



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

**CHERUKUPALLY (VILLAGE), NEAR THAGARAPUVALASA BRIDGE,
BHOGAPURAM (MANDAL), VIZIANAGARAM (DIST), ANDHRA PRADESH
(STATE), INDIA, PIN-531162**

531162

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BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Avanthi Educational Society (AES), was established in 1991 by the educationalist of this region, having varied professional backgrounds, with the objective of providing quality technical education to all sections of society in and around the region of Andhra Pradesh State. Avanthi Institute of Engineering and Technology, established in 2005 is one of the renowned educational setups under the umbrella of AES.

Avanthi Institute of Engineering and Technology (AIET), Cherukupally (Village), is permanently affiliated to Jawaharlal Nehru Technological University Gurajada –Vizianagaram, and has been approved by the AICTE since 2005. The institute is under the aegis of Avanthi Educational Society, founded by a visionary educationist, Sri M. Srinivasa Rao in 1999. It offers Six U.G programs: B.Tech Computer Science and Engineering, CSE (Artificial Intelligence and Machine Learning), CSE (Data Science), B.Tech Electronics and Communication Engineering, Electrical and Electronics Engineering, and Mechanical Engineering. It also offers Six P.G courses in M.Tech CSE, Power Electronics, Power Systems, VLSI Design, CAD/CAM Engineering, and MBA

The Institute maintains high standards of academic achievement and training for its wards. AIET has signed 30 MoUs with various organizations and institutions for Internships, Certification programs, Value added Courses, Training and placements, Research projects, and Industrial visits. There are MoUs with PEGA University, USA, under its University Academic Program, with GITAM University for research collaboration, and with BSNL for its incubation center in the college. The Institute is a member of various professional bodies. AIET is ranked among the 19 best colleges in the two Telugu states by the Times of India Survey 2023.

AIET has a dedicated team of academicians and administrators who constantly monitor the functioning of the institute and the well-being of its students. The institute has achieved NAAC “B++” with CGPA 3.0 accreditation for a period of five years from 2018 to 2023. The UG programs ECE and CSE were accredited by NBA during 2013-2015.

The institute is spread over 10.5 acres with a built-up area of 16437 Sq.mts and has an excellent infrastructure. It has imposing buildings, spacious classrooms fitted with audio-visual aids, well-equipped laboratories, seminar halls, and a large auditorium. Departmental laboratories have the latest equipment and licensed software. The college has modern computing facilities with over 581 computers networked through broadband for Internet access. The Institute has a Central Library of 10000 Sq.ft., with a total collection of 44379 books in more than 6902 titles. It has IP-enabled access to various online journals like DELNET, J-Gate, IEI, MAT, and NDLI.

Vision

To develop highly skilled professionals with ethics and human values.

Mission

M1: To impart quality education with industrial exposure and professional training.

M2: To produce competent and highly knowledgeable engineers with a positive approach.

M3: To develop self-confidence among students which is an imperative pre-requisite to face the challenges of life.

Quality Policy

Avanthi Institute of Engineering and Technology emphasizes the ethical ideals to impart advanced training by creating the best possible infrastructure through engaging and activity-oriented teaching. It also uses the most updated information and communication technology to promote a critical approach among the students and aims for an effective and ambitious administration that is responsive in all the aspects.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

S1. The college is accredited by NAAC "B++" in the year 2018 with CGPA 3.0

S2. Dynamic, committed, and visionary management

S3. Well-equipped classrooms, labs, library, lecture halls, seminar rooms, and administrative blocks.

S4. Dedicated and competent faculty

S5. Imparts Outcome-based education on the basis of our robust teaching-learning process

S6. Proactive and efficient Training and Placement cell

S7. Powered with the state-of-the-art infrastructure

S8. Well-equipped with ICT-enabled classrooms, laboratories, seminar halls, a conference hall, and a mega auditorium

S9. Permanently affiliated to JNTU-GV with UGC 2(f) and 12(B) Recognition

S10. A dedicated Research center of Jawaharlal Nehru Technological University Gurugada, Vizianagaram (JNTUGV) for the Department of Computer Science and Engineering

S11. Regular Co-curricular and Extra-curricular activities for the holistic development of students

S12. Well-structured and effective mentor-mentee system to improve the student's performance in academics as well as other activities

S13. Proactive NSS unit to fulfill Educational Social Responsibility (ESR)

S14. Entered into MoUs with industries to assist students in internships, industrial visits, Incubation centers, and projects

S15. Has an NPTEL local chapter

S16. Transparent in the process of admission, examination, and in all matters

S17. IQAC ensures quality in the planning and implementation of all activities

S18. Signed an MoU with PEGA International University, USA for Academic Programmes

S19. Recognized Centers of Excellence from various institutions/organizations like APSCHE and Pega International University, USA

S20. A Green and renewable energy campus.

Institutional Weakness

W1. Limited scope for academic flexibility as it adopts curriculum from JNTU-GV

W2. The disinclination of students for higher studies and research.

W3. The students can be trained better to face competitive exams.

W4. Lack of project funding from the government

W5. Need more faculty of high cadre position

W6. Under merited students in some departments

W7. Unable to pursue cutting-edge research due to lack of resources/funding from funding agencies

W8. Lack of NRI student appeal/Interest

Institutional Opportunity

O1. Autonomy guarantees more freedom

O2. Ensure all programs are accredited by NBA

O3. Can build a unique brand value in the city/ state among the stakeholders

O4. Interdisciplinary research can be promoted

O5. Apply for more grants

O6. Collaborative research and other activities can be better networked with other institutes/industry

O7. The strong alumni base of the college can be involved to contribute to the institution towards excellence

Institutional Challenge

- C1.** Strengthening and promoting research culture
- C2.** Faces challenges in admitting quality students because of umpteen Engineering colleges in the region
- C3.** Motivate students to pursue higher education
- C4.** Enhance research activities through patents and publications in standard journals
- C5.** Upgrading the employability skills of students in a rapidly changing technological world to suit industry.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college is permanently affiliated to J.N.T.U-GV, Vizianagaram, and follows the curriculum prescribed by the university. The curriculum is planned and implemented by the institution, guided by its vision and mission.

Departments are given the flexibility to choose subjects of their expertise, which are in turn endorsed by heads of the respective departments in a transparent workload distribution mechanism. The syllabus, lesson plan, lecture notes, supplementary study materials, lab materials, and records are prepared as per the curriculum. The academic committee oversees all the academic activities viz., preparation of effective timetables, Course Plan, syllabus completion, and conduction of practical sessions in Labs, Assessment tests, Project and Seminar reviews, and any other issues of academic importance through the formats of semester theory & lab readiness programme and Semester theory & lab completeness Programme.

The course structure and contents of a course are oriented carefully to meet Program Outcomes (PO) and Program Educational Objectives (PEO). Memoranda of Understanding (MoUs) with local and national industries that are relevant to programs have been signed to make students acceptable at the local, national, and global levels. By conducting workshops, seminars, guest lectures, conferences, personality development, and life skills sessions periodically, students get an opportunity to interact with academic and industrial experts which helps in delivering the curriculum more effectively.

Various value-added courses, competitive examination coaching, entrepreneurship development programs, and soft skill development programs are frequently conducted to ensure the holistic development of the students and enhance their employability skills.

Being affiliated to Jawaharlal Nehru Technological University Gurajada, Vizianagaram, the institute is bound by the academic scheme and syllabus. Subjects related to professional ethics, gender equity, human values, environment, and sustainability are incorporated into the schemes of various courses. Moreover, AICTE has mandated induction programmes for first-year students, as a part of which, a step towards inculcating Universal Human Values (UHV) is taken.

The institution has implemented a feedback system for the enhancement of the teaching-learning process and support facilities. The feedback is collected from various stakeholders such as students, faculty, alumni, industry, and parents.

The evaluation process is done by individual departments and the action taken report is submitted to the Principal. At the university level, the suggestions regarding curriculum are communicated to the Director of Academic Planning for consideration at the time of syllabus revision.

Teaching-learning and Evaluation

The focus of education is "Teaching and Learning," which is essential for the development of knowledge societies. The institute uses experiential learning and student-centered learning as the foundation of its academic programme.

The institute admission process is managed by an Admission Committee. Admission to UG and PG courses is made through an entrance exam, namely the EAPCET, APPGCET, and ICET respectively.

The sanctioned intake for various UG and PG courses is the guiding factor for admitting the students based on the reservation policy as per the norms of the AP government. Further, the research center capacity as sanctioned by the affiliating University serves as the sanctioned intake for the Ph.D. The average admissions for the last 5 years is 70%. To ensure the holistic development of students, the institute follows a blended mode of learning for the effective dissemination of knowledge. The institute has well-qualified, experienced, and competent faculty with a student-to-teacher ratio of 16.5 to 1.

