T.D.S. and Statutory Formalities and Reconciliation of Unit wise balances with the Control Accounts and Bank Reconciliations. The copy of the internal audit report covering all matters related to maintenance of accounts is preserved.

No major objections are found in the audit by the statutory auditors and minor audit suggestions are compiled as per procedure.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

**Response:** 19.59

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	2.06	0	17.53

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

**Response:**

The college has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purpose which help ultimately in realizing the institute's vision and mission.

Institute has made the necessary provision in the books of account towards efficient use of available fund for each academic year. As per the guidelines of the management and Director, Variance report of sanctioned budget and actual expenditure are regularly maintained.

Every year, the budget is prepared well in advance after taking into consideration the requirement of every Department. Each Department prepares the budget based on the requirement such as equipment, computer as well as consumable required for next academic session. The Institute has a well defined procedure to monitor effective and efficient utilization of available financial resources for infrastructure development and academic processes. Principal puts up the budget in Governing Body meeting and after discussion and necessary corrections/modifications; Governing Body recommends the budget for approval.

The budget is reviewed by the management and approved after necessary changes. As and when required, the institute makes a provision for advance additional fund. The Principal and the Head of Departments discuss the requirement and decide the priorities while allotting financial resources for various purposes;

and also ensure optimum use of available financial resources. The Governing body studies the annual expenditure, scrutinizes the budget and provides feedback for efficient use of financial resources. The Institute has standardized procedure for sanctioning of funds for various activities and also for settlement of advance and passing of bills for payment.

The Society has constituted a separate purchase Committee comprising of Management representative, Principal & college concerned staff. The purchase procedure such as calling quotation, technical bid, preparing comparative statement, negotiation meetings are followed for effective and efficient use of available financial resources. The committee ensures that suitable equipment with right specification is procured at competitive and optimal prices.

Financial audits are conducted by a chartered accountant every financial year to verify the compliance with established processes. The Management has given complete support to Director for organization of various co-curricular & extra-curricular activities like technical events, sponsoring of faculty & staff for various skill development programs, providing financial support for attending conferences, workshops, pursuance of higher education etc. Financial support is also provided for participation of students at various national and international level events like Baja, Supra and different clubs like Robotics and Drone.

## **6.5 Internal Quality Assurance System**

### **6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes**

#### **Response:**

It is responsible for directing, developing, providing and implementing guidelines to review curricular, instructional, teaching and learning materials. Latest teaching aids, techniques, activities, assessment tools and methodologies are used to enhance overall functioning to achieve goals of the Institute. Continuous development is attempted through IQAC at periodic intervals.

Two examples of institutional reviews and implementation of teaching learning reforms are outlined below:

#### **1. Academic Monitoring System**

Institute has system of monitoring of academic activities periodically. Number of lectures conducted by faculty members is monitored monthly and at the end of semester. Number of defaulter students is fortnightly monitored and makeup lectures are conducted for defaulter students. This resulted in substantial reduction in the number of defaulter students which can be demonstrated from the graph attached. Review of University examination results, internal examinations and student's feedback for teaching are also taken regularly. Some sample sheets are attached.

#### **Teacher's Diary:**



Teacher's Diary of every course are used to bring objectivity and strategize the course of teaching and learning for every topic. The teachers go through the syllabus and ensure that all the registered students fulfill the pre-requisites of the course. They check if the students have a fair knowledge of the basics, so that they are able to understand the teaching. This is done by planning surveys and announcements.

Upon cross-checking pre-requisites the teachers start their event schedule that they plan in the beginning of the year. A proper plan for each topic and its delivery is made by the teacher. The college's automation system allows the teacher to input the exact date and the topic taught for future reference as well. At the end of every topic, the teacher conducts a pre-planned revision. Mapping of the course outcome is done along with the program outcome.

Teacher's Diary have proven to be great guiding tools that provide the teacher direction and a sense of clarity while teaching. It is a 30-40 pages document including a few basic details of the teacher, course and department followed by the day wise schedule, pedagogies, revision questions, faculty profile and expectations of the students.

