

SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**AVANTHI INSTITUTE OF ENGINEERING &
TECHNOLOGY**

GUNTHAPALLY(V),ABDHULLAPURMET(M),R R DIST,HYDERABAD

501512

www.aietg.ac.in

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NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Avanthi Institute of Engineering & Technology, Hyderabad is sponsored by Avanthi Educational Society, established in the year 1991, with the able leadership of Sri.M.Srinivasa Rao, Member of Parliament (Anakapalli-AP) came into being with a congregation of dedicated academicians and able administrators in the field of higher education and learning. This Institution has achieved accreditation status from National Board of Accreditation for ECE & CSE UG Programmes. The society has grown into a large group of more than 13 educational institutions having student strength more than 16,000 pursuing education in the field of Engineering & Technology, science, commerce, IT & Management under this fold.

The Institute has a sprawling area of 10.46 acres and lush green ambience. The Institute is affiliated to Jawaharlal Nehru Technological University, Hyderabad, Telangana and approved by All India Council for Technical Education (AICTE). The Institute provides B. Tech degree programs in four branches, M. Tech in five specializations and MBA. The Institute's library has 34124 volumes of books and a good number of national and international journals. It has well qualified and experienced Faculty members in all the Departments. Guest Lectures by eminent Scholars, Industrialists and Experts from reputed I.T industries are conducted frequently, in addition to seminars and workshops to motivate and inspire the students. Students are encouraged for GATE, GRE and TOEFL tests. For this English development material is made accessible to the students to compete with the best practice. Faculty is encouraged to do research.

Vision

To develop highly skilled professionals with ethics & human values.

Mission

To provide a positive and professional learning environment where all students are inspired to strive for excellence in order to achieve their potential as dignified and competent engineers, technology innovators, managers and leaders in global society through a cohesive network for the parents, students, college staff and industry.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Institutional Strength: Well defined organizational structure. The college has a defined organization structure with statutory Bodies, cells and committees for translation of the college strategy. Outstanding Human Resources Management 15% of total faculty are PhD and 21% of its faculty strength are pursuing PhD. Well defined Processes The college has processes critical for the operation and administration of the college to ensure accuracy, efficiency and results. Wide Academic linkages There are linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities; 15 MoU s with institutions of

national, importance and other colleges, industries, corporate houses. Comprehensive Care System for the Students. A Comprehensive Care System for Students is integral for inculcation of human values, peaceful living in a multicultural society and preparation to be good citizens of our country and the world community. Vibrant Research Climate The college has fostered a vibrant research climate with a Research Policy including an incentive for Professional Development Allowance Fund. Dynamic Academic Environment Workshops, conferences, departmental organized internships, seminars, symposia and colloquia are interspersed through the year Social Commitment and Extension work Social involvement instinctively drives faculty and students of the college to respond to social issues in the society. An attractive work environment The college ensures an inclusive workplace by fostering a community spirit at work.

Institutional Weakness

Institutional Weakness:

The perception of the region as being remote persists and this has impeded attracting faculty and students from other states in the country. However, the college has improved its overall faculty representation from other states in recent years and currently around 5% of regular faculty members are from other states.

Limited Financial Resources:

The college is dependent on the income from tuition fees and struggles to build adequate reserves. However, the college growth has been carefully calibrated to the funds available, ensuring a sustained momentum while ensuring a prudent use of the available resources. This weakness has been mitigated by a robust fund-raising campaign over the years to meet the capital expenditures of the college.

Institutional Opportunity

- Campus is viable for conducting research work.
- Foundation for Innovative and Collaborative Education.
- Innovative in-house projects for UG and PG Students.
- Transforming the students to make Industry Ready for Job Opportunity.

Institutional Challenge

- Institutional Challenge Competition from local and regional institutions.
- Admitting sufficient number of quality students with strong interest in engineering.
- Create awareness for engineering profession and related job opportunities.
- Providing scope for employability of the students in volatile market.
- Promoting study-abroad and student-exchange programme for higher semester students.
- Exposing the teaching faculty to the Industrial scenario.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institution appoints well qualified faculty, who in turn prepares lecture plan following the curriculum designed by the affiliating University. Prepares schedule of learning process of students keeping in view of the diversified students admitted in to the college. Apart from regular class work extra classes and remedial classes are also incorporated into the schedule to improve the students performance.

Overall development of the student is the mission of the institute. Even though there is a mention in the curriculum to have the number of classes per subject/course, weekly, due to the academic flexibility we increase the timeframe of courses. Horizontal mobility, inter disciplinary options are facilitated. The institute introduced some supplementary enrichment programs like special software training programs , industrial training in the form of internships and projects. Exposure to activities which enhances the performance of students.

Regular feedback system is an active process, analyzing it and proper needed steps are taken to enhance the learning effectiveness. Along with the curriculum taught to the students also are made to value the human values and professional ethics.

Teaching-learning and Evaluation

In our institution when it comes to teaching learning and evaluation, curriculum gives the flexibility to introduce seminars, guest lectures, tutorial hours, advanced experiments, internships, co-curricular, extra-curricular activities etc., and faculty also on their own introduces group discussions, quiz programs, debates, elocution, debates, seminar presentations by students, Power point presentations by students, mini projects, industrial tours, etc., for augmenting learning process.

As the institution has diversity of learners, institution takes care according to the need of the student. For example students coming from regional language background are taken care to improve their communication skills, students from economically background are encouraged by giving some freeships, students from families having no educational environment in their families are taken care by giving additional time to improve their performance, etc., By introducing English language laboratory, remedial classes, lecture delivery process by individual teachers with in time limit. Towards fulfilling this objective, only qualified and experienced faculty is recruited. Before recruiting faculty are thoroughly tested for teaching abilities through demos and successive lectures. And faculty are also tested according to the requirement of affiliating university by subject committee members.

A well built proctorial system has been in existence in the institution right from the inception. Students continuously receive guidance and encouragement, attention and advices from their respective proctors/mentors throughout their academics.

The evaluation process for students has been fixed by the affiliating university and inspected or scrutinized by the affiliating university every academic year.

Research, Innovations and Extension

The institute gives enough support to the faculty in all means. Supports faculty to take up the needed measures for the overall development of the students and also in the personal growth. For example Supports for research projects carried out internally or with inter departmental or external co-ordinations. The institution has no dearth of funds for creating space for the faculty and also for the students, and for purchasing the required equipment to enhance and update the laboratories and etc., for the research to be carried.

Research is one of the top priority of the management for which management is able to recruit the staff members to develop the consultancy in engineering departments where testing and certification will be done.

The institution has agreement with industries for providing internship to students and supporting for their projects, also workshops are conducted for the students to have hands on experience inviting the experts from industries.

A Consultancy Policy facilitates projects with various institutes.

Research Journals and Publications : In the last five years most of the faculty published their works in reputed journals and publications, out of which some are UGC approved. The index of the college period is very much satisfactory from the Scopus and web of science.

Collaborations : (10) MoU s with institutions, companies, industries, corporate houses of national importance and other colleges is facilitating the sharing of research.

Infrastructure and Learning Resources

Physical Infrastructure : The campus area round sup to nearly 10.27 Acres and built up area counts to 16879 square meters. The college has an impressive array of facilities. Classrooms, Laboratories, recreational and sports facilities of indoor and outdoor games, utilities and services, good plantation, quiet corners, parking area, several performance areas and a health centre. Put together the campus have ample provision for academics and administration.

Classrooms and Labs : In all the college has 3 blocks having 39 classrooms, 50 Laboratories, engineering workshops, machine labs and 5 Seminar halls.

Internet and ICT resources : All administrative offices of the college are computerized and the offices have LAN and WiFi connectivity. The internet capability of the college includes Global Netlinks online 100 Mbps leased line with several servers for internet and intranet, and also having 24LCD classrooms, all aspects of college administration are computerized.

Library Resources : The library of the campus is virtually centralized and offers access to 29808 books and 4491 of E-journals and reference books.

Web OPAC makes all subscribed databases, consortium materials. E-resources and in-house publications accessible on campus and remotely.

Maintenance of campus Infrastructure : The college is highly appreciated for the sheer beauty and cleanliness of its campus with two turf wicket cricket ground and the sense of ownership and commitment of its maintenance staff.

Development with Eco-Consciousness and sustainability is resulting in a truly green, healthy and pollution free environment campus.

Student Support and Progression

A comprehensive Care System, is designed to provide a 'holding environment', which provides for the holistic development of the students, (understanding the value of education, knowing self and the society, following human values and professional ethics)

Student Activity Clubs : creates interest in both technical and non-technical activities and talent promotion.

Career Guidance Cell creates awareness on career opportunities in emerging fields. Coaching for competitive exams such as GATE, CAT, UPSC are also organized.

Training and Placement Cell provides training in aptitude, technical and personal competencies and facilitates job placement. The institution had tied up with some institutes for this purpose.

Continuing education using ICT : The college has been chosen a Remote Centre for Spoken Tutorials, NPTEL online courses and certification, MOOC courses are also arranged.

Counseling services are available for students to address the pressures of family expectations, personal expectations, academic pressure, psychological adjustments and identity formation.

Health Care Unit : Campus infirmaries, annual medical camps, health services are available in the campus to take care of health issues and immediate attention is provided for the students health problems.

Grievance Redressal Mechanism: From the time of its inception. It is functioning smoothly and regularly towards the improvement of students issues related to personal, educational, financial, etc.,

Scholarship scheme : Supporting students to get government provided scholarships and also the college provides merit-cum means scholarships out of a dedicated corpus fund for outstanding students.

Governance, Leadership and Management

The management and various administrative bodies of the institution are coordinating and functioning towards meeting the objectives of vision and mission of the institution for the holistic development of the students. Also to meet the program educational objectives of various programs.

Major Decision making Bodies : Governing Body, Board of Management, Academic Council Body, Departmental Boards, Board of Studies will be conducting meetings for decision making for the proper functioning of the system.

Process Mapping and Standard Operating Procedures are followed under the guidance of management and Principal for all systems in the college to ensure excellence in every field.

Smaller Structure of Governance, namely Disciplinary committee, Anti-Ragging committee, Students Redressal committee, Grievance committee etc., for various purposes, are built in to ensure the involvement and participation of every member of the institution for the development of students and as well the institution.

Faculty Empowerment Strategies include staff Development Programmes, Professional Development Allowance, Induction and Orientation Programmes, Performance Appraisal and Feedback, Refresher courses internally. Externally faculty are also send to attend the various Faculty Development programs, Workshops etc., conducted by any institutions or organizations.

Management and Financial Resources : A Finance Committee for budgets and internal audits, external auditor for final audit, an investment firm to manage the investment of any surplus fund and corpus fund.