The teachers use different ICT tools, and various e-learning resources apart from the conventional teaching methods. The institute encourages students for online courses through MOOCs, SWAYAM, and NPTEL. The institute has adapted experiential learning, participative learning, and problem-solving methodologies through industrial visits, internships, surveys, fieldwork, project work, and participation in various national-level competitions like Hackathon. The learning levels of the students are assessed and special efforts are taken for slow learners and advanced learners.

Formative and summative evaluation: Evaluation of the students is done on a regular basis as per the Affiliated University norms and any student grievance is addressed within 72 hrs. The institute has a system of continuous self-assessment and an innovative teaching-learning process, which is completely aligned with Outcome Based Education (OBE). The institute has a mechanism to identify the levels of attainment of Program Outcomes and Course Outcomes.

The internal assessment process is carried out transparently and efficiently. Examination-related grievances are addressed as per the process laid down by the Institute and University in a time-bound, efficient, and transparent manner. To keep abreast of the knowledge the faculty attends various FDP / STTP courses / International and National conferences. The average percentage of students graduating in the minimum prescribed period during the last five years is 81%.

Research, Innovations and Extension

Institute strives for the development of students and faculty through various research projects. Grants for

research activity are approved by governmental and non-governmental organizations for the institute's faculty members. R&D Cell monitors and administers research activities undertaken during undergraduate and postgraduate courses offered by the University, AICTE, and faculty research contributions. Workshops/seminars on research methodology, entrepreneurship, and intellectual property rights are conducted regularly.

In order to encourage innovation and entrepreneurial activities, the college established an Institution Innovation Council (IIC), an initiative of MHRD, for selected Higher Education, Institutes under Ministry of Human Resource Development (MHRD), Govt. of India. The institution has taken up a number of initiatives, including training programs, start-up efforts, and pre-incubation support. Institute signed a Memorandum of Understanding (MoU) with many companies, industries, and other institutions for mutually beneficial relationships that include staff and students exchange, faculty development programs, Workshops, seminars, training, internship, Placements, sharing of physical resources etc.

As an outcome of active participation in research, papers have been published in various reputed international journals. The faculty of the institute has published more than 100 research papers in national/ international Journals and more than 22 books/ books chapter during the last five years. The Computer Science and Engineering department has emerged as a research center and got approval from JNTU-GV and doctorates are recognized as research guides.

The institute takes many efforts by planning various events to educate students and staff about their constitutional rights and responsibilities, such as their values and rights as citizens. We run numerous programs to sensitize people on fundamental rights, duties, values, and responsibilities as outlined in the Indian Constitution. NSS and Cultural Committee work to inspire and get the next generation ready for global competition. To promote awareness of the value of blood donation in the nation, the college has also arranged a blood donation camp, yoga activity, Road safety awareness, etc.

The Institute has 32 Functional MoUs with 153 activities under these collaborations. there is an MoU with BSNL-Visakhapatnam, for an Incubation center with the aim of creating a start-up ecosystem in the campus. The Institute organizes workshops/ seminars on Research Methodology, and Intellectual Property Rights in particular patents and copyrights. 19 Patents have been filed and published by the faculties.

Infrastructure and Learning Resources

The institute has ICT-enabled classrooms and laboratories for the effective dissemination of the curriculum. Under co-curricular and extracurricular activities sports facilities are in place. The college campus sprawls over 10.5 acres of land with a total built-up area of 16437 sq.Mts.

The Institute has 56 classrooms, two seminar halls, and one conference room equipped with various ICT facilities conforming to AICTE norms. Adequate budgetary provisions are made to maintain, renovate and augment the existing infrastructure. Administrative infrastructure like the Principal's cabin, Exam Cell, the HOD and faculty cabins, etc. along with amenities like a store, canteens, boys and girls common room, medical room, transportation facility, ambulance facility, and security services are in place as per AICTE norms.

The college has a high-speed campus-wide network connecting all departments. Full access is provided to all staff to access online resources and information through Broadband with a total of 150 Mbps of Internet

bandwidth. CCTVs installed at strategic locations help to monitor campus activities.

The Institution has a power backup system to ensure uninterrupted power supply and maintenance of electrical assets. The Institution has a powerhouse installed with Diesel Generators and solar power at 200 KW capacity contributing a monthly average of 4500 units to energy saving in the daytime.

The library has a built-up space of 425 Square meters with 150 seats and a separate reading room. The library is a knowledge resource center that has an excellent collection of books with 6902 titles, 37323 volumes, 7056 reference books, 88 hard copy journals, and 20 different magazines.

The library has an NPTEL Local chapter under the agencies of which video lectures from NPTEL are stocked. Further, the library has learning material in the form of 1473 CDs and DVDs. The e-resources comprise of Delnet, J-Gate, NDL, NPTEL, Swamy Prabha, and Open Access Resources.

One room is provided for the Yoga Club which helps students to maintain good health, possess mental and emotional stability, integrate moral values, and attain a higher level of consciousness. The institute has an Auditorium buildup area of 20000 Sq.mts with a capacity of 2000 members to conduct Annual Day, Graduation Day, and Cultural Activities.

Student Support and Progression

AIET is a student-centric campus that always tries to provide students with all facilities that contribute to their academic and emotional well-being. Institute has a well-established student support system for financial assistance, sports, and Cultural events. All eligible students are offered scholarships and free ship as per norms of the Central and AP State Government. The average percentage of students who benefited from these schemes is 82.9%. Many students get benefited from Jagananna Vidya Deevina from AP State Govt.

The institute has a centralized Training and Placement cell. It has a structured mechanism to make the students employable and also help them to choose the career of their interest. Many reputed companies visit the campus every year for recruitment. 72.95% of students are placed and joined their higher education.

Other than placements, aptitude training, and career counseling have helped Students qualify in competitive examinations like GRE, TOEFL, IELTS, GMAT, and for higher education through GATE, PGECET.

The institute has a Grievance Redressal Committee, Anti-sexual Harassment Committee, Gender Equality Cell, and Anti-Ragging Committee for speedy resolution of the respective issues raised by students through online or offline mode. The student issues are quickly addressed through in-house constituted respective committees.

The Training and Placement cell offers career counseling and pre-placement guidance at various levels to prepare students for advancement to higher education, as well as internship programmes and placements. The success of training is reflected in placements; the majority of eligible students get job offers in their final year.

Co-curricular and extracurricular activities are part and parcel of a student's life in college and enable them to discover their true potential. The students participated in intra-college sports, tournaments, and cultural competitions and achieved various awards during the last five years. The college organizes sports and cultural competitions on the occasion of National Sports Day, National Youth Day, Sankranti Sambaralu, Dasara Utshav, and Annual Day. The college also has a strong Women's Grievance Redressal System under the roof of

the Internal Complaints Cell.

The institution has a registered Alumni association and it works closely with the students and the department specifically, providing guidance and mentorship as well as financial assistance.

Governance, Leadership and Management

Avanthi Institute of Engineering and Technology (AIET) has created a well-defined transparent organizational structure with participative management through decentralization. The structure of governance facilitates transparency in the hierarchy, decision-making, and implementation of programs policies, and practices. AIET has Governing Body, Institute Academic Committee, Finance Committee, and IQAC along with many statutory bodies and other committees for taking policy decisions and strategic plans of action in Academic, Administrative, Research, and Finance affairs.

The governance structure supports a culture of involving members of faculty at all levels of decision-making and implementation. Thus, the various levels of good governance provide scope for the participative and productive involvement of various key stakeholders of the institution.

AIET has also a systematic strategic planning process to identify the strategic objectives, strategic challenges, strategic advantages, Short term, Middle term, and long-term goals with appropriate action plans by considering Institutional Vision, Mission, and Quality Policy as well as the feedback from internal and external stakeholders. This process also integrates all the quality processes and contributions made by IQAC. The consolidated institutional SWOT analysis through a structured approach is another input for the strategic planning process to ensure agility.

AIET provides various staff welfare schemes to attract good faculty. Faculty are provided with financial support for professional body memberships and to attend conferences. Various staff welfare schemes are implemented such as EPF, Group Insurance, Free transport, TA/DA reimbursement; salary advance, free transport, etc are also provided. Well-formulated HR policy takes care of all staff-related matters.

AIET conducts internal and external financial audits periodically and has its own mechanism to conduct audits. The annual budget of the department is prepared by the respective HODs and submitted to the Principal for approval. The Principal consolidates and prepares the institutional budget and submits the same for approval to the Governing Body.