## 2. Video Classes and NPTEL online courses

Other than smart class rooms lectures, videos are played for specific topics beyond the syllabus but related to the latest technology in the respective domains. Through these video classes students are exposed to have a thorough understanding of the processes through visual means with maximum impact and this encourages them to focus on their project work too.

The students show much interest in the videos played in the video theatre and the response by the students to the question session post video session is very interactive.

A regular schedule for proper utilization of the video theatre indicating the date, time, branch and year of study is prepared at the beginning of the semester, so that all the students are benefited through video sessions.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

### Response:

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instructional, teaching and learning materials. Latest teaching aids, techniques, activities, assessment tools and methodologies are used to enhance overall functioning to achieve goals of the Institute.

Continuous development is attempted through IQAC at periodic intervals.

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A regular schedule for proper utilization of the video theatre indicating the date, time, branch and year of study is prepared at the beginning of the semester, so that all the students are benefited through video sessions.

**6.5.3 Quality assurance initiatives of the institution include:**

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**Response:** C. 2 of the above

<b>File Description</b>	<b>Document</b>
Upload details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

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### 7.1 Institutional Values and Social Responsibilities

**7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.**

**Response:**

**Safety and Security :** - Precautions have been taken during transport, in the campus, canteen, and library, sports area to monitor the movement of students and ensure safety of the students.

Following steps are taken to ensure safety of the students:

1. The institute campus has a strict Security checks at entrance for all persons with CCTV Cameras.
2. Institute has installed CCTV Cameras at different locations such as Institute Entrance, Library, Workshop, Student Section, Hostel, and Director's Office, Parking, all corridors and Computer Centre.
3. Students and staff wear Identity card at all times.
4. All corridors and laboratories are equipped with fire extinguishers.
5. Security guards are available for twenty four hours in campus. Nearby police station contact numbers and toll free help line numbers are displayed on notice boards at strategic locations including Girls common room.
6. Pick up and drop facility is available for girl students at the time of late night events such as Annual Function, Tech Fests, etc. held in the institute.

**Counseling :** -The major objective of the counselling center is to facilitate Academic, Emotional, Social and cognitive development of the students hence to empower them in their learning and personal development. The institute has established Students Counseling Cell for the overall development of the students through interaction. Mentor (faculty) take care of their classes. Students are allocated to specific mentor for entire semester. Specific issues related to mentee, identified by respective mentors during departmental counseling are forwarded to professional counselors. Professional gents and ladies counsellors are appointed at the institute level for addressing issues of staff and students.

**Common Room :** - Dedicated Common Room for female students with resting facilities have been created. Specific Sanitary Pad Disposal Box is installed in the girl's common room. Specific cleaning schedule is given to the housekeeping people and followed meticulously.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>

### 7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

**Response:** C. 2 of the above

File Description	Document
Any other relevant information	<a href="#">View Document</a>

### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

**Response:**

#### Waste Management steps in AITS campus

AITS practice the waste management including solid waste management, liquid waste management and E-waste management through proper dumping and recycling.

#### Solid waste management:

The institution takes various measures to ensure collection and proper dumping (outside of campus area) of solid waste like plastic, garbage, roots, leaves, etc. from the source of the generation which is harmful for environment.

The waste bins are placed separately at every corner of the corridor, wash rooms and common room. The dry waste bins are also placed in laboratories, library, classrooms, etc. The dry and wet waste is handed

over to municipal waste collection agency for further treatment.

**Liquid waste management:**

Liquid Waste from campus is conveyed through the underground pipe lines to the Underground tank and further the pipeline is connected with man pipe line of waste management..