The Role of IQAC : The IQAC is involved in planning, auditing performance, vetting strategic issues and in maintaining quality parameters.

Institutional Values and Best Practices

Institutional Values: This is an area of that is deeply ingrained in the foundational principles of the college and are expressed in all related parameters: gender sensitivity and equity, eco-consciousness, management of water resources and waste disposal, promotion of green practices, use of alternate energy, facilities for the differently able, promotion of human values and professional ethics, patriotism and a sense of pride in the nation etc.

Best Practices: college takes pride in

1. Creation and maintenance of an Eco-friendly Campus: The college has developed a multi-pronged approach in the following areas: Established variegated plantations in teak, neem, coconut, lemon, and Turmeric . Adopted scientific water harvesting by creating tanks and lakes to ensure replenishment of the ground water levels. Adopted an effective waste collection and disposal system. Landscaped the campus to control storm water drainage and soil erosion.

2. Social Commitment as a way of life: Social Commitment runs in the genes of the college and its sponsoring society. This has led to the establishment of a 'Centre for Development Studies and Initiatives' by promoting community led improvement initiatives in six thematic areas to bring about progress in nearby villages neighboring the college. The thematic areas are: Livelihood and food security Promotion of Education Promotion of Community health Promotion of self-governance systems Promotion of social security Community organization

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2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
Address	GUNTHAPALLY(V),ABDHULLAPURMET(M), R R DIST,HYDERABAD
City	HYDERABAD
State	Telangana
Pin	501512
Website	www.aietg.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	MOHAMMED YOUSUF ALI	08415-309455	9704755509	040-66781220	principal.avanathi@gmail.com
Associate Professor	K A L GANDHI	-	9491123682	-	kalgandhi22@gmail.com

Status of the Institution	
Institution Status	Self Financing

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	01-01-2005			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name		Document	
Telangana	Jawaharlal Nehru Technological University		View Document	
Details of UGC recognition				
Under Section			Date	
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	View Document	10-04-2017	12	

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

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	GUNTHAPALLY(V),ABDH ULLAPURMET(M),R R DIST,HYDERABAD	Rural	10.27	16879

2.2 ACADEMIC INFORMATION

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Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Mechanical Engineering	48	Intermediate	English	180	27
UG	BTech,Electronics And Communication Engineering	48	Intermediate	English	180	84
UG	BTech,Computer Science And Engineering	48	Intermediate	English	120	80
UG	BTech,Electrical And Electronics Engineering	48	Intermediate	English	60	17
PG	Mtech,Electronics And Communication Engineering	24	BE or B Tech	English	18	6
PG	Mtech,Computer Science And Engineering	24	BE or B Tech	English	24	1
PG	Mtech,Computer Science And Engineering	24	BE or B Tech	English	24	6
PG	Mtech,Electrical And Electronics Engineering	24	BE OR B TECH	English	24	24
PG	MBA,M B A	24	ANY DEGREE	English	180	36

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	23				36				134			
Recruited	18	5	0	23	29	7	0	36	92	42	0	134
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				52
Recruited	32	20	0	52
Yet to Recruit				0

Technical 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				23
Recruited	16	7	0	23
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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.	18	5	0	0	0	0	0	0	0	23
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	29	7	0	92	42	0	170

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	10		5		15

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
UG	Male	223	3	0	0	226
	Female	87	0	0	0	87
	Others	0	0	0	0	0
PG	Male	41	0	0	0	41
	Female	43	0	0	0	43
	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	13	29	74	14
	Female	12	19	33	12
	Others	0	0	0	0
ST	Male	13	24	34	8
	Female	3	3	20	3
	Others	0	0	0	0
OBC	Male	144	191	277	166
	Female	61	85	127	55
	Others	0	0	0	0
General	Male	113	163	147	115
	Female	45	65	57	55
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		404	579	769	428

3. Extended Profile

3.1 Programme

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

Response : 8

Number of self-financed Programmes offered by college

Response : 3

Number of new programmes introduced in the college during the last five years

Response : 0

3.2 Student

Number of students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1764	2177	2192	1863	1920

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

2016-17	2015-16	2014-15	2013-14	2012-13
135	216	405	176	308

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

2016-17	2015-16	2014-15	2013-14	2012-13
411	561	516	446	542

Total number of outgoing / final year students

Response : 2476

3.3 Academic

Number of teachers year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
197	190	179	152	134

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

2016-17	2015-16	2014-15	2013-14	2012-13
197	190	179	152	134

Number of sanctioned posts year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
197	190	179	152	134

Total experience of full-time teachers**Response : 4015****Number of teachers recognized as guides during the last five years****Response : 3****Number of full time teachers worked in the institution during the last 5 years****Response : 100****3.4 Institution****Total number of classrooms and seminar halls****Response : 44****Total Expenditure excluding salary year wise during the last five years (INR in Lakhs)**

2016-17	2015-16	2014-15	2013-14	2012-13
348.15	455.63	613.79	606.09	753.99

Number of computers

Response : 478

Unit cost of education including the salary component(INR in Lakhs)

Response : .58

Unit cost of education excluding the salary component(INR in Lakhs)

Response : .2

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4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

The college has developed all around characterized plans for the effective and productive execution of the educational programs (curriculum) and most elevated need is given for academics.

- The curricular activities of the college reflects various activities planned during a semester / year and these activities are based on the University calendar.
- The course plans along with lecture notes are prepared by the faculty well in advance for all subjects before the commencement of the semester. These are appropriately checked by respective heads of the departments.
- All the departments prepare a calendar of programmes containing curricular activities that will be undertaken in an academic year. This helps the departments in effective execution of their plans.
- The Department review committee holds a meeting twice in semester to review the syllabus coverage for all the subjects and the laboratories.
- Department meetings are organized once for every 15 day to discuss the effective implementation of curricular activities.
- Apart from university curriculum to enhance effective learning our institution has initiated an additional weekly test programme by which students performance is analyzed and effective measures such as tutorials, remedial classes etc are being implemented.
- Research related projects are done by the students to enhance the practical knowledge.
- Student counseling is also introduced and it is been running fruitfully in the institution from the last 5 years.
- In the beginning of academic year every department will organize a faculty development programme for 1-3 days.
- Institution also organizes Guest lectures by eminent personalities from esteemed institutions like IITs, NITs, and from various hard ware and software industries etc., this will help the faculty and students to know the latest trends in the fields of specialization.
- Faculty members and students are encouraged and sponsored to attend seminars, workshops and guest lecturers organized in premier institutes like IITs, NITs etc., to enhance their technical skills.

1.1.2 Number of certificate/diploma program introduced during the last five years**Response:** 33**1.1.2.1 Number of certificate/diploma programs introduced year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
11	7	6	4	5

File Description	Document
Details of the certificate/Diploma programs	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years**Response:** 17.37**1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
40	35	30	25	20

File Description	Document
Details of participation of teachers in various bodies	View Document

1.2 Academic Flexibility**1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years****Response:** 75**1.2.1.1 How many new courses are introduced within the last five years****Response:** 6

File Description	Document
Details of the new courses introduced	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 9

File Description	Document
Name of the programs in which CBCS is implemented	View Document

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

Response: 39.19

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

2016-17	2015-16	2014-15	2013-14	2012-13
945	881	790	645	600

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Education doesn't mean imparting academic knowledge. A student is considered to be educated when he/she has certain noble traits which contribute for the welfare of the society. Ethical values, social consciousness and moral values are to be imparted along with the academics to the students, and then they will be termed as the true person with moral values.

institute of technology and science always strives to put the students in the frontline in the matter of imparting great character with various social welfare activities for the society because we have to live not just for ourselves but care for other social beings as well and make this a place for beautiful living.

Many activities are conducted under the NSS wing like blood donation camp, tree plantation, SwachBharat, Bathukamma and Medical camp.

Importance of the events:

1. **Tree plantation:** As the inhabitants of this place we have to protect Mother Earth by planting trees and create Green belt which results in good rainfall, control seasonal changes like temperature rising, pollution control, sea level rising and to check soil erosion.
2. **Blood donation camp:** 'Do not waste your blood on roads donate it save someone's life'.
3. **Swach Bharat:** The prestigious programme initiated by Hon'ble prime minister for establishing hygienic ambience
4. **Bathukamma:** The floral festival of Telangana and pride of the state celebrated with great pomp.
5. **Medical camp:** To keep the fitness both physical and mental is very important to sustain in this cut-throat – competitive world to overcome stress.
6. **Visit to orphanage and old age home:** It imparts social responsibility and human values among the students
7. **Awareness rally:** This awareness rallies will encourage the students and the others by giving the importance of the cause.

Gender sensitization has been introduced to the B.Tech students by JNTUH as per the UGC directions and guidelines. This course is useful for B.Tech students and adults as following points:

1. To sensitize them as gender bias.
2. To eradicate gender discrimination.
3. To eradicate women harassment.
4. To empower women with the examples of dynamic women personalities in different fields in India like Kiranbedi, chanda Kocchar, Chhavi Rajawat, Sit Sahu, Sappar shanty tigga, Arundhathi Battacharya e.t.c.
5. To generate awareness as women protection and rights that enacted in constitution of India.

IMPORTANCE OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY

As a part of curriculum all the students will be studying "Environmental studies" which

gives them exposure to various environmental related problems. This will make and motivate the young engineering minds aware and proper usage of resources, protecting of bio-diversity, controlling of pollution, etc. By this, an engineering student will become a responsible person who protects the environment .

File Description	Document
Any Additional Information	View Document

1.3.2 Number of valued added courses imparting transferable and life skills offered during the last five years

Response: 20

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 20

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 26.46

1.3.3.1 Number of students undertaking field projects or internships

Response: 435

File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System

1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise

A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

1.4.2 Feedback processes of the institution may be classified as follows:

A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

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

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Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 1.06

2.1.1.1 Number of students from other states and countries year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
25	19	20	22	18

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 59.48

2.1.2.1 Number of students admitted year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
284	491	762	430	593

2.1.2.2 Number of sanctioned seats year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
966	966	966	888	660

File Description	Document
Institutional data in prescribed format	View Document

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 100

2.1.3.1 Number of actual students admitted from the reserved categories year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
135	216	405	176	308

File Description	Document
Institutional data in prescribed format	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

In our institution when it comes to teaching learning and evaluation, curriculum gives the flexibility to introduce seminars, guest lectures, tutorial hours, advanced experiments, internships, co-curricular, extra-curricular activities etc., and faculty also on their own introduces group discussions, quiz programs, debates, elocution, debates, seminar presentations by students, Power point presentations by students, mini projects, industrial tours, etc., for augmenting learning process.