Internal Quality Assurance Cell (IQAC) has significant contribution to institutionalizing quality assurance strategies and processes. IQAC has developed quality management strategies in all academic and administrative aspects. These initiatives include the collection & analysis of feedback from stakeholders for improvements, accreditation, certification, and participation in all rankings like NAAC, IIC, ISO, AISHE, etc.

Institutional Values and Best Practices

The prime role of an education institute is to impart teaching and inculcate social responsibility among the faculty and students. The Institute has conducted a considerable number of gender equity programmes during the last five years. Gender sensitization and professional ethics are a part of the curriculum. The institute has facilities for girls' common rooms.

The institute has a 200 KW grid-tied roof-top solar plant that can generate 60000 KWH of green energy per year. Sensor-based energy conservation and use of LED Bulbs, water conservation, plastic ban, and landscaping with trees and plants are also implemented by AIET and more than 52% of campus lighting is provided by LED.

In the path towards "Reduce, Reuse, and Recycle," the institute has set up a solid, liquid, and e-waste management system. Rainwater harvesting is also planned through multiple pits. Landscaping is maintained on the campus to create an eco-friendly environment. As per the guidelines, the institution allocates scribes for Divyangan students. The college NSS unit organizes various awareness activities to address the locational advantages and disadvantages of surrounding areas.

The institute observes most of the national festivals and anniversaries of great Indian personalities with active participation from students and staff. Transparency in financial, academic, administrative, and auxiliary functions is also maintained by the institute, which demonstrates it in real-world practices through various bodies.

The institute maintains two best practices, such as **Career Advisory and Augmented Services (CAAS)**, and **Grooming the Students into responsible citizens**, which imparts human values, and employability enhancement skills to make them industry-ready. As per the Quality Policy, the institute is committed for creating, archiving, and disseminating knowledge in Science, Engineering, and Technology for the service of humanity. AIET is unique and has a Technical Skill Development Institute (TSDI) which promotes Skill Development & Entrepreneurship in and around the rural areas.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	Cherukupally (Village), Near Thagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram (Dist), Andhra Pradesh (State), India, Pin-531162
City	Cherukupally Village
State	Andhra Pradesh
Pin	531162
Website	www.aietta.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	B Murali Krishna	08922-279884		-	
IQAC / CIQA coordinator	Gandi Satyanarayana	-9849202645	9849202645	-	iqac@aietta.ac.in

Status of the Institution	
Institution Status	Private and 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

State	University name	Document
Andhra Pradesh	Jawaharlal Nehru Technological University Gurajada Vizianagaram	View Document

Details of UGC recognition

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

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis
AICTE	View Document	14-06-2023	12	AICTE Approval renewal on yearly basis

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	Cherukupally (Village), Near Thagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram (Dist), Andhra Pradesh (State), India, Pin-531162	Rural	10.5	16437

2.2 ACADEMIC INFORMATION

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,Computer Science And Engineering	48	Inter	English	180	180
UG	BTech,Computer Science And Engineering	48	Inter	English	60	56
UG	BTech,Computer Science And Engineering	48	Inter	English	120	103
UG	BTech,Electronics And Communications Engineering	48	Inter	English	120	115
UG	BTech,Mechanical Engineering	48	Inter	English	60	28
UG	BTech,Electrical And Electronics Engineering	48	Inter	English	60	39

PG	Mtech,Computer Science And Engineering	24	B.Tech	English	18	3
PG	Mtech,Electronics And Communications Engineering	24	B.Tech	English	18	0
PG	Mtech,Mechanical Engineering	24	B.Tech	English	18	2
PG	Mtech,Electrical And Electronics Engineering	24	B.Tech	English	18	0
PG	Mtech,Electrical And Electronics Engineering	24	B.Tech	English	18	1
PG	MBA,Management Studies	24	Degree	English	120	106

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	16				32				96			
Recruited	6	0	0	6	16	8	0	24	50	46	0	96
Yet to Recruit	10				8				0			
Sanctioned by the Management/Society or Other Authorized Bodies	6				24				116			
Recruited	6	0	0	6	16	8	0	24	66	50	0	116
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				80
Recruited	47	33	0	80
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				80
Recruited	47	33	0	80
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				19
Recruited	18	1	0	19
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				19
Recruited	18	1	0	19
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/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	0	0	6	4	0	0	0	0	16
M.Phil.	0	0	0	0	0	0	1	1	0	2
PG	0	0	0	12	5	0	63	48	0	128
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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
UG	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/LLD/DM/MCH	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
UG	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
	0	0	0	0	0

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	1573	0	0	0	1573
	Female	653	0	0	0	653
	Others	0	0	0	0	0
PG	Male	91	0	0	0	91
	Female	90	0	0	0	90
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years						
Category		Year 1	Year 2	Year 3	Year 4	
SC	Male	17	25	15	22	
	Female	5	9	11	7	
	Others	0	0	0	0	
ST	Male	0	5	3	5	
	Female	0	0	0	1	
	Others	0	0	0	0	
OBC	Male	333	379	397	384	
	Female	199	173	176	131	
	Others	0	0	0	0	
General	Male	44	67	44	88	
	Female	38	48	13	31	
	Others	0	0	0	0	
Others	Male	0	0	0	0	
	Female	0	0	0	0	
	Others	0	0	0	0	
Total		636	706	659	669	

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	As part of the R20 Regulations of JNTUK, multidisciplinary/ interdisciplinary subjects in line with NEP 2020 have been introduced. Some of the features of R20 regulations: 1) Increased the number of Open electives 2) Introduced “Universal Human Values”, “Essence of Indian Traditional Knowledge”, “Indian Constitution”, “Environmental Science”, "Employability Skills", and Employability Skills-I and II as mandatory subjects. 3) Credit-based “Community Service project” is made mandatory 4) Increased the number of skill courses for corporate readiness & employability 5) Introduced Minors & Honors courses 6) Skill Oriented Courses 7) Summer Internship 2 Months after II Year 8) Industrial/Research Internship 2 months (Mandatory) after third year 2 Months during summer vacation. 9) Seminar Internship 10) Minor course through SWAYAM
2. Academic bank of credits (ABC):	Avanthi Institute of Engineering and Technology (AIET) is permanently affiliated to Jawaharlal Nehru Technological University Guragada- Vizianagaram. Our University has not registered for ABC till date. The University has not registered for ABC and hence credit transfer with other institutions /universities is not possible for AIET. AIET, being an affiliated institute cannot design its curriculum. The institution can give its suggestions/feedback to University Director's Academic Plan, for various disciplines.
3. Skill development:	Avanthi Institute of Engineering and Technology (AIET) has been working for the overall development of the students since its inception. As part of R20 regulations, the following aspects were introduced to enhance the skills: 1) Students were encouraged and provided with an opportunity to attain skill sets through various Skill Development Programmes. 2) II B.Tech 1st semester onwards introduced Skill oriented Courses - I, II, III, IV 3) Courses on Disaster Management, Non-Conventional Energy Resources, etc., are being offered as open electives to address Environmental aspects. 4) Value-Added Courses are being conducted apart from the Syllabi prescribed in the curriculum. 5) PEGA International University, USA Academic Programs
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	1) Avanthi Institute of Engineering and Technology (AIET) believes in the ‘well-being of all’ and inculcates the habit of living with continuous

	<p>fulfillment - right understanding (understanding harmony – truth) and living in harmony (love and compassion). 2) Moral/ethical behavioral values are emphasized so that one can look at an issue from multiple perspectives and can formulate a position/argument based on ethical behavior. This will also help in dealing with aspects such as cheating, violence, littering, tolerance, equality, and empathy. 3) AIET strongly believes that human and constitutional values will improve with these basic traditional Indian values such as seva, ahimsa, swachchhata, satya, nishkama karma, shanti, sacrifice, tolerance, diversity, pluralism, righteous conduct, gender sensitivity, respect for elders, respect for all people and their inherent capabilities regardless of background, respect for the environment, helpfulness, courtesy, patience, forgiveness, empathy, compassion, patriotism, democratic outlook, integrity, responsibility, justice, liberty, equality, and fraternity. 4) As a part of the Indian knowledge system implementation, the Avanthi Institute of Engineering and Technology has made “Universal Human Values”, “Essence of Indian Traditional Knowledge”, and “Environmental Science” mandatory subjects 5) Faculty are encouraged to deliver classroom lectures in bilingual mode (English and Telugu) 6) Conducts Yoga classes on a regular basis for all to preserve and promote Indian Culture and Traditions. 7) AIET conducts various events under the supervision of NSS which aims to provide knowledge of Indian heritage to its students.</p>
5. Focus on Outcome based education (OBE):	<p>Avanthi Institute of Engineering and Technology (AIET) is very much keen on implementing an Outcome-Based curriculum leading to outcome-based education in terms of Skill, Knowledge, and Character Competencies. With this background, the curriculum is completely aligned with its, planning, teaching-learning strategies, assessment, and evaluation. To start with, the Institution constituted various statutory and nonstatutory committees to ensure and adhere to the core philosophy of curriculum design framework right from the formulation of the Program Educational Objectives, Program Outcomes (POs) i.e. transactional statements of Graduate Attributes and Program Specific Outcomes (PSOs) reflecting the minimum</p>