**E-waste management:**

Due to advancement in technology, various types of electronic gadgets are being manufactured and marketed. These products become outdated after few months or years. Since these products contain some kind of hazardous materials like lithium, lead, zinc, etc. improper disposal of these products is harmful for living beings. Therefore, management of E-waste is an important issue. We follow following practices:

1. All Electronic waste CPU's, Hard disks, Laboratory Equipment scrap is sent to the market for sale.
2. Obsolete yet workable computers, printers and other equipment discarded by departments are donated to various foundation.
3. The cartridges of printers are refilled outside the college campus.
4. UPS Batteries are recharged and repaired by the suppliers.

<b>File Description</b>	<b>Document</b>
Any other relevant information	<a href="#">View Document</a>

**7.1.4 Water conservation facilities available in the Institution:**

- 1. Rain water harvesting**
- 2. Borewell /Open well recharge**
- 3. Construction of tanks and bunds**
- 4. Waste water recycling**
- 5. Maintenance of water bodies and distribution system in the campus**

**Response:** A. Any 4 or all of the above

<b>File Description</b>	<b>Document</b>
Any other relevant information	<a href="#">View Document</a>

**7.1.5 Green campus initiatives include:**

- 1. Restricted entry of automobiles**
- 2. Use of Bicycles/ Battery powered vehicles**
- 3. Pedestrian Friendly pathways**

- 4. Ban on use of Plastic**
- 5. landscaping with trees and plants**

**Response:** Any 4 or All of the above

<b>File Description</b>	<b>Document</b>
Any other relevant documents	<a href="#">View Document</a>

**7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:**

- 1. Green audit**
- 2. Energy audit**
- 3. Environment audit**
- 4. Clean and green campus recognitions / awards**
- 5. Beyond the campus environmental promotion activities**

**Response:** A. Any 4 or all of the above

<b>File Description</b>	<b>Document</b>
Any other relevant information	<a href="#">View Document</a>

**7.1.7 The Institution has disabled-friendly, barrier free environment**

- 1. Built environment with ramps/lifts for easy access to classrooms.**
- 2. Disabled-friendly washrooms**
- 3. Signage including tactile path, lights, display boards and signposts**
- 4. Assistive technology and facilities for persons with disabilities ( Divyangjan) accessible website, screen-reading software, mechanized equipment**
- 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

**Response:** E. None of the above

**7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).**

**Response:**

**Inclusive environment towards cultural, regional, linguistic, communal socioeconomic and other diversities**

The Institute has many diversities in every aspect, it deals with many co-curricular activities related to faculty and students and also related with social and communal diversities.

Many programs are organized on specific days such as republic day celebration, awareness programs and seminars and other activities related to socio economic such as “Swachh Bharat Abhiyan ” and helmet awareness program etc.

Convocation of University and Run for Wild Life programs are also executed for maintaining different type of activities.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

**Response:**

**Sensitization of Students and employees of the Institution to the constitutional obligations:**

**Values, rights, duties and responsibilities of citizen**

**Extension Activities:**

The institution promotes college-neighborhood network community development by conducting regular Activities related to social responsibilities of the institute.

AITs Units comprising of more than all students are active in community development activities.

The following activities are doing for community development.

**Tree Plantation**

- World Water Day Celebration
- International women’s day celebration
- Rural Area Development
- Swachh bharat
- International yoga day
- Women’s empowerment and health awareness
- Created awareness about Energy saving and power factor correction
- Leadership Skills and Soft Skills Training
- National Voters Day
- Blood Donation camp



- Medical Camp
- Stress Management
- Dental check Camp

The institute is aware of its role in campus cum community connections, well being of its neighborhood as well as build student's interest for service orientation and good citizenship. To track student involvement in various social activities, our institute has established a system of faculty.

Members as mentors for each students to keep records of their participation in such activities and Counseling the students in various activities. Further, at the end of the semester, such data is compiled at HODs level and in consultation with Director they are awarded as best students by the Chairman in Annual Day Celebration. Any education is incomplete without social awareness. The students are motivated to take part in various events organized by these professional bodies.