As the institution has diversity of learners, institution takes care according to the need of the student. For example students coming from regional language background are taken care to improve their communication skills, students from economically background are encouraged by giving some freships, students from families having no educational environment in their families are taken care by giving additional time to improve their performance, etc., By introducing English language laboratory, remedial classes, lecture delivery process by individual teachers with in time limit. Towards fulfilling this objective, only qualified and experienced faculty is recruited. Before recruiting faculty are thoroughly tested for teaching abilities through demos and successive lectures. And faculty are also tested according to the requirement of affiliating university by subject committee members.

A well built proctorial system has been in existence in the institution right from the inception. Students continuously receive guidance and encouragement, attention and advices from their respective proctors/mentors throughout their academics.

The evaluation process for students has been fixed by the affiliating university and inspected or scrutinized by the affiliating university every academic year.

All the above mentioned measures are always oriented towards achieving the program outcomes formulated by the institution.

2.2.2 Student - Full time teacher ratio**Response:** 7.87

File Description	Document
Institutional data in prescribed format	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls**Response:** 0**2.2.3.1 Number of differently abled students on rolls**

File Description	Document
Institutional data in prescribed format	View Document

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:****Student Centric methods**

The total teaching learning process is student centered. Innovative methods are put into practice to enhance the skills of students.

- Group discussions are conducted to improve the spontaneous thinking and to foster better communicative skills.
- Guest lectures and interactive sessions with experts from industries and national institutes are organized to develop learning skills.
- Industrial visits, Educational tours and field trips are arranged to offer practical component to the learning process.
- LCD Projectors and ICT methods are used to supplement the regular teaching.
- Students are made to participate in paper presentations, PowerPoint presentations to build a sense of original thinking.
- Library is fully utilized independently and intensively to enhance their knowledge.

- 1.College follows the norms laid by the affiliating university and government relating to the admission process.
- 2.SC, ST, OBC, WOMEN and minorities, all are given due weightage without any discrimination adhering to the principles of inclusion in the education.
- 3.The institution is consistently undertaking the efforts in order to prepare the students to take up the challenges which are posed by the changing educational environment and has become the need for engineering students.

4. Considering student as an important stakeholder of the institute, various activities are conducted during the academic year.

1. Separate lectures are arranged for soft skill and technical skill development.
2. The students are engaged in tutorials to understand the course better.
3. Assignments on advanced topics in every course are given for the students.

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 74.16

2.3.2.1 Number of teachers using ICT

Response: 155

File Description	Document
List of teachers (using ICT for teaching)	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 8.93

2.3.3.1 Number of mentors

Response: 184

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Innovation and Creativity

Creativity and Innovation are becoming increasingly important and are essential factors for a more competitive Engineering education in the 21st century knowledge society.

- The upsurge of new media and technologies that learners use in their everyday lives can be exploited in creative and innovative ways and contribute to formal and informal learning.
- Creativity is a form of knowledge creation, therefore stimulating creativity has positive spillover effects onto learning, supporting and enhancing self-learning, learning to learn and life-long learning skills and competences.

- The evaluation of creativity needs therefore to take into account students' and teachers' perspectives. Moreover, creativity in education has more to do with the process than with the product, and focuses therefore on the development of thinking and cognitive skills.
- Teachers are key figures in constructing a creative climate, allowing freedom and time for discovery, and taking learners' interests into account.

1. The institution provides a platform for the students to exhibit their creative talent. Yearly Tech-Fest is conducted where the students can exhibit their creative ideas.
2. Competitive spirit, confidence and encouragement among the students enhances.
3. Also they compete with the students from other colleges who will be invited for the tech-fest conducted in the campus. At the same time even our students take part and compete in the other institutions fest with the invitation received.
4. Institution rewards the best standing students in this type of fests and encourages them for their future.

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

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 11.34

2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
25	22	18	17	15

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document

2.4.3 Teaching experience of full time teachers in number of years

Response: 19.21

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	View Document

2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 11.9

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
26	23	20	18	15

File Description	Document
Institutional data in prescribed format	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 11.42

2.4.5.1 Number of full time teachers from other states year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
45	36	15	6	4

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The JNTU University, Hyderabad, to which the institute is affiliated, have framed the internal evaluation process to maintain standards of quality. The institute has adopted the reforms introduced by the university:

The internal assessment as below

- Grading of weightage for two internal examinations.
- The total internal evaluation carries 25% weightage.
- Modification in weightage for mid marks

a. 10 marks for descriptive

b. 10 marks for objective

c. 5 marks for assignment.

- Preparation of three sets of question paper for internal exams, out of which one set is selected on the day of examination..
- Student focused learning through assignments, projects, seminars, smart class and practical sessions are also considered as evaluation are also tools.
- The college strongly believes in continuous evaluation system which is implemented effectively in all laboratories for the practical work. Viva voce is conducted after each experimental work and viva every week.
- Introduction of weekly test for continuous assessment.
- Introduction of seating plan for internal examinations.
- Allotment of inter departmental invigilators during internal examinations to ensure integrity in the examination process.
- Provision of access to students to view answer scripts and challenge the evaluation.
- Question paper of internal examination set by scripts from our institute.
- Specially appointed squads to mentor the conduct of internal exams.

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety**Response:**

Strict transparency is maintained in the internal assessment. The criterion adopted is on the lines directed by the University

Transparency in Evaluation system is ensured by:

- Scheme of evaluation is prepared and provided for reference to students.
- Making evaluated internal exam answer scripts available to the students.

- If any revaluation is required it will be permitted.
- Adhering to the approved scheme of evaluation
- Verification of posted marks for correct entry by a scrutinizer.
- Publishing results only after obtaining approval from controller of examinations.
- Permitting students to apply for revaluation.
- Evaluation only on the premises of the institute.
- Collection of evaluated answer scripts within 3 days from the date of examination.

In addition to ensuring the holistic development and assessment of the students, the following initiatives are taken:

- Assessment of the presentation skills of the students through seminars.
- Overall communication skills assessment through comprehensive viva, lab internal exams will be conducted two times per semester.
- Improvement of application skills of the students through mini projects.

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

The college has the redressal cell for grievances with reference to internal evaluation. The cell consists of principal, HOD, one faculty nominee, two student nominees. The student can apply to the cell for any anomaly in his evaluation of paper. The cell conducts a meet and calls students and hears his/her say and gives the appropriate decision which is binding on all.

The redressal of grievances regarding evaluation in both internal assessment and university examination is through the following process.

At the institute level:

- The answer scripts of internal examinations are given to the students after evaluation for their review and if corrections needed it will be permitted.
- If a student is not satisfied with the marks awarded in any course/ laboratory after the initial review, he/she may represent the same to the Director/Principal through the HOD concerned. All such representations are taken positively and reassessment will be made by another teacher if necessary.
- The internal marks are displayed on exam section notice board. If any discrepancy is noticed the concerned teacher will rectify and the necessary corrections will be made.

At University level:

- The student may apply for a recounting of the marks where in the totaling of the marks will only be checked. Within 15 days of declaration of results by paying the prescribed fee to the university.
- The student is entitled to apply for revaluation in theory courses by paying a prescribed fee to the university. Within 15 days of declaration of results.
- The student is also eligible to apply for a challenge revaluation of theory courses by paying the

prescribed fee to the University.

- The university will take up all such applications and reevaluate/recount the scripts by competent subject teachers.

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

The Institution adheres the JNTUH academic calendar and following things will be implemented.

- Academic calendars, lesson plans and course files for all courses are shared in advance with students to help them prepare for a given semester.
- Along with academic calendar our institute will prepare the institution semester calendar including date of guest lecture, seminars, Technical fest, cultural fest, workshops, innovative projects schedule, and weekly test schedules.
- Remedial classes, special classes will be conducted within stipulated time of JNTUH academic calendar.

As per the JNTUH academic calendar mid exams, lab internal and external exams will be conducted.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

PO.1.Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO.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.

PO.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.

PO.4. 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.

PO.5. 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.

PO.6. 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.

PO.7. 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.

PO.8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO.9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO.10. 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.

PO.11. 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.

PO.12. 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.

PSO'S

PSO1: Design, implement, test and evaluate a computer system, component, or algorithm to meet desired needs and to solve a computational problem.

PSO2: Ability to analyze, design and implement hardware and software components.

COURSE OUTCOMES OF ALL THE YEARS:

II-I OUTCOMES

Course	MATHEMATICS - 4	
M4.CO1	Analyze the complex functions with reference to their analyticity, integration using Cauchy's integ	
M4.CO2	Find the Taylor's and Laurent's series of complex functions	
M4.CO3	The bilinear transformation	
M4.CO4	Express any periodic function in term of sines and cosines	
M4.CO5	Express a non- periodic function as integral representation	
M4.CO6	Analyze one dimensional wave and heat equation	

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

The assessment of course outcome is done based on examinations conducted:

- Mid exam
- Laboratory exam
- Projects
- University examinations

The course outcome for all theory courses is assessed based on target criterion set

Step1: AIET collected the exam marks from Exam branch.

Internal – sample form and University Exam – Sample form

are shown after the procedure.

Step 2: One Sample excel sheet was developed internally for assessments.

Step 3: Copied the exam results to the developed excel sheet & calculated assessment from 1st internal exam; 2nd internal exam and university. From assessment – average Mark, % average mark and CO attainments.

The assessment of course outcome is done based on examinations conducted

- Mid Exam
- Laboratory Exam
- Projects
- University Examinations

The Course outcome for all theory courses is assessed based on target criterion set.

The Weightages are given for Internal Examinations & University Examinations. The overall attainment of the course outcome is calculated by obtaining weighted average.

Projects Work & Laboratory courses of assessed through Rubrics. Performance indicators are described in Rubrics to assess the course outcome.