	<p>requirement of Program Specific Criteria which is described by Professional Lead Societies of Engineering Accreditation Commission (EAC), ABET. All are aligned in line with the Mission of the department as well as reflecting the requirement of the Institute. 1) Initially, before the formulation of the curriculum, the voice of various categories of stakeholders are captured in the form of documented forms to understand the needs at local, regional, national, and international heights. Also, gap identification is done and the timeline is fixed to offer additional inputs to attain the expected outcomes 2) The course outcomes for all the courses are formulated understanding the depth of the delivery for each course and according to formulated various cognitive levels of Revised Bloom's Taxonomy 3) The syllabus is framed based on the list of formulated course outcomes that enable the program to measure the attainment of POs and PSOs. Further customized assessment is formulated and specified in the syllabus 4) All the curricula of the programs being offered are designed to follow multi- and transdisciplinary approaches promoting critical thinking and problem-solving skills which are the pinnacle of the outcome-based education 5) Above all, the members of the faculty are also being sensitized frequently to the above aspects 6) The teaching-learning process is ensured and aligned with outcome-based delivery by choosing appropriate learning activities and using appropriate teaching methods and ICT tools with appropriate assessment tools. Direct, In-direct assessment tools were developed along with Rubrics for the outcomes which are not quantifiable. Several MoUs with government and non-government organizations were done to offer industry-based delivery and integrated into the curriculum.</p>
6. Distance education/online education:	<p>Avanthi Institute of Engineering and Technology (AIET) is affiliated with Jawaharlal Nehru Technological University Guragada- Vizianagaram. All the programs and courses are conducted in regular mode. There is no distance learning or online education mentioned in the curriculum provided by the affiliating university. However, during Covid-19 time, all the classes were switched from offline to online mode from April 2020 - July 2021. At present, all the classes are conducted in physical mode. E-contents (e.g. videos, ppts notes) are also provided by</p>

the faculty for a better understanding of the courses by the students.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes. Established in the year 2021
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes. 2021-2022: Faculty Coordinator -Mrs. M. Lakshmi Sramika, Student Coordinators - Mr.Y Rakesh (Mechanical), Ms.A.Bhagya Sree (CSE), Ms.M.Renuka (ECE), Mr.G.Satyanarayana (EEE) 2022-2023: Faculty Coordinators - Dr.K.Sandhya Rani, Associate Professor, Dept. of BS&H , Mr.Shiek Hidayatulla Shariff, Assistant Professor, Dept. of Mechanical Engineering, Student Coordinators -Mr.V.Venkata Varun Prasad (ECE), Ms.T.Priyanka (ECE), Mr.P.Subash (CSE), Ms.M.Keerthana (CSE)
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	1. Conducted an awareness program on Enrolling as voters 2. Voter awareness camp conducted at Cherukupally Village. 3. Voter awareness camp conducted for disabled persons & senior citizens in various villages. 4. Voter awareness guest lectures conducted for in-house students. 5. Coducted a seminar on ethical voting on 25-01-2023
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	1. Graduate Constituency voter awareness & registration drive conducted in Chippada Village 2. Teachers Constituency voter awareness & registration drive conducted in College Campus.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	Voter registration drive conducted at Institute for the students above 18 years of age.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
2407	2153	2098	1858	1939

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 233

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

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

2022-23	2021-22	2020-21	2019-20	2018-19
144	147	150	156	159

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
649.50299	623.38895	574.90063	528.78613	465.73773

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Avanthi Institute of Engineering and Technology (AIET) is permanently affiliated to Jawaharlal Nehru Technological University Guragada-Vizianagaram, and strictly follows the curriculum prescribed by the university. The college offers AICTE-approved, Six B. Tech, Five M.Tech, and MBA Programs. The IQAC is ensuring the instructional standards for stable education and the examination system required for efficient curriculum delivery. AIET Academic Planning and Advisory Committee and Institute Academic Committee carry out effective planning and delivery of the curriculum. The Heads of the Department discuss their action plans in their meetings with faculty members, for optimal and effective curriculum delivery. The process of ensuring effective curriculum delivery by the Institute is as follows:

Every academic semester commences with the distribution of an institute academic calendar based on the **J.N.T.U-GV** calendar to students and faculty members. After the allocation of the subjects, which are taken from the subject choice based on the area expertise and the previous year's performance, a master timetable is prepared and shared with students. The lecture-wise schedule (LWS) is approved by HoDs for every subject in their department. The contents are delivered to students as per this LWS and are regularly monitored by the **IQAC team**.

The subject course file is prepared by every faculty member of the department (reviewed by HoD and IQAC team) that includes **Quality Policy, PEOs, POs, PSOs, COs, Academic Calendar, Syllabus, Class/Master time-table, Lesson Plan as per Bloom's Taxonomy, Mapping of COs and POs, Previous Year Question Papers, GAP-Analysis, Action taken to fill the GAP, Assignments, Topics beyond the syllabus, Quizzes, Question Bank, List of Text & Reference Books, E-content**. As per the university guidelines, time table of each department is prepared to seek the number of credit hours for each subject before the commencement of the semester by each department.

Academic Events: Academic events like Seminars, Workshops, Guest lectures, invited talks, Industrial visits, Conferences, Hackathons, Coursera, Eduskills, Symposiums, etc are planned by the respective HOD. In addition, the college is resourced with NPTEL videos; value-added courses, certification courses, and industrial visits.

Co-curricular Activities: The various activities like hourly tests, practical examinations, viva-voce exams, assignments, projects, seminars, and group discussions to be conducted by the teachers are indicated in the academic calendar.

Extra-curricular activities: The academic calendar gives a particular period to conduct extracurricular

and social activities. These schedules are inconsistent with the activities of NSS or other bodies.

AIET is equipped with smart boards, with all required ICT facilities, to facilitate the efficient delivery of the curriculum. Students' attendance is monitored regularly. As a part of continuous evaluation, two internal MIDs (MID-1, MID-2, Quiz-1, Quiz-2, and assignments 1 to 5), Lab Internal and External exams are conducted by the institute. The student's performance in two internal exams is uploaded on the university portal and analyzed further to take action. Feedback from Students, Teachers, Employers, and Alumni is taken based on predefined parameters. Based on the feedback and IQAC's observation, the strategy for improvements for the next academic year are devised.

Further, faculty-wise student feedback is reviewed, and Corrective and Preventive Action is taken if required. After the end-semester examination, university results are declared, and analyzed and corrective measures are taken accordingly. IQAC ensures the academic process to strengthen the curriculum delivery process.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1

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

Response:

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Other Upload Files

1

[View Document](#)**1.2.2**

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response:

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
2062	1815	1566	1423	1541

File Description**Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)**1.3 Curriculum Enrichment****1.3.1**

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

Avanthi Institute of Engineering and Technology (AIET) follows the curriculum of Jawaharlal Nehru Technological University Kakinada, Kakinada (JNTUK, Kakinada)

The Institute's curriculum effectively integrates cross-cutting issues relevant to gender, environment sustainability, human values, and professional ethics which lead to a strong value-based and holistic development of students. To this end, various activities are organized as a part of the curriculum throughout the year.

Professional Ethics & Human Values: The curriculum of UG/PG programs includes courses to encourage Human Values and Professional Ethics in students. This course is included to inculcate human values and professional ethics among all the students. Courses on the Constitution of India, Essence of Indian Traditional Knowledge, and Intellectual Property Rights (IPR) are also included in the B.Tech program. Courses on Professional Communication Lab, Soft Skills-I, and Soft Skills-II are taught in

B.Tech, and Universal Human Values are added in the B.Tech IV year of R-20 curriculum.

Gender Sensitivity: Gender-related courses are an integral component of various programs. Students are sensitized and encouraged to work towards gender equity from a cross-cultural perspective. Free counseling services are provided through a Women Empowerment Cell. Gender sensitization camps are organized to educate about women's rights, human rights, gender justice, and gender equality. Compulsory core courses, along with a wide range of community outreach programs that include health and hygiene camps, and village adoption enable exposure to real-life situations. The Institute annually organizes seminars, conferences, guest lectures, exhibitions, and literary activities that help in gender sensitization.