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** C. 2 of the above

File Description	Document
Any other relevant information	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

**Institute celebrates/ Organizes national and international commemoratives days, events and festivals**

Institution organizes various National Festivals and birth anniversaries of the great Indian personalities every year. Few of them are mentioned below:

**Republic Day 26 January (Every year)**

Independence Day and Republic Day are celebrated every year without compromise. Staff and students from Diploma, Engineering gathers at one campus along with the Office Bearers. The program starts with Flag Hosting at the hands of Chief Guest usually a personality from Social-Political Background followed by National Anthem. Patriotic songs, and various acts and skills are presented to the gathering by the students.

## 15th September- Engineer's Day

Birthday of Dr. Mokshagundam Visheshwaraih is celebrated as Engineers' Day. All the departments organize technical competitions on the occasion. Distinguished guest is invited to address the students and faculty to inspire the community to excel as engineers following the path of the great personality. Speakers bring out invaluable knowledge in the field of emerging technologies and advancements.

## National Science Day

National Science Day is celebrated in the memory of Dr. C.V. Raman's invention of Raman Effect. Poster presentations and quiz competitions are conducted and achievers are honored with certificates. Scientists in the vicinity from the central and national organizations are invited as guests to motivate faculty and students by bringing the context of latest inventions and research.

## Diwali Celebrations

Our Institute celebrate the hindus main festival Diwali, the festival of lights , came alive at Aravali Institute of Technical Studies on every year when the whole Campus wore a festival look with pots, diyas and lanterns adorning the reception and corridors of the . The rangoli theme of eco friendly Diwali by the students of all branches assed the perfect setting to the festivity. This Celebration was organized by the Art and Culture Club.

## Sports Day

In India, sports days are held for 2 - 3 days. These include games like 100 meter race , sack race , cricket , volleyball etc. These sports days are held between the various houses in a particular school. In India, many traditional games such as Kho-Kho and Kabaddi, March-past are played.

## Aroma Annual Fest

The college believes in all-round development of its students. It constantly encourages them to take part in extra-curricular activities to spark their interests and cultivate leadership qualities as well as team spirit. Every year the college conducts cultural programs to make this happen.

Two open air theatres are allotted for conducting different types of cultural programs. 50-100 students actively participate in these events. Activities conducted include dance (solo and group), ramp walk, singing, pot breaking and tradition day etc.

File Description	Document
Link for Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

### 7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format

**provided in the Manual.**

**Response:**

**(A.) Title of the practice:** Faculty Interaction with Industry.

**Objectives of the practice:**

1. To enrich the Teaching-Learning process with the support from the Industries
2. To initiate need based collaborative programs
3. To have association with wide spectrum of industry
4. To establish long term association with industries in an organized manner.

**The Context:** Industry – Institute interaction is an indispensable requirement to enrich the Teaching-Learning Process. Institute has initiated One Faculty One Industry Drive so that each faculty could get opportunity to interact with their domain of interest which would consequently broaden the spectrum for industrial exposure to students since industries being the major stake holder for technical institution. One to one contact for the industry from institute would be highly beneficial to strengthen the interaction with industry.

**The Practice:**

An industry is Identified by each faculty of the institute as per their field of interest and various activities will get initiated which will provide industrial exposure to the students and faculty as well. An administrative committee is constituted by the Institute which coordinates this practice.

**Problems encountered and resources required:**

For implementing this practice, Institute offers support by providing funding, travelling allowances etc. to be in association with the industries and for organizing various activities. Involvement of individual faculty would strengthen the interaction in an organized manner with wide spectrum of industries.

**Evidences of success:**

1. Formation of collaboration between SSME,ISRO Ahmadabad and the Institution
2. The MOU signed have been significantly improved to 5 in number.
3. Significant improvement in interaction with industry through industrial visits and expert talk by industry experts.
4. Improvement in Industry sponsored Live Project at UG/PG level.

## 7.3 Institutional Distinctiveness

### 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

#### Response:

#### Institutional Distinctiveness

Through rigorous planning and management, the institution focuses at delivering to the best of it's abilities the vision of the college. It has been a matter of utmost importance to provide the best education possible to students who deserve it. Through several institutional practices, AITS tries to make this journey as easy as possible for everyone.