Sample CO Attainment calculations of **Internal Examinations** (II year 1st Semester) (2014-15)

ROLL NO	EC	EM-I	EMF	EDC	FMHM	M-III	EDC LAB	FMHM LAB
13Q61A0201	18	18	22	19	21	20	19	17
13Q61A0202	17	17	22	18	21	20	20	22
-----	-----	-----	-----	-----	-----	-----	-----	-----
14Q65A0221	23	24	20	19	20	17	18	19
AVERAGE	19.5	19.8	20.0	17.1	21.0	19.7	18.9	20.5
AVERAGE %	78.0%	79.1%	79.9%	68.6%	84.2%	78.9%	75.7%	82.1%
CO	3	3	3	2	3	3	3	3

Sample CO Attainment calculations of **University Examinations** (II year 1st Semester) (2014-15)

ROLL NO	EC	EM-I	EMF	EDC	FMHM	M-III	EDC LAB	FMHM LAB
13Q61A0201	11	27	27	42	26	40	46	42
13Q61A0202	13	31	32	38	26	17	35	46
-----	-----	-----	-----	-----	-----	-----	-----	-----
AVERAGE	19.2	26.8	24.7	32.8	26.4	30.9	43.1	44.8
AVERAGE %	25.5%	35.8%	32.9%	43.7%	35.3%	41.2%	86.1%	89.6%
CO ATTAINMENT	1	1	1	2	1	2	3	3

2.6.3 Average pass percentage of Students**Response:** 82.07

2.6.3.1 Total number of final year students who passed the university examination

Response: 2032

2.6.3.2 Total number of final year students who appeared for the examination

Response: 2476

File Description	Document
Institutional data in prescribed format	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:**

File Description	Document
Database of all currently enrolled students	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years

Response: 44.03

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
1.8	15.6	20.5	3.99	2.14

File Description	Document
List of project and grant details	View Document

3.1.2 Percentage of teachers recognised as research guides at present

Response: 1.44

3.1.2.1 Number of teachers recognised as research guides

Response: 3

File Description	Document
Institutional data in prescribed format	View Document

3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years

Response: 0.64

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 64

File Description	Document
List of research projects and funding details	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Incubation Center

Entrepreneurship in India is on the verge of explosive growth. Angel investors, venture capital, media, startup clubs, service providers, mentors and training companies are going to grow. And one important cog in the wheel is the incubator - the place where startups are born. When a baby is born, he/she is kept in the incubator for first few hours and maybe days - this gives them a chance to adjust to outside environment, and grow stronger before they face the outside world. In a similar way, a startup is incubated in Incubation Center, which gives them a chance to bring their business in shape, before they reach out to the world.

The growth path of IT industry in Telangana and more specifically in Hyderabad is only looking better and wider. After witnessing phenomenal growth in last two decades, IT continues to grow its share both in revenue and job creation, better than any other industry in Telangana and any other state in IT sector. Department of Computer Science Engineering, Government of Telangana plans to double the job creation by IT by 2020.

The following 10 projects are selected in Batch 1

Name of the Project

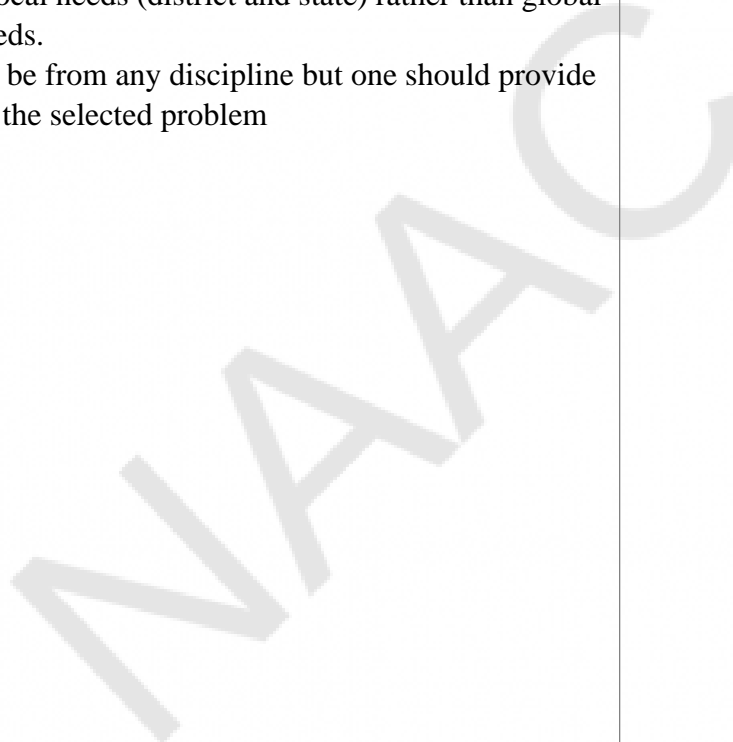
- | | |
|---|--|
| 01 Smart Integrated Home or Industry | |
| 02 Human Interactive 3D Display System | |
| 03 Swarm Source | |
| 04 Smart Tracker | |
| 05 Mobile-Value Added Services to Citizens | |
| 06 Smart Meter | |
| 07 Techno Bike - Technically Smart | |
| 08 Indoor Navigation using smartphone sensors | |

09 Cruise Alert System

10 Brain Computer Interface for Disabled

Sailent Features

- To encourage Entrepreneurship and innovation
- The center will incubate up to 10 projects each year
- Each project will be executed by a team of entrepreneurs (students or alumni)
- Each project will get a funding of upto Rs. 3 lacs
- The program will cater to the projects that solve problems and find solution to local needs (district and state) rather than global problems and needs.
- The problem can be from any discipline but one should provide an IT solution to the selected problem



3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 105

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	35	24	34	2

File Description	Document
List of workshops/seminars during the last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research	
Response: Yes	
File Description	Document
Institutional data in prescribed format	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards	
Response: Yes	
File Description	Document
List of Awardees and Award details	View Document

3.3.3 Number of Ph.D.s awarded per teacher during the last five years	
Response: 1.33	
3.3.3.1 How many Ph.Ds awarded within last five years	
Response: 4	
File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years				
Response: 0.19				
3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years				
2016-17	2015-16	2014-15	2013-14	2012-13
65	42	22	28	13

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document

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

Response: 0.07

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

2016-17	2015-16	2014-15	2013-14	2012-13
33	8	11	1	7

File Description	Document
List books and chapters in edited volumes / books published	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

Avanthi institute of Engineering & Technology is actively involved in extension activities in the adjacent villages. Some of the activities during the last five years are listed below:

- A free skill development training program was introduced. The objective of this program is to train and educate unemployed youth to earn a livelihood.
- One day sensitization program was organized by the school of humanities and social sciences on participatory photography among the various community members of nearby villages. The purpose of this activity was to exploit the accessibility of photography where community members take pictures of them.

- The women empowerment cell of the department of CSE has organized one-day training by giving a one-day hands-on experience on “Basic Computer Fundamentals” to women in November 2015.
- The primary objective was to carry out a drive towards social commitment by providing basic computer literacy to school teachers in remote areas so as to make them enable to use computers and related technology efficiently.
- All streams of Engineering departments organized an event on green world to create awareness about environment on the occasion of world earth day. The college hosted a tree plantation drive in the surrounding community.
- A program was started which was mainly aimed at providing the children with tutorials in subjects like Mathematics, Science, Social Sciences and English, besides taking care of their growth and developmental needs. which will be useful further as adolescents in a climate of rapidly changing situations and often hostile environments.

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 5

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

2016-17	2015-16	2014-15	2013-14	2012-13
2	1	1	1	0

File Description	Document
Number of awards for extension activities in last 5 years	View Document

3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years

Response: 40

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

2016-17	2015-16	2014-15	2013-14	2012-13
10	9	8	6	7

File Description	Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 79.41

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1400	1693	1752	1490	1536

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 36

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job

training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
6	9	9	11	1

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document

3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 33

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

2016-17	2015-16	2014-15	2013-14	2012-13
10	11	8	3	1

File Description	Document
Details of functional MoUs with institutions of national, international importance, other universities etc. during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The institution has developed good infrastructure like Internet with Wi-Fi, Library with reading room, Well Equipped Laboratories, Canteen, Transport Facility, open Auditorium, Computer Center, Playgrounds, Boys & Girls hostel on the campus.

The details of physical infrastructure of the college are given in the following table.

S.NO	Department	Class rooms	Tutorial rooms	Faculty rooms	Drawing halls	Workshop	Laboratories
1	CSE Department	6	1	3			11
2	ECE Department	9	3	2	1	1	13
3	MEC Department	9	3	2	1	1	11
4	EEE Department	4	1	1			8
5	MBA Department	5	1	1			1
6	M.Tech	6		3			6
	TOTAL	39	9	12	2	2	50

A new seminar hall is being constructed which can be utilized by all the departments. In case of emergency a first aid cum sick room and a girl's common room is also provided in Main-block.

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

Response:

The institute considers co & extra-curricular activities as integral to the holistic development of the students. So the institution has a definite policy and plan of action as below:

- 50% of the students to participate in at least one activity in a given year.
- The institute facilitates the participation through provision of attendance, conduct of special classes to cover the syllabus, etc.
- Financial support is provided in the form of TA and DA.
- Coaching/mentoring to be provided by professionals

Following are the list of facility available in college

SI.NO	Name of the facility	Quantity	Area	User rate
1.	Table tennis-	2Nos	2.74×1.525 m	2X4=8
1.	Carroms	4Nos	-----	4X4=16
1.	Chess	o	-----	5X2=10
1.	Suttle badminton-UC	1Nos	44 ×20 Feet	1x4=4
1.	Cricket	1Nos	75 Yards	15+15=30
1.	Foot ball	1Nos	100×50 Yards	15+15=30
1.	Basketball	1Nos	28×15 m	1x10=10
1.	Volleyball	6Nos	18×9 m	5x20=100
1.	Throw ball	1Nos	18.30×12.20 m	2x20=40
1.	Kho-Kho	1Nos	29×16 m	12+12=24
1.	Kabaddhi	2Nos	12.50×10 m	2x(10+10)=
1.	Tennicoit	3Nos	12.20×5.5 m	3x4=12
1.	Athletics Track-1Nos	4 lines	400 m	70

Yoga Centre :

A Yoga Centre was established in Avanthi institute of technology and science campus from beginning. To run the activities of the Yoga Centre, the college administration has provided the required staff, accommodation and equipment.

Few extension lectures were arranged by the Yoga Centre for the benefit of the staff and the students of the college. Some eminent personalities in the Yoga field have delivered the extension lectures.

The college has allocated yearly budget of Rs. 50,000/- for contingency and maintenance of Yoga Centre. These funds are used for conducting the extension lectures, National Seminars as well as for the maintenance of the centre. The Staff of Yoga Centre has been working with utmost commitment and dedication to spread the awareness of Yoga and its application to the staff and students of the university as well as the general public of the society.

Strategies:

- Sports and Games Committee, Cultural committees are formulated to monitor and ensure participation of all students in extracurricular and co-curricular activities.
- Information regarding various events, venues, deadlines is centrally collected and regularly communicated to all the students.
- Encourages participation in inter collegiate tournaments conducted in Cricket, Volleyball, Basketball, Tennis, Table-Tennis, Athletics etc. by providing special coaching facilities.
- Presents merit certificates and mementoes to winners and runners for boys & girls at Institute Annual Sports Day celebrations.

In addition to the above, in order to promote student participation the institute provides the following support:

a) Additional academic support, flexibility in examinations:-

- Meritorious students are encouraged by providing cash awards.
- Since the institute follows the examination time table of the affiliating university, there is no scope for deviation.

b) Special dietary requirements, sports uniform and materials:-

- The institute provides sports uniform to all the students participating in inter-collegiate/inter university events besides providing them with dietary supplements.
- Every academic year we purchase new costumes, props, stage, audio visual equipment and other specialized equipment for cultural events such as drama, classical dance.