The institute believes in the need for gender equity and provides an environment that offers equal opportunities to women on par with men. The institute has a Women Empowerment Cell (WEC) headed by a senior female teacher along with committed female teachers. The cell is mandated not only to protect the girl students and female staff from discrimination and harassment but also to encourage them to participate in curricular, co-curricular, and extracurricular activities inside and outside the campus. The institution has approximately 30% of girl students and an equal proportion among the staff. This is the true reflection of gender equity. The WEC periodically conducts gender sensitization events on campus.

Environment and Sustainability: The curriculum includes different courses that address Environment and sustainability issues. The curriculum of R-16, R-19, and R-20 has Environmental Science as one of the mandatory courses. Also, the B. Tech Civil Engineering program includes courses on Environmental Engineering.

A rooftop solar power plant of 200 KW capacity has been installed on the college campus for producing clean energy. This power plant is linked to the electric grid of the Electricity Department APECDL where surplus power generated is fed back through a meter installed for this purpose.

Fuel is saved by optimal usage of transport facility. The waste management area is given high priority. The recyclable garbage waste and non-recyclable waste are dumped in specified containers/dustbins. A separate agency with specialized expertise dealing in waste collection and disposal has been hired to collect the waste on a daily basis.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

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

Response:

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 1537

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System**1.4.1**

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response:

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response:

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2022-23	2021-22	2020-21	2019-20	2018-19
643	542	640	550	416

2.1.1.2 Number of sanctioned seats year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
810	828	828	828	828

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response:

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2022-23	2021-22	2020-21	2019-20	2018-19
345	330	373	406	306

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

2022-23	2021-22	2020-21	2019-20	2018-19
458	468	468	468	468

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response:

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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

Avanthi Institute of Engineering and Technology provides an effective platform for students to develop the latest skills, knowledge, attitude, and values to shape their behavior in the correct manner. All departments conduct innovative programs which stimulate the creative ability of students and provide them a platform to nurture their problem-solving skills and ensure participative learning using various ICT Tools.

The institute organizes an annual technical fest, where the students showcase their learning in the form of innovative projects. The institute is a Wi-Fi-enabled campus, every classroom has a Wi-Fi-connected Desktop, 5-Smart Boards, and an LCD projector facility which helps in the learning process.

The faculty shares E-books, PPTs, and class notes using google classroom / WhatsApp / emails, etc. The Institute introduced ERP in phase wise manner to facilitate various student-centric activities. The faculties use several ICT tools for effective teaching and learning process. The online lecture delivery is done through various tools like Google Class Room, Zoom, Microsoft Teams, Cisco Webex etc.

A few ICT tools used are:

- 1.Desktop and laptops.
- 2.Smart Boards
- 3.Projectors
- 4.Tablets
- 5.Pen Drives, Microphones, writing pads, DVDs, and CDs.
- 6.Zoom and Google Classroom for delivering online lectures
- 7.Digital writing software such as MS-office, OneNote, etc.
- 8.Presentation software such as MS-Powerpoint, Google Slides etc.
- 9.Establishment of SMART Classrooms.

The Institute has a special focus on experiential learning, participative learning, and problem-solving methodologies which helps to build an industry-ready product. Faculty members make efforts in making the learning activity more interactive by using various ICT tools and adopting various student-centric methods mentioned below.

- Students are encouraged towards group/team activities, building projects, understanding and interacting with entrepreneurs etc.
- The main focus of the Innovation and Entrepreneurship Development Centre (IEDC) is to involve students working on projects, building IPR, making them
- Participate in Entrepreneurship awareness camps to understand the journey of an Entrepreneur.
- To encourage entrepreneurial culture, students are encouraged to opt for Entrepreneurship as an Open elective, further molded by IEDC for startups.
- Student clubs and Special Interest Groups at the department level encourage the students to work on technologies as required by the industry. This builds their interest in the technical domain and also encourages team spirit.
- Center of Excellence plays a very important role in engaging and building students in recent technologies.
- At final year level students work on projects in a team, where they are to follow the steps right from requirements gathering to product building, implementation, and testing phases.
- Students undergo internships during their academics (part-time) and also during vacations.

- The students also opt for add-on courses on the latest technologies with SWAYAM MOOCS NPTEL, Coursera etc.
- Subject practicals/ laboratories help students to learn the concepts through live hands-on experience.
- In order to enthuse the students to conduct experiments by arousing their curiosity, virtual labs are used.
- NSS team at the institute involves students on environmental and social projects, as a part of social responsibility.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response:

2.4.1.1 Number of sanctioned posts year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
144	147	150	156	159

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response:

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
17	18	19	18	16

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.5 Evaluation Process and Reforms**2.5.1**

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The college has a transparent and robust evaluation process to ensure transparency in internal assessment. Students are informed about the academic regulations of the four-year B.Tech programs, and two-year PG programs at the beginning of the semester. The same is conveyed through the Website, Mails, WhatsApp, LMS, and Examination cell. The college's academic calendar is prepared based on the academic calendar provided by the affiliated university. The college has an Examination Committee and Exam Cell which have faculty members from various departments to address the examination-related matters.

Two MID Exams per subject are conducted according to the rubrics. Subject teachers are not posted as invigilators in the examination halls. The college installed a CCTV in each Examination hall to check for any malpractice in addition to the invigilator's presence. After entering the Examination hall, invigilators are instructed to check the prerequisites like seating arrangement, dress code, and ID card of the students. If any discrepancy occurs, the invigilators report it to the chief superintendent for an immediate solution.

The examination procedure adopted at the college is very significant and grievances never crossed 0.001% from any stakeholders. However, if any grievances arise, they will be rectified transparently within 72 hours by the Examination cell.

The evaluation procedure followed in the assessments is disseminated through rubrics such as the Scheme of evaluation etc. The faculty members shall submit 2 different sets of question papers, out of which one set is selected by the HOD. The subject teacher is expected to collect the MID answer scripts from the examination cell on the day of the exam itself and submit evaluated answer scripts within 48 hours after students' verification. Three stage verification process in finalizing the scheme of evaluation is rigorously followed in the college. In the case of lab-related subjects, a continuous assessment is carried out based on the rubrics. The assessment related to internal (Descriptive, Assignment, Quiz, Lab, CSP, Internship, Project) marks are finalized for assessments and the same is displayed on the notice board. The finalized marks after due verification by the Examination cell are uploaded to the university portal.

Process at the Institutional level - In the case of Internal examinations (Theory subjects), if the students have any issue with regard to the marks posted in the script, they can discuss it with the faculty concerned. If the issue is still unresolved, it is brought to the notice of the higher authorities for redressal and the same would be resolved within 24 Hours.

The process at the University level - Any grievances related to the End examination question papers are brought to the notice of the Examination cell. The cell sends a letter to the university immediately, if necessary. The University takes immediate action based on the grievance. If a student is not satisfied with the marks allotted to his/her in the end examination, he/she can opt for revaluation, recounting, or Challenge evaluation after paying the requisite fee to the university. If the students are opting for re-evaluation/rechecking of their answer scripts, the same is submitted to the university to do the needful.

Hence, the mechanism adopted by the college is transparent, time-bound, and efficient. Grievances related to mistakes in certificates are handled by the Examination cell by taking up the matter with the university

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

Avanthi Institute of Engineering and Technology frames the POs (Program Outcomes), PSOs (Program Specific Outcomes), and COs (Course Outcomes) of the relevant programs in accordance with the guidelines of Outcome Based Education (OBE), following extensive consultation with all faculty and stakeholders. Following the achievement of a consensus, the statements are extensively disseminated and advertised via different channels of presentation and/or communication mentioned below.

- **Website:** The syllabus of all programs offered by the institution is uploaded on the institutional website which includes the COs of various courses of the curriculum.
- **Syllabus:** All courses of the curriculum have well-defined COs in the affiliated university syllabus. The hard copy of the syllabus is made available to every student.
- **Course handouts:** Vision-Mission, POs, PEOs, & PSOs of the various programs offered by the institution along with COs of the courses of the curriculum are included in the course handouts of every program.
- **Library:** Central library facility of the institution keeps all the PEOs, PSOs, POs, and COs of all programs for easy access to students and faculty members through the syllabus books of various programs.
- **Laboratories:** All POs, PEOs, PSOs, and COs of specific lab courses are displayed in Laboratories for the benefit of the students and the faculties at the beginning of every semester.
- **Course Files:** Course files are prepared by the faculty members for every semester consisting of POs, PEOs, PSOs, COs and lesson plan, notes, PPTs, handouts, previous year university question papers, internal assessment question papers, assignment questions, etc.
- The POs, PEOs, and PSOs are published on the institutional website and presented in all the prime locations such as HOD cabins, Staffrooms, corridors, classrooms, laboratories, etc, and the same is communicated to students and faculty members. COs of the respective course are indicated in internal assessment question papers.