One of the most important steps taken at the institution was the establishment of the **Entrepreneurship Cell (E-Cell)** in the campus. With a distinctive vision of providing a path for young minds to follow and Develop their skills, the Entrepreneurship Cell (e-cell) is one it's it kind. The construction of this center was a step taken by the college to prepare the students for their future journey as entrepreneurs. Allowing them to pursue their dreams along with a sense of direction, the e-cell helps those with a view to shape the global economy.

It facilitates the ideas and recommendations of today's youth and allows them to transform these ideas into upcoming venture by providing them the necessary resources to execute their well-thought out plans in the future. It aims at assisting the students to implement their ideas without apprehensions. The following objectives were set for e-cell:

Create awareness on Entrepreneurship among the students through training programs and campus events

1. To create data base and networking to help entrepreneurs
2. To assist entrepreneurs in product development
3. To identify and motivate budding entrepreneurs
4. To facilitate budding entrepreneurs by providing information on entrepreneurial opportunities
5. The following functions are carried out by the e-cell :
6. To organize Entrepreneurship Awareness Camps, Entrepreneurship Development Programs and Faculty Development Programs in the region for the benefit of AITS students.
7. To arrange visits to industries
8. To organize guest lectures, TV & Radio talks, Seminars and more for promotion and growth of AITS based entrepreneurship.
9. To extend necessary guidance and escort services to the trainees in obtaining approval and execution of their projects.

10. E-Cell organised different types of activity in AITS
11. Entrepreneurship awareness camps
12. Entrepreneurship development programs
13. Technology based entrepreneurship development programs (TEP)
14. National Level Entrepreneurship Competitions

The college aims at creating a breeding ground for the students to grow and achieve success. The e-cell is a step towards facilitating the students with the necessary exposure, knowledge and experience required to gain success. It allows the students to witness the working of the real world and develop their skills. With entrepreneurship skills, the student becomes more confident, determined and focused about his/her future. The student's welfare is the most utmost and urgent task of the management. Through the establishment of the e-cell the college practices its vision as it enables the students to become confident and contribute significantly to the world. The E-Cell is managed with high priority and is given high importance by all. The dedication and determination of the management to promote growth in the sphere of entrepreneurship allows the E-Cell to function to its fullest and discharge its duties effectively preparing the students of AITS for their future.

<b>File Description</b>	<b>Document</b>
Link for any other relevant information	<a href="#">View Document</a>

## 5. CONCLUSION

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### **Additional Information :**

We emphasise on the overall personality development of the students and prepare them to be mentally and physically mature enough to face the vicissitudes of life with optimism, courage and fortitude. We recognise and are proud of the fact that our College campus is located in one of the most scenic areas in the country i.e. City of lakes. Our College team tirelessly working for maintaining idyllic environment as we continue to develop and cater for an increased student population and focus environmentally friendly campus that can be enjoyed by students, staff, the community and visitors alike.

### **Concluding Remarks :**

Aravali Institute of Technical Studies, an Rajasthan Technical University, Kota affiliated institution located in Udaipur, Rajasthan, which was established in the year 2006 with an aim to foster higher education for all and to provide excellent professional education in rural India to uplift the downtrodden communities. Aravali Institute of Technical Studies was established in the year 2008 with four UG Programmes with a total intake of 240 students and 35 faculty members; the college stands tall today by offering five UG programmes, Six PG programmes with a strength of 587 students and 101 faculty members. The 10.12 acres green campus is completely encompassed by a compound wall and 16192 square meters is earmarked for Aravali Institute of Technical Studies.

The college has a magnificent past and efforts are being made for its bright future, therefore every action is carefully planned, so as to foster the composite cultural heritage of the region.