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 54.55

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 24

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 25.93

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
66.1	64.9	277.8	119.7	236.9

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document

4.2 Library as a Learning Resource

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

Response:

The ezLIB is to build a next generation Digital Library system and to improve and streamline the library operations in a more effective and efficient manner. The ezLIB is the automation of the complete library system that can lend books, CD's, Journals, and Magazines to the Account holders in the organization.

The ezLIB also consists of the Flexi reports generate for the librarian to find the number of books and cost of books (branch wise and category wise). It also generates the bill details whenever needed. It also provides facility to mail the vendors about the books that are to be purchased. It also provides the pie-chart representation of the reports for ease.

Also includes modules for creating a poll for selection of new books to be purchased. This is done by the ezLIB Administrator using create polls module. Account holders can also suggest books apart for the books that are kept for poll and include self developing modules for new categories that are added, Barcode implementation, Daily Alerts for Belated Magazines.

The ezLIB provides the modules for Account holders to search, reserve and rating for the books. It

provides efficient searching for the books by the providing the advanced searching options like search by author, title, edition and call number. The Account holders can place a request for the book. Data Entry Operators can enter the information about the Books/CDs/journals/Magazines, Account holders' information and can also use the search module.

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

SL. NO	Name of the Book/ Manuscript	Name of the Publisher	Name of the Author	Nu Co
1	HAND BOOK OF ELECTRONICS	PRAGATHI PRAKASAM	PP GUPTA , G.S MATIK	1
2	TORSTEEL DESIGN HAND BOOK	NEW DELHI: TMH,	K.T.S IYENGAR, VISWANATHA	C.S4
3	THE XML HAND BOOK	PEARSON EDUCATION,	CHARLES F.GOLD FARB3 PAUL PRESSCOD	
4	ORACLE SQL AND PL/SQL HAND BOOK	PEARSON EDUCATION,	JOHN ADOLPH PALINSKI	2
5	ORACLE 9I FOR WINDOWS HAND BOOK	LONDON: TMH,	ANAND ADKOLI1 RAMAVELPURI	
6	CAMBRIDE INTRODUCTIONAL DICTIONARY OF IODINE	TMH,NEW DELHI	CAMBRIDGE PRESS	2
7	ELGLISH PROGRAMMING DICTIONARY	TMH ,NEW DELHI	DANIEL JOHNES	1
8	ELECTRICAL ENGINEERING	NEW AGE, 2000	SIEMENS,	3

	HAND BOOK		AKKENTGASCHAFT	
9	PC HARDWARE AND A+ HAND BOOK	OXFORD IND, 2005	KATE J.CHASE	5
10	OXFORD ADVANCED LEARNER'S DICTIONARY	WORLD BEST SELLER, 2005	BRAIN W.KORNIGHAN	2
11	CAMBRIDGE ADVANCED: LEARNER'S DICTIONARY	CAMBRIDGE UNIVERSITY, 2003	BRAIN W.KORNIGHAN	2
12	HAND BOOK OF WIRELESS NETWORKS AND MOBILE COMPUTING	WILEY PUB, 2008	IVANSTO J.MENOVIE	15
13	MICROSOFT COMPUTER: DICTIONARY	PHI PUB, 2006	MICROSOFT	1
14	DICTIONARY OF ELECTRONICS	: AITBS PUB, 2007	DARSHNA SINGH	2
15	DICTIONARY OF FINANCE	: KS-PAPER BAKER, 2005	OLENA.Y.KORCHAKA	1
16	DICTIONARY OF TECHNICAL TERMS	: KS-PAPER BAKER, 2008	G.WHITMORE	1
17	DICTIONARY OF NANOTECHNOLOGY	: KS-PAPER BAKER, 2008	G.WHITMORE	1
18	DICTIONARY OF JOURNALISM	: KS-PAPER BAKER, 2008	M.SAREEN	1
19	HAND BOOK OF ELECTRONICS	MEERUT: PRAGATHI PRAKASHAN, 2004	GUPTA AND KUMAR	3
20	THE MATLAB HAND BOOK	: MARUTHI SANGAMEVA BOOKS, 1998	PAST-ENANDER	1
21	DICTIONARY OF CHEMISTRY	HYD: ATTBS, 2008	DEEPAK ARORA	1
22	DICTIONARY OF PHYSICS	HYD: KS-PAPER BAKER, 2006	SHIVA SINGH	1

23	THE ENCYCLOPAEDIA DICTIONARY OF MARKETING	NEW DELHI: RESPO. BOOK, 2006	K. MOHAMMED KHAN & MD. NAVEED KHAN	1
24	HAND BOOK OF ENGLISH GRAMMER AND USAGE	DELHI: MC GRAW HILL, 2009	MARK LESTER & LERRY BEASON	3
25	A HAND BOOK ON SPSS FOR RESEARCH WORK	DELHI: HPH PUB, 2011	ANIL KUMAR MISHRA	1
26	PRACTICAL HAND BOOK OF DEWEY DECIMAL CLARIFICATION	DELHI: ATLANTIC, 2006	CK. SHARMA	1
27	DICTIONARY PRONOUNCING	ENGLISH NEW DELHI: JOHN WILLEY, 2012	CAMBRIDGE	1
28	OXFORD FIRST LEARNERS FRENCH DICTIONARY	NEW DELHI: OXFORD PUBLICATION, 2007	EDITOR - MICHAEL JAMES	1
29	OXFORD LEARNERS GERMAN DICTIONARY	NEW DELHI: OXFORD UNIVERSITY, 2012	EDITORS - VALE XIC GRUNDY	1
30	ILLUSTRATED FAMILY ENCYCLOPEDIA OVER 12000 ILLUSTRATE PHOTOGRAPH 500 FACT-FILLED ARTICLES	DORLING KINGERSHEE LTD., LONDON, A PENGUIN COMPANY, 1997 -2005	EDITED BY JAYNE PERSONS, GILLIAN SHOW	1
31	ILLUSTRATED OXFORD DICTIONARY 187,000 DEFINITIONS 7 ENTRIES 4500 ILLUSTRATIONS	DORLING KINGERSHEE LTD., LONDON, A PENGUIN COMPANY, 1998 -2007	EDITED BY OXFORD UNIVERSITY	1
32	NATIONAL GEOGRAPHICAL WORLD RECORDS ANSWER BOOK 1000 FAST FACT ABOUT OUR	NATIONAL GEOGRAPHICS WASHINGTON, 1998-2007	EDITED BY KATHRYN THRONTON	1

WORLD

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

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

Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.

Document[View Document](#)**4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)****Response:** 10.12**4.2.4.1 Annual expenditure for purchase of books and journals year wise during the last five years (INR in Lakhs)**

2016-17	2015-16	2014-15	2013-14	2012-13
7.3	10.69	12.34	11.77	8.49

File Description

Details of annual expenditure for purchase of books and journals during the last five years

Document[View Document](#)

4.2.5 Availability of remote access to e-resources of the library**Response:** Yes

File Description	Document
Details of remote access to e-resources of the library	View Document

4.2.6 Percentage per day usage of library by teachers and students**Response:** 26.23**4.2.6.1 Average number of teachers and students using library per day over last one year**

Response: 486

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure**4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

- TheAvanthi Institute of Engineering and Technology is running with an internet facility of 100 Mbps dedicated line. Apart from this we have 10 Mbps internet facility provided by vinavi. Every classroom and staff room is internet connected.
- Each classroom is equipped with ICT facilities like LCD Projector, LAN Connectivity to enhance teaching- learning process.
- Our Institute has a total of 496 computer systems serving 1600 students with a ratio of 1: 3.4
- We have upgraded interent facility from 15 Mbps to 100 Mbps. (Proofs enclosed)
- Digital library can be accessed from any system within the institute.
- Every nook and corner of the campus is provided with Wi-Fi facility.
- We have digital library for browsing technical content like NPTEL Courses, DELNET, Online certification programs.
- We are using Library Management System New Gen lib Softwaremanage all library operations.
- Each Department is provided with sufficient number of Printers and Scanners. (List is enclosed department wise)
- Central Computing Facility is provided with 100 systems all connected in LAN and with printer facility.
- Recently we have upgraded all the LAN cables CAT-5.
- We have recently purchased a Router (Mikrotik 1100 router) to distribute bandwidth among all departments of the institute.
- All the labs and classrooms have power backup facility.
- We have implemented faculty bio-metric attendance system way before JNTUH has made it mandatory.

- We have installed CCTV cameras for 24x7 campus surveillance.
- Most of the faculty members are provided with a desktop system with internet facility.
- We are using SMS facility to inform student performance to their parents.
- We are also providing consultancy services by conducting competitive online exams like TSPSC, Bank examinations etc.

4.3.2 Student - Computer ratio

Response: 3.44

File Description	Document
Student - Computer ratio	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

Response: >=50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 52.46

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

2016-17	2015-16	2014-15	2013-14	2012-13
199.11	321.61	258.45	341.58	271.73

File Description**Document**

Details about assigned budget and expenditure on physical facilities and academic facilities

[View Document](#)

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:

To maintain and utilize physical, academic and support facilities like laboratory, library, sports building, computers, classrooms etc., we have appointed below said number of employees in our institution.

S.No	Category	No.of persons
1	Project Engineer	1
2	Site Supervisor	1
3	Maintenance Engineer	1
4	Electrical Engineer	1
5	Electrician	2
6	Plumber	2
7	Carpenter	1
8	Helper-Physical facility	1
9	Operator-Mineral water plant	2
10	Stores In-Charge	1
11	Housekeeping-Supervisor	1
12	Housekeeping-Asst.Supervisor	1
13	Sweepers	15 F
14	Gardener	1
15	Chief Security Officer	1
16	Security Officer	1
17	Security Guards	10

18	Water man	1
19	Attender	14
20	Helper-Sports	1
21	Lab asst and programmer	22

Periodical maintenance operations are taken up to provide comfortable and convenient utilization of infrastructure by the stakeholders.

To maintain the clean environment in the college and its premises, necessary measures are taken.

The premises of college is under surveillance using CC cameras.