While addressing the students, the faculty members, class teachers, and mentors inform the students, create awareness and emphasize the need to attain the outcomes.

Program outcomes (POs) are broad statements that summarize the professional accomplishments that the program aspires to and that students are expected to achieve by the end of the program. POs include a wide range of interconnected information, abilities, and personality attributes that students must acquire before graduating.

Programme Specific Outcomes (PSOs) are well-defined, aligned with the vision and mission of the institution, and are in accordance with the department graduate attributes.

Course outcomes (COs) are the statements that articulate the essential and persistent discipline knowledge, abilities that students should have, and level of learning that is expected upon course completion. They are specified and communicated explicitly. The COs are an integral part of the year-wise curriculum document provided by the university. The number of COs for a course is not fixed and may have about four or five COs. While courses like lab may have as three COs. While defining the COs, faculty will ensure that they are not an abridged version of the course content and use Bloom's taxonomy for defining every CO. Its attempts to specifically address one or more POs through the course content and its assessments. However, the strength of the mapping is dependent on the course experts, and this component necessitates the need to have the CO-PO mapping together with its strength.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Procedure for measuring the attainment of Course Outcomes (COs) (Till Academic Year 2019-2023)

CO Attainment Process:

Direct attainment is measured based on the performance of the students in internal and external examinations conducted during the semester. The college conducts two MID term internal Exams and two Quiz online exams. CO-attainment results are obtained from the above-mentioned exams in the following manner:

Exam Type	Units Covered	CO's Attainment extracted
MID 1	Unit-1,2,3 (Part-A)	CO1, CO2, CO3
MID 2	Unit-3 (Part-B),4,5	CO3, CO4, CO5
Quiz 1	Unit- 1,2,3 (Part-A)	CO1, CO2, CO3
Quiz 2	Unit- 3 (Part-B), 4,5	CO3, CO4, CO5
Assignments	Unit- 1,2,3,4,5	CO1, CO2, CO3, CO4, CO5

Finally, the CO attainment results of all the sections are averaged out to calculate the final CO attainment by the concerned subject faculty. Internal and external CO attainments are calculated in proportion of 25:75 in the final CO attainment. For measuring the attainments of COs of a theory course, the targets for the attainment are fixed as indicated below:

- MID Paper Subjective and Objective: 75% of maximum marks (7.5 marks out of 10)
- Assignments:75% of maximum marks (3.75 marks out of 5)
- For Lab and Projects: 75 % of maximum marks (15 marks out of 20)
- For project: 75 % of maximum marks (45 marks out of 60)

External Examination: Grade weightage (10) obtained subject to a minimum of 60% (Under JNTUK affiliated stream)

With the above-fixed target levels, the attainment levels are specified as follows:

Mid-term Exams – Subjective, Objective, and Assignments

With the above-fixed target levels, the attainment levels are specified as follows:

Mid-term Exams – Subjective, Objective, and Assignments

Target is 60% of Max Marks

- Level 1 If 0% to 59% of students attain the target
- Level 2 If 60% to 79% of students attain the target
- Level 3 If 80% and more than 80% of students attain the target

In the case of laboratory courses and Projects, 60% weightage of internal marks and 80% weightage of external marks are considered for the calculation of attainment.

Direct Attainment of CO = 0.4* Internal Exam + 0.6* End Semester Exam

External Exams

Target is the Average grade Obtained

- Level 1 If 0% to 49% of Students attain the Average Grade
- Level 2 If 50% to 79% of Students attain the Average Grade
- Level 3 If 80% and above 80% of Students attain the Average Grade

Overall CO attainment = 0.25*Internal Exams attainments+0.75*External Exams attainments

PO Attainment Process:

The following Assessment tools are used for the attainment of POs and PSOs.

S.No	Tool	Category
1	CO attainment results of all theory & Practical courses (Internal and External)	Direct Assessment
2	Students' online feedback, Alumni online feedback, Parent online feedback, faculty feedback, industry and employer online feedback	In-direct Assessment

PO/PSO Attainment (Direct) and PO/PSO Attainment (In-Direct)

Direct PO attainment is derived from CO-PO/PSO mapping table. Mapping strengths between the courses and the PO/PSOs are replaced by their proportional CO attainments and Students'online feedback, Alumni online feedback, Parent online feedback, faculty feedback, industry and employer online feedback (cumulative assessment of direct and In-direct attainments)

Evaluation:

Direct Attainment of PO/PSO =0.8* (Mid-term +Objective +Assignment+ End Semester Exam)

In-Direct Attainment of PO/PSO = 0.2* Feedback (Students'online feedback, Alumni online feedback, Parent online feedback, faculty feedback, industry and employer online feedback)

PO/PSO Attainment (Final)

Final Attainment of Program Outcomes (PO/PSO) =0.8* (Direct Attainment of (PO/PSO) + 0.2* (In-Direct Attainment of (PO/PSO)

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
402	383	410	365	522

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

2022-23	2021-22	2020-21	2019-20	2018-19
495	460	528	481	624

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

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

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
6.43	11.91	2.09	1.2	1.3

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

Avanthi Institute of Engineering and Technology has created an ecosystem for innovation including an incubation center and other initiatives for the creation and transfer of knowledge. By attracting and developing attractive human resources, taking the initiative to generate and disseminate information, and constructing cutting-edge infrastructure, the institute has established an ecosystem for Research and Innovation.

Patents: AIET has created an ecosystem for innovations and has taken initiatives for the creation and transfer of knowledge by encouraging the faculty to file and publish **patents** to promote research activity.

Incubation & Innovation Centre: AIET established an Incubation & Innovation Centre to foster and nurture a creative culture on campus. It has also taken other initiatives for knowledge creation and transfer, such as generating and disseminating information, constructing cutting-edge infrastructure--as

part of the aforementioned, AIET has taken initiatives to set up an Incubation centre, like **BSNL**, and a Technology exchange centre, like **DST G-TEC**. The institute has partnered with the AP Innovation Society to transform unique ideas into solutions in order to encourage students to think creatively.

Professional Body Memberships: The College is associated with professional bodies, and it also urges faculty members to be involved with professional groups such as **ISTE, CSI, IIC, IEI**, and others, for advancement in their careers.

Research & Development Cell: AIET has established a Research and Development Cell to instill research and innovation employs in staff and students, as well as to provide a forum for innovative minds to demonstrate their ingenuity and inventiveness. R&D Cell established Student Clubs in each department, namely, IoT Club in CSE, Crexta Club in ECE, Spark Club in EEE, Mechamorphis in Mechanical Department, and Builders Club in Civil Department. These clubs organize several events each year to help students nurture their knowledge and ideas.

Research Centre: Computer Science and Engineering department has emerged as a Research Centre and got approval from JNTU-GV and is looking forward to carrying out research on a larger scale in terms of quality and quality.

Entrepreneurship Development Cell: EDC was established in the college to encourage the student's sense of entrepreneurship. The cell strives to establish an entrepreneurial ecosystem on campus and offers students a platform to develop ideas into financially viable technological businesses. The cell's goal is to build an outfit of faculty members who are enthusiastic about putting programs into action. Since its start, the cell has pushed students to consider options outside of internships and jobs. To boost the student's business spirit, numerous inspirational speeches and awareness campaigns are held.

Hackathons: At the College level, the development of cost-effective society-related projects is encouraged. Other Initiatives for the creation and transfer of knowledge include coding contests and HACKTHONS through the Coding Club of the college. The College has a Dassault Lab and is a CM Centre of Excellence (supported by APSSDC). Through the various activities, students will be exposed to national and international environments and get the necessary inspiration for innovations.

Conclusion By embracing a multidisciplinary approach and forging strong partnerships with industries and the community through MoU's, the institution ensures that its research and innovations have a meaningful impact on society at large. In this way, it contributes to the advancement of knowledge and the betterment of the world we live in.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual

Property Rights (IPR) and entrepreneurship conducted during the last five years**Response:****3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
15	11	6	10	10

File Description**Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)**3.3 Research Publications and Awards****3.3.1****Number of research papers published per teacher in the Journals notified on UGC care list during the last five years****Response:****3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
19	19	18	22	9

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2

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

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
20	4	2	1	0

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

The Institute has always been at the forefront of undertaking community service-related activities to shape its students into socially responsible citizens. The extension programs are conducted regularly to give the necessary social exposure to students. The students also take up some social programs as their project work to provide solutions to real-life problems. Most of the extension activities are carried out with the help of the NSS Unit of the college consisting of student volunteers and students.