The primary objectives of the Institute are:

1. To provide for and promote education and research in the fields of Technology, Science, Humanities, Industry, Business, and Public Administration
2. To collate and disseminate effective ideas, methods, techniques and information in such fields as are likely to promote the material and industrial welfare of India
3. To train young men and women able and eager to create and put into action such ideas, methods, techniques and information.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
1.3.2	<p><b>Average percentage of courses that include experiential learning through project work/field work/internship during last five years</b></p> <p><b>1.3.2.1. Number of courses that include experiential learning through project work/field work/internship year-wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th><th>2014-15</th></tr></thead><tbody><tr><td>24</td><td>16</td><td>16</td><td>16</td><td>16</td></tr></tbody></table> <p>Answer After DVV Verification :</p> <table border="1"><thead><tr><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th><th>2014-15</th></tr></thead><tbody><tr><td>04</td><td>04</td><td>04</td><td>04</td><td>04</td></tr></tbody></table> <p>Remark : DVV has made the changes as per provided report of courses by HEI.</p>	2018-19	2017-18	2016-17	2015-16	2014-15	24	16	16	16	16	2018-19	2017-18	2016-17	2015-16	2014-15	04	04	04	04	04																				
2018-19	2017-18	2016-17	2015-16	2014-15																																					
24	16	16	16	16																																					
2018-19	2017-18	2016-17	2015-16	2014-15																																					
04	04	04	04	04																																					
2.1.1	<p><b>Average Enrolment percentage (Average of last five years)</b></p> <p><b>2.1.1.1. Number of students admitted year-wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th><th>2014-15</th></tr></thead><tbody><tr><td>300</td><td>283</td><td>314</td><td>364</td><td>392</td></tr></tbody></table> <p>Answer After DVV Verification :</p> <table border="1"><thead><tr><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th><th>2014-15</th></tr></thead><tbody><tr><td>300</td><td>283</td><td>314</td><td>364</td><td>392</td></tr></tbody></table> <p><b>2.1.1.2. Number of sanctioned seats year wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th><th>2014-15</th></tr></thead><tbody><tr><td>582</td><td>618</td><td>618</td><td>606</td><td>606</td></tr></tbody></table> <p>Answer After DVV Verification :</p> <table border="1"><thead><tr><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th><th>2014-15</th></tr></thead><tbody><tr><td>504</td><td>594</td><td>594</td><td>594</td><td>594</td></tr></tbody></table> <p>Remark : DVV made the changes as per extension of approval of affiliation provided by HEI.</p>	2018-19	2017-18	2016-17	2015-16	2014-15	300	283	314	364	392	2018-19	2017-18	2016-17	2015-16	2014-15	300	283	314	364	392	2018-19	2017-18	2016-17	2015-16	2014-15	582	618	618	606	606	2018-19	2017-18	2016-17	2015-16	2014-15	504	594	594	594	594
2018-19	2017-18	2016-17	2015-16	2014-15																																					
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504	594	594	594	594																																					

2.3.3	<p><b>Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )</b></p> <p>2.3.3.1. Number of mentors          Answer before DVV Verification : 80          Answer after DVV Verification: 27</p> <p>Remark : DVV made the changes as per list of mentors for 2018-19 provided by HEI.</p>																				
2.4.3	<p><b>Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)</b></p> <p>2.4.3.1. <b>Total experience of full-time teachers</b>          Answer before DVV Verification : 480          Answer after DVV Verification: 274</p>																				
3.1.1	<p><b>Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)</b></p> <p>3.1.1.1. <b>Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)</b>          Answer before DVV Verification:</p> <table border="1" data-bbox="304 1025 1046 1160"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>0.50</td> <td>0.54385</td> <td>0</td> <td>0.45000</td> <td>0.05000</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1240 1046 1375"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>0.50</td> <td>0.283</td> <td>0</td> <td>0.564</td> <td>0.225</td> </tr> </tbody> </table> <p>Remark : DVV made the changes as per e-copies of grant letter provided by HEI.</p>	2018-19	2017-18	2016-17	2015-16	2014-15	0.50	0.54385	0	0.45000	0.05000	2018-19	2017-18	2016-17	2015-16	2014-15	0.50	0.283	0	0.564	0.225
2018-19	2017-18	2016-17	2015-16	2014-15																	
0.50	0.54385	0	0.45000	0.05000																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
0.50	0.283	0	0.564	0.225																	
3.1.2	<p><b>Percentage of teachers recognized as research guides (latest completed academic year)</b></p> <p>3.1.2.1. <b>Number of teachers recognized as research guides</b>          Answer before DVV Verification : 35          Answer after DVV Verification: 0</p> <p>Remark : E-copies of letters of teachers not provide by HEI.</p>																				
3.1.3	<p><b>Percentage of departments having Research projects funded by government and non government agencies during the last five years</b></p> <p>3.1.3.1. <b>Number of departments having Research projects funded by government and non-</b></p>																				