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 the last five years

Response: 62.55

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

2016-17	2015-16	2014-15	2013-14	2012-13
1143	1325	1327	1172	1222

File Description

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

Document

[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 21.9

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
496	475	448	389	350

File Description

Number of students benefited by scholarships and freeships besides government schemes in last 5 years

Document

[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling

3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 17.41

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

2016-17	2015-16	2014-15	2013-14	2012-13
431	511	305	240	237

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 1.31

5.1.5.1 Number of students attending VET year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
21	20	23	27	37

File Description	Document
Details of the students benefitted by VET	View Document

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

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

Response: 23.26

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

2016-17	2015-16	2014-15	2013-14	2012-13
147	126	123	77	92

File Description	Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 40.39

5.2.2.1 Number of outgoing students progressing to higher education

Response: 166

File Description	Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)

Response: 39.7

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
28	66	57	57	24

5.2.3.2 Number of students who have appeared for the exams year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
79	158	129	123	78

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

5.3 Student Participation and Activities

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

Response: 133

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

2016-17	2015-16	2014-15	2013-14	2012-13
19	22	31	32	29

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

College creates a platform for the active participation of the students in the various academic & administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations and execution skills.

Its selection, constitution, activities and funding:

- Each council has a representative council, which is called Class Committee and includes student members too.
- The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class.
- The composition of student members is of one topper, one average and one slow learner (the one who has more integrity with other students) of each section are nominated as class representatives, for all the sections from I Year to Final Year.
- The Student Council helps students share ideas, interests, and concerns with lecturers and principal. They often also help raise funds for -wide activities, including social events, community projects, helping people in need and college reform.
- Various programs like paper presentations, workshops and seminars are organized by these bodies every year.

We have formed 6 student committees such as:

Library committee

Literacy & Cultural Committee

Department Exam Committee

College Academic committee

Discipline & Anti-Ragging Committee

Sports & Games Committee

Health & Public Awareness Committee

The funding for various activities of the internal college bodies is provided by the College Management.

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 13.6

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
15	15	12	13	13

File Description	Document
Number of sports and cultural activities / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The Avanthi Alumni Association has a robust mechanism. It acts as a bridge between the former students, current students and authorities. The institute regularly interacts with the Avanthi Alumni Association (AAA) and through it also organizes Alumni meet ones in a year and collects the addresses of the Employers through the feedback given by the Alumni.

Events:

- Technical Alumni Meet
- Adoption of poor students
- Blood Donation Camp
- Donation of Clothes and Items to needy
- Dinner gathering

- Tea Meet

Creativity contests for students

5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

Response: 1 Lakh - 3 Lakhs

File Description	Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

Glorify the vision and mission of the institution and catalogue on how the mission statement defines the institution's varied approaches in terms to address the needs of the society, the students seeks to serve, institution's ethics and value orientation, vision for the future etc.,

VISION

To develop highly skilled professionals with ethics & human values.

MISSION

To provide a positive and professional learning environment where all students are inspired to strive for excellence in order to achieve their potential as dignified and competent engineers, technology innovators, managers and leaders in global society through a cohesive network for the parents, students, college staff and industry.

Avanthi Institute of Engineering and Technology (AIET) is committed to improve "core competence", "communication skills" and "ethical balance of mind" in the students and to make them the most sought after technocrats who would significantly contribute to the evolution of such knowledge based society in our country. The students are exposed to a finest learning experience using theory, practical exercises, project assignments, case studies, industry expert interactions, debates and group discussions that multiplies the quality of inputs to the students and hones them to have practical perspective with strong technical expertise. While benchmarking with today's competitive world, our core competencies are titled to quality and innovation by effectively adapting technical skills to the ever emerging future and be the greatest differentiator in achieving their goals faster than even dreamed possible. Our most honoured faculty and management make this happen. Avanthi also empowers the students to get practical exposure to face world class challenges. It enlightens students with advanced technology to meet the competitive world. Avanthi nurtures student's potential and guides them to stronger individuals in building a better society.

Endeavour for truth and Service

- We provide quality education to our students.
- Integrity and transparency are reflected in all the endeavours of the institution; from the Admission process up to the conformant of Degree/Placement and even beyond.
- The institution stands for humanity, for tolerance, for reason, for the adventure of ideas and for the search for truth. For this we create an environment that fosters teamwork, cooperation and mutual

support.

- The Institution believes in the policy of inclusion and promotes the Nation building qualities of equality, justice and fraternity.

Self-Evaluation and Continual Renewal

- The Institution follows a multi level evaluation process to support a continual renewal.
- Self Appraisal by Teaching and Administrative Staff
- Peer Evaluation Process
- Student Evaluation
- Academic Audit
- Stake Holders Feedback
- Management Appraisal

6.1.2 The institution practices decentralization and participative management

Response:

The institution AIET is headed by Avanthi Educational Society consisting of prominent members. The college is directed by well defined quality policy. The Management, the Principal and the Staff work with dedication in enactment of the quality, policies and plans. The principal as the head of the institution bestows a versatile and vital leadership to the system. The Chairman and Secretary regularly interact with faculty to discuss various policy matters and efficient implementation. The governing members meet at regular intervals and discuss vital areas in detail and arrive at the necessary strategies and plans for developing the institution and enhancing the quality of education through a Quality Management System. The Management is committed to ensuring conformity and compliance to international standards.

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

Yes, the institution has a perspective plan for development in line with its vision and mission statements. The institution strongly believes that to attain the goals of the organization as stated, in order to enrich the performance of the students to make them highly skilled, motivated, competitive, employable, and capable citizens with ethics and human values. The institution strives to impart high quality education with individual exposure and professional training to enhance the relevance and quality of UG & PG programmes currently offered. The institution is gradually increasing the proportion of learning methods like problem solving, collaborative learning, team building and innovative learning by providing highly skilled faculty, sophisticated laboratories, workshop facilities and feasible environment to exhort the spirit of profession beyond academic excellence.

The institution encourages continuous improvements in teaching, learning, research and administrative processes to meet the global standards.

The institution follows quality policy developed in accordance with quality guidelines. This policy is deployed through various systems available in the institution, and it is reviewed through pass percentage, research, placements, student performance appraisal system, achievements in co- curricular activities and extra-curricular activities.

These are achieved through

- maintaining continuous quality in teaching and mentoring
- up gradation of qualifications and skills of the faculty/staff members
- providing multiple study options through research emphasis and academic flexibility
- motivating the students to reach the academic excellence

The institution has formulated perspective plans in the following areas

- 1.New infrastructure
- 2.Academic achievements
- 3.New initiatives
- 4.Research & Development

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

The following is the composition of the Governing Body in adherence to the JNTUH rules

S.NO	Governing Body		
1	Smt.M. Gnaneswari	Vice-Chairperson	
2	Mr.M. Nandeeshwar	Vice President	
3	Dr.M. Priyanka	General secretary	
4	Mr.I. Sravan kumar	Managing Director	
5	Dr.D. Jayaprada	Director	
6	Dr. K. Rammohan Reddy	Member, JNTUH Head & Prof Water Resources & JNTUH, Hyd	
7	Dr. K. Premchand	Member, OU	
8	Mr.N. SaiRam	Secretary	
9	Dr.Yousuf Ali	Principal,AIET	
10	T. Kranthi Kumar	Member	
11	Dr.T. Hanuman Chowdary	Member	

Key policy decisions are taken by the members of the governing body which ensures judicious allocation of financial resources, team work and effective coordination through efficient committees. The members of

the governance body have been reposing confidence in faculty/staff members, in order to maintain the excellent track record in curricular, co-curricular activities and extracurricular activities. The Governing Body meetings are held once in six months to reach the short term and long term goals by discussing various key issues and to take prompt and effective decisions.

6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document
Screen shots of user interfaces	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

Administrative setup

The college administrative setup consists of various committees and cells which report to either the principal or respective Member Secretary in order to reach the objectives of the organization smoothly and effectively.

- Anti-ragging Committee
- Women Protection Cell
- SC. ST. Committee
- OBC Cell
- Minority Cell
- Internal Complaints Committee
- College Academic Committee
- Department Academic Committee
- Faculty Development Committee
- Training and Placement Committee

- Finance Committee
- Sports committee
- Cultural Committee
- Library Committee
- Disciplinary Committee
- Grievance & Redressal Cell
- Purchase Committee
- Transport Committee
- Canteen Committee
- Institute Industry Interaction Committee
- Research & Development Committee
- Alumni Committee

File Description	Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

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

Response:

Teaching Staff:

The following incentives help in improving the working ambience and academic acumen of the faculty :

- Additional increments are sanctioned to the deserving faculty to create a culture of commitment and attachment to the institution.
- Hardworking staff and faculty are given cash awards.
- Insurance facility is provided to staff
- Fee concession is given to staff children in the campus school to the extent of 25% to teaching staff and 50% to non-teaching staff.
- Special academic leave for research and PhD work.
- Sponsoring for higher education through QIP
- Incentives for paper publications
- Sponsoring for seminars / workshops etc.
- Contributory EPF facility for the regular staff.
- Free transportation to all employees.
- Maternity leave is provided for woman staff members.
- Earned leave and medical leave is provided is provided for ratified faculty.

Non-teaching staff :

- Education, support – sum of Rs. 10,000 per child per year (Maximum two children)
- Gift for marriage and new born baby

- Diwali Bonus – Rs 500 every year
- Twenty four days Earned leave for every year
- Fee concession for the wards of staff members who secured admission in Avanthi institutions
- Group Medical Insurance
- Monthly Food allowance
- Free Transport

All the Non-teaching staff are availing the above listed benefits.

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: 25.27

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

2016-17	2015-16	2014-15	2013-14	2012-13
74	44	35	36	30

File Description

Document

Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years

[View Document](#)

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: 4.4

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
12	3	2	3	2

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

Response: 18.64

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
49	21	30	40	19

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

Self appraisal form is supplied to all the faculty members and staff members every year by the institute. The faculty and staff members complete and submit the self appraisal form to the HoD. The Performance of the faculty is analyzed through the details provided by them in the self appraisal form. The performance is assessed basing on various parameters such as Examination results, pass percentage, relative position with respect to other neighboring affiliated colleges, scores of students in other competitive exams, Student feedback, Involvement in co-curricular and extracurricular activities, Responsibilities taken in the department, Publications and research work and the development of new and innovative experiments etc., The appraisal committee scrutinizes them and refers to the Principal. Based on the committee report, the faculty members are rewarded/given the appreciation certificates.

The outcome of the review of the performance appraisal reports by the management and the major decisions taken.

- The names of the faculty members who show good performance are recommended to Best Faculty Awards.
- If any Faculty receives an award/ paper published /attended to international conferences, it will be circulated and displayed in the notice board.

- Based on the Performance Appraisal, increments or cash awards are provided to deserved candidates and for the carrier advancement of the staff.
- Positions of some staff are elevated.
- Appreciation letters are given for certain achievements. The achievements are announced to the concerned staff through letters or in staff meetings or college day celebrations.

That evidence of the documents will be shown in criteria 3.3.2.

The following measures are taken by the Institution for attracting and retaining eminent faculty.