The aim of the extension activities is to raise awareness of the students and general public on various social issues such as gender sensitization, environmental protection, consumer rights, civic sense, health and hygiene, child care etc., for molding the students into responsible citizens and holistic individuals. Extension activities are undertaken, important days are observed and social service programs are conducted in the vicinity of the institute and neighboring villages of Majjivalasa, Revidi, Chippada, Mullakuddu, Tagarapuvalasa etc., to make students and the general public active partners in these activities.

A range of social extension activities like Vanam Manam, International Yoga Day, Giripradhakshana, Say No To Plastic, World Space Week, Swachh Bharat, Voters Day, International Women's Day, AIDS Day, World Health Day, Save Girl Child, Gender Equality Day, Beti Bachao-Beti Padhao, Blood Donation Camps, Ration & Mask Distribution, Water Conservation Day, World Earth Day, Nutrition Day, Day Against Child Labour, Vaccination drive, Day against Drug and illicit Trafficking, Old age Home visits, Azadi ka Amrit Mahotav, National unity Day etc., have been organized by the institute during the last five years. These programs conducted by the college have served their twin purposes of raising awareness and helping the general public. The positive impact these programs have had on the society and neighborhood community in terms of raising awareness and providing relief to the community is proof of the commitment of the institute towards society.

Several clean and green initiatives like Vanam Manam, Say No to Plastic, Water Conservation Day, World Earth Day, Swachh Bharat etc., are organized in line with sustainable development goals and environmental protection.

Giripradhakshana is the festival organized by the Simhachalam Temple festival in Visakhapatnam, Andhra Pradesh, All the devotees of the Hindu community walk around the Simhachalam temple hills, for a distance of 36 kilometers. Devotees from various states participate in the event. Our NSS team and Staff serve the devotees by providing water and food to them on the occasion.

Beti-Bachao Beti Padao, International Women's Day, Save Girl Child, Gender Equality Day etc., are organized to raise awareness of gender equality and women's rights. World Health Day, Nutrition Day, and Vaccination Drives are organized to promote the health and well-being of the general public.

National Unity Day, Voter's Day and Azadi ka Amrit Mahotsav etc., are aimed at promoting patriotism and a spirit of nationalism among the students and the general public. Many other days and miscellaneous events aimed at students and the general public are organized to meet specific social goals.

The institute and its NSS Unit aim to take these programs forward with a renewed commitment to

building a better society and responsible student community through concerted efforts.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Avanthi Institute of Engineering and Technology received the following awards and recognitions:

Avanthi Institute of Engineering and Technology through extension activities, transforms the students as leaders of social change to provide lasting solutions to social problems. The NSS unit of the college is at the forefront of encouraging the students on various social issues and ensuring their participation in welfare activities. Engaging the students in extension activities has created a sense of selfless service-mindedness among the student community. It helps to instill social responsibility, groom overall personality and create awareness of social issues.

The college conducts a number of extension activities every year which provides an arena in which the college joins hands with the neighboring community, reviews their concerns, and does its best to ensure societal welfare. An awareness program on Say no to plastic was conducted in the neighboring villages Majjivasasa and Revidi and received appreciation letters from the Sarpanches.

The institution looks upon Swachh Bharat Abhiyan not only as a means to clean the environment but as an overall purity of the Body, Mind, and Soul. Under Swachh Bharath Mission, the college also took up many initiatives and organized many programs in the college premises and neighboring villages like Mass Awareness rallies on Plastic Ban, Solid and liquid waste management, Clean & Green, Tree plantation, Cleanliness Drive in the college and surrounding areas, etc.

.The institute organized Blood Donation Camps to motivate the staff and students to become responsible citizens and blood donors as well as spreading the message of peace and harmony through humanitarian approaches. Life Share Blood Centre, Visakhapatnam has joined hands for facilitating the initiative by coordinating with the Hospitals/blood banks. The college was presented with the Award of Excellence by Life Share Blood Centre. Awareness programs Against Drug abuse and illicit Trafficking and AIDS were conducted at Revidi Panchayat and received appreciation letters. An awareness program on Nutrition Day was also hosted at ZP High School, Chippada, and received an appreciation letter from the Headmaster of the school.

Gender sensitization is a need that has been felt and recognized by everyone and the NSS unit is actively promoted. Awareness programs like Beti Bachao Beti Padao, Save Girl Child, and Gender Equality were

organized at Chippada village and received appreciation letters. Awareness Program Against Child Labour was organized in Chippada and Revidi Panchayats and secured appreciation letters.

On National Voters Day awareness Programme was organized in Majjivalasa village. and the sarpanch issued an Appreciation letter.

The objective of World Space Week celebrations in the Majjivalasa panchayat was to educate the public about space activities. The NSS unit was involved in the distribution of basic amenities like rice, vegetables, sanitizers, masks, clothes, etc to the people of Mulakuddu panchayat. The Sarpanch of the village appreciated the college for its philanthropic activities.

Impact on the Society

The interventions through extension activities have resulted in improved literacy, reduced drug abuse, Hygienic surroundings, improved health, and cleanliness. The institution is marching ahead with a promising goal to ensure the growth of the society and environment.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
18	18	9	10	16

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response:

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

The Institute has a well-maintained lush green campus spread over 10.5 acres of land and a built-up area of 16437 Sq.Mts with optimal utilization of physical infrastructure for teaching and learning activities. It is located beside Express Highway NH-16 and is 15 Km away from Visakhapatnam City.

The institution has a spacious library with 150 seating capacity, a good collection of books, and a separate reference section. The library is fully computerized and automated with Soul software. Adequate space is available and allotted for the functioning of the placement cell, exam cell, R&D cell, etc.

The institution has 625 computer terminals to inculcate constructive aptitude, computing skills, curriculum, and administrative and research needs. The institute has a separate computer center with internet browsing facilities and a high-speed broadband connection with 150 MBPS speed. There are facilities for the functioning of the Alumni Association, the Innovation and Entrepreneurship Development Cell, and the IQAC Cell.

The institute focuses on developing good infrastructure like smart classrooms, well-equipped laboratories, canteen, transport facilities, playgrounds, power backup, etc. All the academic blocks have ramps to make it convenient for physically challenged people

Classrooms: It has a sufficient number of well-furnished, well-ventilated, spacious ICT classrooms equipped with LCD projectors, and Smart Boards for conducting theory classes with the provision of Multimedia learning.

Seminar Hall: The Institute has two seminar halls of 500 and 100 capacity with a Wi-Fi, LAN facility.

Tutorial rooms: Separate tutorial rooms are there in the college campus for tutorial lectures, doubt clarification, and remedial classes for weak and needy students.

Laboratories: All laboratories are well equipped with the- state-of-the-art equipment and facilities. All the laboratories are established as per AICTE norms. Incubation centers, learning, and research.

Sports: There is a Separate Sports Department headed by the Physical Director of Sports encouraging students to participate in various sports & games.

a) Outdoor Games: A spacious two playgrounds is available for outdoor games like cricket, football, volleyball, basketball, badminton, etc.

b) Indoor Games: The institute also has an indoor area for playing chess, table tennis, carom and badminton etc.

Gymnasium: The institute has a gymnasium facility for students to strengthen their physical & mental abilities.

NSS: The NSS unit is started with the objective to cultivate an attitude of social service in the minds of students. Various socially relevant activities like tree plantation, blood donation camps, etc. are taken up regularly.

Hostel: The college provides an exclusive hostel facility for girls which has a hygienic environment, clean food and water, and free Wi-Fi facility.

Auditorium: The college has an auditorium spread over 20,000 Sq. Mts with 2000 capacity.

Cultural activities: The students are encouraged to participate in and arrange various cultural activities to cultivate team spirit, and organizational abilities and bring out hidden talents among students. Every year, an annual event Youth Fest is conducted.

Communication Skills: A language laboratory is available for the students to provide an environment that enables all students to practice their listening and speaking skills concurrently.

Health and Hygiene: The College maintains a **medical center** with a doctor to treat the students and staff for any health problems. The in-house team of housekeeping staff is appointed for the day-to-day cleanliness and maintenance of the premises.

Yoga center: The college has provided a Yoga center that helps students to maintain good health, and possess mental and emotional stability.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response:

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
195.47559	236.23982	173.78681	164.44391	153.09826

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

The library has a built-up space of 425 Square meters with 150 seats. It supports Research and instructional processes. It provides instructors, staff, and students (UG & PG) a place to learn.