**government agencies during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
01	03	0	5	2

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
01	02	0	5	2

**3.1.3.2. Number of departments offering academic programmes**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
05	05	05	05	05

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
05	05	05	05	05

Remark : DVV has counted one departments having research projects once for year.

**3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years****3.2.2.1. Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
16	15	10	10	05

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
14	09	08	08	03

**3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years****3.3.2.1. Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15

43	28	06	09	12
----	----	----	----	----

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
32	24	05	08	11

3.3.3 **Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

3.3.3.1. **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
35	58	43	65	54

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
35	58	41	65	54

Remark : DVV made the changes as per first page of books and chapters not provided by HEI.

3.4.3 **Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years ( including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

3.4.3.1. **Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
19	13	11	11	09

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
07	04	04	01	02

3.4.4 **Average percentage of students participating in extension activities at 3.4.3. above during last five years**

3.4.4.1. **Total number of Students participating in extension activities conducted in**

**collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
665	746	802	884	877

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
1050	157	345	50	146

**3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

**3.5.1.1. Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
16	16	05	07	07

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
10	11	01	04	03

**4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)**

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 27

Answer after DVV Verification: 0

Remark : DVV has not considered list of classrooms and seminar halls with ICT facilities without signature and also geotagged photographs. DVV cross check with website we not found anything regarding about classrooms and seminar halls with ICT- enabled facilities.

**4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

**4.2.3.1. Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0.97	2.16	2.04	4.08	3.36

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
1.09	2.35	1.85	7.74	5.57

Remark : DVV made the changes as per expenditure of purchase of books and journals in audited statement provided by HEI.

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

**4.4.1.1. Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
203.06	257.37	268.12	249.09	213.03

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
62.72	61.20	56.46	52.66	31.38

Remark : DVV made the changes as per expenditure of repair & maintenance and bus maintenance in audited statement for 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19 provided by HEI.

**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**5.2.3.1. Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.) year-wise during last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
02	01	0	02	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
01	0	0	0	0

**5.2.3.2. Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
30	33	34	32	20

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
30	33	34	32	20

Remark : DVV has not considered input in absence of certificate.

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
4	5	6	5	6

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	6	3	5

Remark : DVV has not considered participation certificate.

**5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)**

**5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
16	28	20	24	13

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15

13	25	17	21	10
----	----	----	----	----

6.3.2 **Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**

**6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
26	25	15	10	13

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
26	24	15	10	12

Remark : DVV made the changes as per sanction order for 2014-15 and 2017-18 provided by HEI.

6.3.3 **Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

**6.3.3.1. Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
12	10	12	5	2

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
3	4	3	3	2

6.3.4 **Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

**6.3.4.1. Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
---------	---------	---------	---------	---------

70	82	64	87	91
----	----	----	----	----

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
67	82	60	85	86

Remark : DVV has not considered those teachers are participated in less than 5 days programs.

**6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)**

6.4.2.1. Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	2.53	0	17.53

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	2.06	0	17.53

Remark : DVV made the changes as per grants received for 2016-17 provided by HEI.

**7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:**

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Answer before DVV Verification : D.1 of the above

Answer After DVV Verification: A. Any 4 or all of the above

**2.Extended Profile Deviations**

**Extended Profile Deviations**

No Deviations