Eminent faculty are elevated in their positions .Since the development of good students depends on the quality of teachers, faculty members are given necessary encouragement to improve their competence in various areas. Following benefits are provided:

- Deputing staff regularly for quality improvement programs, Seminars, Conferences, Workshops, summer and winter continuing education courses. For each faculty such opportunity is provided twice in a year.
- Registration fee is born by the institution.
- Structured pay scales are proposed for qualified faculties
- For the deserved candidates i.e. qualification with experience, depending upon needs of the faculty higher salaries are offered
- To attend for the workshops academic leaves are provided. Each faculty is provided with twelve academic leaves per year.
- Providing opportunity to involve in research & developmental activities of their choice in the department and at the Institutional level.
- Identifying teachers with special talents and competence and encouraging them by honoring them with awards, monetary benefits etc.
- Providing the various leave benefits such as:
 - Study Leaves
 - Academic Leaves
 - Extraordinary Leave
 - Maternity Leave
- 11 members of the senior faculty who are encouraged for doing Ph.D.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The Avanthi Institute of Engineering and Technology is having a Qualified Chartered Accountant **M. THIRUMALA RAJU & CO.** as External Auditor and Internal Auditor **Mr. A Praveen Kumar** appointed by the Management. Accounts are audited once in a year and sent to the management for review. A part from this following committees are formed for Internal Auditing purpose. In every financial year the college will conduct internal audit through departmental staff as well as external audit by the statutory Auditors. The internal financial accounting would be completed before 10th of every month considering all the previous month transactions. After completion of the monthly accounts the same accounts would be audited by the internal auditors appointed by the management. While verifying entries, if any mistakes/ short comings identified/noticed the same could be rectified in the same month by the concerned departments. After rectifications if any, the report would be submitted by internal auditors to the Governing Body for approval. The external statutory auditors shall visit the college office twice in a year for vouching audit and submitting the final audit report. After completion, the final statutory audit report shall be submitted to the Governing body for approval in the month of June every year. After approval, the financial accounts, documents could be used for all statutory purposes.

Financial Committee : It approves the Annual Budget of the institute for each financial year and review the utilization of funds of previous year as per budgetary provision. It meets once in a year and twice if required. The draft budget is placed to the finance committee for the approval. All the current year spending is carried out as per provision given in the budget. Periodic reviews are carried out to monitor the utilization of the budget as per the provision given in annual budget. Principal conduct the reviews with the help of chief account officer and Accounts officer a quarterly basis and make sure that the funds are utilized effectively.

Management Committee: Institute level budget is approved by institute Governing Body and management Committee at the end of each financial year

Each department Committee headed by the HOD, senior faculty and lab in charges and prepares the annual budget for each financial year, which contains recurring and non recurring expenditure requirement for all departments for the entire year. . A detailed requirement is submitted to principal. Account officer prepare the institute level requirement and prepare the detailed budget. All the department requirements and institute level requirements are discussed in HODs meeting and finalize the total recurring and nonrecurring budget requirements. The comprehensive budget proposal is placed before the Governing Body and Management committees for final approval. The Audit was completed for the financial year 2016-17. There are no major audit objections. The institute is filing income tax return every year within the stipulated time.

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

Response: 10.98

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

2016-17	2015-16	2014-15	2013-14	2012-13
2.28	2.23	1.53	2.48	2.46

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document

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

Response:

OBJECTIVES:- Ensures growth and development in a planned and phased manner. Takers into account sustainability as a major concern at every level. Tailors every plan to suit the vision and objectives of the Institution. Factors in sourcing and availability of funds and listing the priorities. Make a judicious use of consultants, consultancy and expertise in the planning. Provide for periodic strategic planning for mobilization, allocation and utilization of resources

STRATEGIES:- The Institution should be financially viable from inception. Develop infrastructure through fundraising (Foundations, Individuals. Manage maintenance and operational costs through fees. Parallel models of planning for sustainability for the Institution. Develop an 'alternative model' that relies on infrastructure development through donors and foundations.

THE PROCESS OF PLANNING FOR SUSTAINABILITY:- Strategic Planning Committee & Strategy Retreats. Governing Bodies of Sponsors and of the Institution. For matters relating to Policy. Board of Management of the University for Operational Matters. Board of Management and Academic Council of the Institution for academic matters. Consultants and Collaborators.

STRATEGIES TO DEVELOP ALTERNATE CHANNELS OF FUNDS GENERATION:- Develop an investment plan for the funds at the disposal of the Institution. Maximize returns from use of the infrastructure of the Institution. Maximize opportunities for returns from outsourcing utilities and services. Overlap sustainable clusters (Engineering, Management, Social Work etc.,) with financially unviable clusters. Maximize returns from the land at the disposal of the Institution.

FUNDING RESOURCES:- Ground rules, Sources. Depend mainly on fundraising for capital expenses and infrastructure. Depend on fees for running expenses, maintenance and normal development and expansion. Provisions made for cross subsidy of non-viable but socially relevant courses.

MANAGEMENT OF FINANCE AND INVESTMENTS:- Finance Committee Monitors Internally generated funds. **SRI. M. Srinivasa Rao** Charities monitors fund raising and infrastructure development. Investment Firm handles deposits and securities under advisement. Finance Officer and Development Officer handle day to day transactions. Accounts Officer handles accounts and documentation. Statutory Audit firm handles all accounts and projects.

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:

01. IQAC meeting with various stake holders:

Different committees have been established to support IQAC activities and to maintain and enhance the quality assurance in the institution. In these ways, IQAC contributes in institutionalizing quality assurance process and progress.

IQAC organizes meetings with stake holders like management, staff, non teaching staff, students, alumni, PTA, experts and industrialist. The IQAC discusses to enhance quality assurance in all fields.

02. Enhancement in Quality Assurance, Quality Encouragement and Quality sustenance in all

Some of the quality initiatives by the institutions are highlighted below:

- It has created a Repository of Academic Resources for innovative teaching methods and research contributions in the field of Science, Engineering, Technology and Management.
- Improvement of credibility and image: This initiative has established premier position among all the

stakeholders of the society.

- Improvement of customer satisfaction – One of the quality management principles of the IQAC is to improve customer satisfaction by planning and striving to meet customer requirements. AIET has always striven for improving customer satisfaction.
- Better process integration – AIET has achieved overall process interactions through the process approach of IQAC. This initiative has resulted in improvements in efficiency and effectiveness of academic delivery system.
- Improved evidence based decision making – A management principle of quality assurance of IQAC is the need to use evidence-based decision making. AIET has inculcated this culture among all internal stakeholders.
- Created a continual improvement culture – Continual improvement is another management principle of quality assurance of IQAC. AIET has adopted and integrated this culture to every quality system in the organization for improving processes and organizational output.
- Engagement of employees – AIET Employees are involved in the improvements of the processes they work with, and they are happier and more engaged employees.

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

Response:

1. Review of Teaching Learning Process by IQAC:

- Classroom sessions are made more interactive involving group discussions.
- Courses are designed using world-class master texts.
- Teaching is made more ‘conceptual knowledge’ oriented.
- Tutorial and Laboratory contact hours are increased.

2. Review of the Academic Audit Committee by IQAC:

At the institute level, academic audit is conducted every year. Institute level criteria for the academic audit assessment are decided by the Director and all the Heads of the Departments. Internal academic auditors are faculty from various departments of the college. Under academic audit the points assessed are:

- Quality of Teaching / Learning Processes
- Co-curricular activities
- Student performance in In-SEM and End-SEM examinations

- Placements
- Faculty contributions in research
- Quality of question papers
- Attainment of course outcomes

Heads of the departments take necessary corrective actions as per the assessment.

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 2.6

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	3	2	2	2

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document

6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
e-copies of the accreditations and certifications	View Document

6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

Response:

1. AIET has adopted an effective internal and external quality enhancement mechanism. The Internal academic and administrative processes are monitored continuously and are audited periodically. The University also undergoes external quality audits of its processes by way of external audits, accreditations and inspections by legally constituted controlling bodies. The reports of these bodies form an input to the Internal Quality Assurance processes thus resulting in improvement.

2. Incremental continuous improvement is an ongoing effort in the Institute to improve our systems and processes. The observation given by the external agencies are followed up rigorously till they are closed and further benchmarked for next higher level.

3. Major incremental improvement during the preceding five years are as under:-

- A Department of Research Planning and Statistical Services (RPSS) has been established.
- Accreditations: The Institute has a prestigious national accreditation, NBA.
- Management Review Meeting (MRM) are conducted periodically.
- The Institute has implemented two tier audit system to ensure the effective efficient functioning of processes and continuous improvement. This is done at following three stages:
 - Institutional Self Audit by IQAC.
 - Internal audit by QAE, through team of IQAC members from other institutions.
- The IQAC ensures that there is availability of faculty and other resources throughout the academic years through annual planning process.
- The central library was completed with all facilities and resources in December 2012.
- Alumni Participation: Increased interaction with alumni by giving them representations on various committees and boards and in the convocation procession. Organizing alumni meets. Inviting them as guest speakers during Orientation, Classroom Lectures, Youth Festivals, MentorMentee Meeting etc.
- The Institute has increased its research profile and has created Directories of Research in every Domain to promote the research culture among faculties.
- Establishing of Avanthi Centre for Entrepreneurship Development and start up in upcoming areas.

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 7

7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	2	1	1	1

File Description

List of gender equity promotion programs organized by the institution

Document

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

a) Safety and Social Security:

Institute is having a special women protection cell which will take care about all issues related to female students and female faculty.

This cell specially concern about safety of the women's in the campus and in the buses. Apart from safety concern the cell will also conduct various social security programs in regular intervals to provide the awareness about gender equity in the society.

The institution has Internal Complaints Committee for Prevention of Sexual harassment of Women, which looks after the issues pertaining to women in particular. Internal Complaints Committee is capable of dealing the cases (if any) very confidently with its team of Principal, functional head of the committee and a few women faculty members. The committee also conducts different activities to encourage women to fight against any kind of injustice resulting from gender bias

b) Counselling:

One of the best practice in the organization is counseling system. Counselling system is organized by Head of the department, Department Counseling in charge and counsellors. For any sensitive issues related to girls apart from counselor women protection cell will concern about those issues and they will take necessary actions if required .

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 30

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 14034

7.1.3.2 Total annual power requirement (in KWH)

Response: 46781

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 20.9

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 1230

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 5884

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document

7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

Response:

Waste: Any unwanted or undesirable material, solid, liquid or gaseous occurring in the environment, responsible for degradation of environment.

Types of waste:

Solid Waste: It includes Municipal solid waste, e-waste, industrial and commercial waste, construction and demolition waste, bulley waste, thermal waste, nuclear waste, biomedical waste, hazardous waste which are released into the environment from different sources of waste generation.

Different types of waste generated in the college campus is disposed in a proper and scientific manner with the help of certain private agencies that who collect the waste and use it for recycling or generation of electricity.

Solid Waste management

1. Wastes created are reused to be valuable as normal compost
2. Canteen squander is given for creature bolstering focuses
3. In grounds, as an approach, utilization of plastic is entirely denied.

Liquid Waste Management

1. A mineral water plant is introduced which gives safe drinking water to all in the grounds.
2. Rain water reaping has been actualized inside the grounds.

E-waste management

- 1.. E- waste created is utilized further for specialized instruction reason for show and study.
2. E-waste to Re-building: Product Development Lab-Development of multi-disciplinary designing items/applications by including understudies from various branches.
3. Wherever re-building is esteemed hazardous, the e-squander is arranged according to the standards advanced by the producers and furthermore the

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Rain water harvesting is a scientific technique towards conservation of rain water especially during rainy

season and involves construction of certain scientific rainwater harvesting structures such as Recharge pits, percolation tanks, check dams, nala bunds etc.

These scientific RWH structures should be designed in areas of acute scarcity of water. The methods of R.W.H include:

1. Diversion of rain water accumulated on the roof top of a building through pipes into recharge pits/percolation tanks designed at ground level just before rainy season.
2. Design of small check dams and nala bunds in some specific areas to prevent wastage of water and conservation of water. Recharge pits and percolation tanks have also been designed in the college campus for conservation of rain water.

To limit the wastage of water assets and to enhance the ground water level, the rain water is coordinated into the water pit situated in the grounds

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

The foundation firmly feels that the making a quiet situation is one of the fundamental components during the time spent learning. The developing normal perils are making new medical issues accordingly obliging the understudies from viable learning. The following activities have been taken up by the establishment over the most recent four years basing on the proposals of green review board of trustees to make grounds eco-accommodating:

- Massive tree estate making excellent roads on grounds.
- **Haritha Haram** planted plants across the campus.
- Promoting the soul of '**Swacch Bharat**' on grounds through including the understudies and the staff in '**Swacch**' program.
- College campus is lush-green campus with a large number of plantations. The campus is also a plastic free campus and mostly paper cups and other alternative material is used instead of plastics.
- The students also use bi-cycles within the campus within 1 km radius. The campus is also involved in use of renewable energy in the form of solar panels, LED's for conservation of energy.

Green Practices followed by both the faculty members and the students in the campus are

Bicycles:

The faculty members and students residing nearby are encouraged to come by bicycles. Thus we prevent the emission of carbon dioxide in the campus

Public Transport :

The institution is located beside four lane road connecting Kadapa and Pulivendula. So we encourage our faculty members and students to use the public transport for safety, security and fuel conservation.

Pedestrians Friendly Roads:

The campus has wide, well maintained black top roads, covering every nook and corner of it.

Plastic free campus:

Use of plastic bags and cups are discouraged in the campus. Even in the canteen usage of steel plates/ leaf plates and steel cups or paper cups are mandatory.

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.36

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
2.64	1.72	1.56	1.4	1.2

File Description

Document

Details of expenditure on green initiatives and waste management during the last five years

[View Document](#)

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

- 1.Physical facilities**
- 2.Provision for lift**
- 3.Ramp / Rails**
- 4.Braille Software/facilities**
- 5.Rest Rooms**
- 6.Scribes for examination**
- 7.Special skill development for differently abled students**
- 8.Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: D. At least 2 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 17

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	4	3	5	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 17

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	4	3	5	1

File Description	Document
Details of initiatives taken to engage with local community during the last five years	View Document

<p>7.1.12 Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff</p> <p>Response: Yes</p>

<p>7.1.13 Display of core values in the institution and on its website</p> <p>Response: Yes</p>

<p>7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations</p> <p>Response: Yes</p>
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File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document

<p>7.1.15 The institution offers a course on Human Values and professional ethics</p> <p>Response: Yes</p>
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<p>7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions</p> <p>Response: Yes</p>

<p>7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years</p> <p>Response: 5</p>
--

File Description	Document
List of activities conducted for promotion of universal values	View Document

<p>7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities</p>

Response:

With a view to fostering the spirit of oneness and inculcating moral values among the students, our Institution constantly encourages in celebrating all National festivals, birth and death anniversaries of great men and important days. Following are the important festivals and occasions that we celebrate in the campus.

- Republic Day
- Independence Day
- Gandhi Jayanthi
- Ambedkar Jayanthi
- Srinivasa Ramanujan Jayanthi
- Sir Mokshagundam Visweswaraya Jayanthi
- Teachers Day
- Engineers Day
- Women's Day
- Yoga Day
- Ambedkar Vardhanthi

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions**Response:****Financial Transparency:**

Before commencement of Academic Year, budget proposals were prepared by each department. Then it is brought for discussion in Governing Body Meeting to get approval. Budget is released as per the approval of the Governing Body Meeting, to all the departments. Every department in the institution will procure new things and improve the existing facilities

Academic Transparency:

Academic decisions have been taken in the respective departments relating to subject allocation, arranging guest lectures, organising seminars, and workshops.

- Conducting counselling for students by faculty advisors twice in a semester.
- Internal assessment of the students is evaluated in a centralized manner. The answered scripts are given to students after evaluation for the verification. Finally, marks will be sent to their parents /guardians.

Administrative Transparency:

There exists defined procedures for administrative activities such as – code of handbook for students and staff, code of ethics, centre for research and innovation policy, research promotion policy, consultancy promotion policy ...etc

Auxiliary Functions:

For smooth functioning of the institution, different committees are formed to carry out auxiliary functions.

The following committees are in function.

1. Disciplinary committee
2. Anti-Ragging committee
3. Transport committee
4. News letter / Magazine / Brochure / Calendar committee
5. Cultural committee
6. Sports committee
7. Time table committee
8. Alumni council committee
9. Central library committee
10. Maintenance committee
11. Training & Placement committee
12. Affiliation and accreditation committee
13. Community development committee
14. Public relations committee
15. Professional students chapter
16. Research and development committee
17. Entrepreneur development cell
18. Internal Quality and Assurance Cell (IQAC)
19. Grievances redressal committee

20.Government schemes committee

21.Students club

22.SC / ST Cell

23.OBC Cell,

24.Minority Cell

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Best Practice I

1. Title of the Practice:

Campus Recruitment Training (CRT) and Communications Skills Trainings

1. Goal

To improve the quality of career choices for students with prominent institutions for good placements & universities for higher education.

1. The Context

Students entering the institute typically have an average / less average academic record like SSC, 10+2 and EAMCET. Many students are from rural / semi-urban backgrounds, their communication skills, worldly exposure and overall faith challenge. Consequently, the general estimates of students and parents are completed by completing the programs and entering higher studies in a placement or average academic institution in a service sector.

In this case, the goal is to provide employment to such students in set-out world-renowned institutions to achieve that they cannot predict the past, which is not only students from the Nations's main companies.

1. The Practice

To achieve such success, the company realizes that spaces in students' skills can be addressed in different fields:

- Technical skills to international standards
- Communication skills are the best

- Have a positive attitude and pleasant personality

For the above mentioned, the institution has set up the Training / Supplementary Skill Development Mechanism from the first year of the program. The following actions have been taken:

Communication skills training in the first year of the program

Extensive technical skills development programs in second year and third year

Various small projects to develop application skills in students

- Continuous interaction with students from leading industries and universities helps to get their expectations.

1. Evidence of Success

The above practices resulted in the selection of students into the following companies:

- Total number of placements increased.

Overall, more than 35 students got selected for companies with a salary package of more than INR 5 lakhs per annum which itself is a record among all the institutions in this region

1. Problems Encountered and Resources Required

Students from rural / semi-urban backgrounds are not comfortable with many communication skills, it has become a tough task for educators, understanding awareness and creating interest among students in English speaking. In addition, they are expected to opt for a selection of other companies from the mainstream organizations like IITs / NITs not only in the domain of students.

Best Practice II

1. Title of the Practice:

Counseling: college follow a strong counseling system. Once, the students are admitted into the B.Tech course, each student is allotted one counsellor.

The faculty counsellor has a complete record of the student regarding his previous academic record, family background and personal details.

The main objective/purpose of the counselling is to mould the students in every aspect of life so that they become good citizens of the nation and more importantly get placed soon after their completion of B.Tech course.

The attendance percentage of each students is continuously monitored and messages are sent to parents for information.

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

The institute basically formulated vision and mission towards turning out aspiring engineering graduates with some exceptional abilities and qualities. Towards achieving this

program educational objectives (PEO's) have been framed for engineering and certain program out comes (PO's) are fixed for undergraduates.

These PEO's and PO's are mainly centered towards student attributes like engineering

knowledge, problem analysis, modern tool usage, responsibility towards society, professional ethics, human values, communicative abilities, and team spirit. As ultimately the goal of the

institution is towards student attributes, the whole teaching learning process is made

student centered. As part of this process, students are empowered with certain welfare

decision making in the teaching learning process and also made members of various

committees which frame policies and rules regarding academic process and also

about the welfare of students. In this process higher expectations are set for students goal recognizing and stretching the development levels is also possible through involvement of students .

Following is a list of distinctiveness of the Institution:

- State-of-the-art infrastructure
- Student centered learning
- In-house projects for the students
- Qualified and experienced faculty
- A separate placement and training centre

- A separate research and development wing
- Research Journal publication
- Industrial visits and tours
- Regular seminars by experts
- Conducting National conferences and seminars
- Free TOEFL, GRE and IELTS coaching
- Counseling and mentoring of the students
- Faculty development programs

NAAC

5. CONCLUSION

Additional Information :

Avanthi Institute of Engineering & Technology is the outcome of sound strategic planning of Avanthi Educational Society, committed towards achieving excellence in academic and research. This Self Study Report – 2017, a collective effort of all the faculty members, briefs about the active teaching, learning and evaluation process, contribution of faculty and students, governance and quality management of the institution for the past five years (2012-2013 to 2016–2017). However, number of quality publications, training and placements are significantly improved during the current academic period (2017-2018). The Management, Director, Principal and faculty are always stepping in together for designing and executing the quality policies and plans.

Concluding Remarks :

Avanthi Institute of Engineering & Technology is the outcome of meticulous planning, clear vision and concepts, conceived and nurtured by an internationally renowned educational society, committed to excellence in academics, research and governance, with its greatest strength in the cadre of men and women devoted to excellence in every process and undertaking. A detailed analysis of the criteria that are the commitments of an institution of excellence is given in the Self Study Reports of the college and uploaded on the NAAC website.