Qualified librarians, assistants, and support staff make up the library's workforce. The library is open on all working days from 9.00 AM to 6.00 PM. It has a separate issue counter and returns counter, department-wise textbook sections, and ST/SC book bank. The library maintains separate student project books and newspaper sections. The library has two printers and two barcode guns. The library has a digital library with 15 computers and an internet facility of 150 Mbps speed for the access of students and faculty, and a photocopy machine.

S. No	COMPUTATION OF LIBRARY	QUANTITY
1	No. of Computers	15
2	No. of Xerox Machines	01
3	Printers	02

ILMS software

The central library's main goals are to make important material easily accessible to its users in a

networked environment and to establish itself as a leading learning resource center for engineering, science, and technology, as well as allied fields. The library is automated with Software for University Library (SOUL2.0 Version) for easy transaction and circulation of books through Bar-coded ID cards with a barcode gun. OPAC (Online Public Access Catalogue) reflects databases to users around the world using internet facilities. Users can access online information and books, search a document, confirm its availability, reserve the book, and even issue/return the material, etc., Articles can be downloaded by the users from the e-journals by using their user id and password allotted by the institution.

S.No	Computation of Library	Quantity
1	Library Software	Soul 2.0
2	Barcode Guns	2

E-Resources & E-Journals

The college allocates special funds to acquire Books, Periodicals, and e-Journals relating to programs operated by the college. It provides for academic and research work in the college. Additionally, the college also subscribes to peer-reviewed journals from different national and international publishers.

Particulars	Available Numbers
Number of Hard Copy Journals	88
Number of Magazines	20
Number of CDs & DVDs	1473

The library also subscribes to 106 periodicals and more than 19389 e-journals, maintains a separate reference section with Handbooks and General Knowledge books, supports departmental libraries, and uses an open access system that encourages users to browse freely in the stack area.

S.No	Name of Digital Publisher
1	DELNET
2	J-Gate
3	IEI
4	MAT
5	NDLI

Books: The details of the various types of books in the library are given below:

Particulars	Titles			Volumes		
	Regular Books	Book-Bank Books SC- ST	Total	Regular Books	Book-Bank Books SC-ST	Total
B.TECH	4760	178	4938	23391	1315	24706
M.TECH	531	---	531	2825	---	2825
M.B.A	1529	---	1529	9514	---	9514

The Number of Titles and Volumes are as follows

Particulars	Available Numbers
Total Number of Titles (Regular)	6902
Number of Book Bank Titles	178
Total Number of Volumes	37323
Number of Reference Books	7056

Usage of the library:

Around 300+ faculty and students visit the library daily. It provides reliable sources of information that contribute to the personal and professional growth of the visitors.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

Avanthi Institute of Engineering and Technology (AIET) has adequate IT infrastructure which is updated and upgraded continuously as per the curriculum requirements and Technology updates.

In 2018, the WIFI facility was installed with the latest CISCO & TP-link wireless access points. Every nook and corner of the campus is provided with Wi-Fi and Internet facilities, including the Principal's Chamber, Director's Chamber, ExamCell and Staff rooms, Seminar halls, conference rooms, HOD Cabins, and Canteen common areas on the campus.

AIET has around 581 computers in various Computer Laboratories for Academic utilization which are used by 2407 students in addition to these 44 systems are there which is Present at various locations including the Principal's Office, Director's Office, Administration Office, Exam cell, HOD Cabin. All these terminals are connected through LAN with internet facilities. ICT facilities are available in all the departments. Computer Systems have been updated from generic machines to core i5 and computing machines also increase from 410 to 625 in 5 years.

A leased line connectivity of 150 Mbps with Dual Path from BSNL and RR Internet ISP is procured and has been updated from 100 Mbps to 150 Mbps in the last five years.

The maintenance of computers, Internet Wi-Fi networking, and installation of software and maintenance and up gradation of hardware is conducted by in house expert team. Institute plans the specific need and forecasts the improvements in IT infrastructure, and specific maintenance and ensures IT services to the users.

1. **Network Security:** The college campus has completely switched high availability network. The network is secured by a firewall integrated into the router. Additionally, Sophos is available with access control. A total of 1000 users can be logged in simultaneously.
2. **Software Asset Management:** We categorize software assets as open-source software assets and proprietary software assets. The proprietary system software is purchased at the Institute level and further distributed to different units. Application software is purchased for individual departments as per their curriculum and research requirements.
3. **Open-Source Resources:** To reduce the dependence on propriety software and tools, we strongly promote open-source software, tools, and applications for supporting computer-assisted learning, teaching, and design. Some of the open-source software tools used are JDK, Star UML, Eclipse, G++, GCC, SSH, My-SQL server and client, Scilab, Octave, etc.
4. **Smart Boards:** In order to make regular utilization of ICT facilities by faculty and students, which ensures an easier understanding of the subject practically as well as theoretically, our college has introduced 6 smart Boards with configuration Evota 75” Interactive Flat Panel Display and Evota OPS I5 Windows10A.
5. **CM Excellence:** In addition to other IT facilities, the institution also utilizes CM Excellence, which is a collaboration with the Andhra Pradesh State Government for the benefit of students. Training programs are delivered by External Experts. For this purpose, we have 36 Laptops with the configuration (ACER/ i5/ 16GB).
6. **APSSDC:** The Mechanical department has an MOU with Govt. of Andhra Pradesh and has set up a Dassault system lab by APSSDC. For this purpose, we have 36 Laptops with the configuration (HP/ i5/ 16GB).

We have 92 CCTV cameras installed for 24x7 campus surveillance.

The IP Surveillance system was established in 2018 with the following configuration:

- Analog camera (4 MP, HikVision,Hi-Focus)
- Projector Screen -20
- Network Rack- 32
- DVR and NVR with 4 TB of storage of 8 Nos

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response:**4.3.2.1 Number of computers available for students usage during the latest completed academic year:**

Response: 581

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1**

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

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

2022-23	2021-22	2020-21	2019-20	2018-19
229.55050	268.15087	209.50949	215.20217	210.33084

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response:

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1950	1659	1874	1498	1686

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

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

Response:

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
1870	1963	1802	1561	1647

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

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

Response:

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response:

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
320	289	273	287	390

5.2.1.2 Number of outgoing students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
493	401	387	357	499

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
14	23	27	16	28

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3 Student Participation and Activities

5.3.1

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

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
7	13	3	7	5

File Description	Document
Upload supporting document	View Document
list and links to e-copies of award letters and certificates	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3.2

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

Response:

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
46	50	13	34	33

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1

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

Response:

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

Avanthi Institute of Engineering and Technology (AIET) started its alumni association in 2014 with 25 members initially. Later it got registered societies registration Act as Alumni Thagarapuvalasa Avanthi Association "ATAA" in 2018. AIET feels proud of its alumni working in various capacities catering to the needs of society and the Alumni Association extends its direct and indirect help to the management and to the students through various means.

- To maintain and update the alumni coordination cell website.
- To communicate the college events to the alumni.
- Invite alumni to the campus to take their ideas for the improvement of the institute.
- To request the alumni to extend their contribution towards the development of the institution.
- To take up the help of alumni for higher education.
- To conduct career guidance sessions with the alumni.
- To explore internship opportunities with alumni.
- To bridge the gap between the college and alumni.
- Keeping complete track of alumni with their required details.
- To conduct seminars, workshops, and guest lectures.
- Inform them about the current changes and achievements of the institute.
- Alumni association meetings take place yearly and future plans are discussed in the meetings.
- Along with the association meeting annual alumni meet is also organized at the institute level every year.
- Alumni contribute to various non-financial firms such as alumni interaction week, alumni challenge competitions, etc.
- Stories for motivation.

Alumni on our campus for the benefit of the juniors, namely for conducting viva, STP activity, conducting mock personal interviews, discuss business and entrepreneurship opportunities. During the interaction, alumni highlighted the importance of current trends in the market and guided the students about career opportunities in different fields. They also shared their personal experiences with students. Alumni visit campus at regular intervals to support the existing batch of students in planning and organizing events and extend support and guidance for the functioning of various student clubs. Alumni

who are entrepreneurs have been providing inputs on how to start a new venture and turning them into job providers, as a result nearly fifty percent of students became entrepreneurs.

Some of the alumni are actively participating in social services combined with creative activities for rural area kids. These activities are quite motivational and create enthusiasm among children resulting in awareness related to the importance of education among poor children. All these activities are carried out during weekends. Whenever these alumni visit the campus they motivate students to follow their path for the betterment of society. Alumni extend their support for campus placements and summer and winter internships for HR, Finance, and Marketing students from time to time.

AIET Alumni Meet ‘CONNECT’ every year. Connect is a formal function that consists of the inauguration, and alumni interaction with students. Cultural programs by a present batch of students will be held followed by dinner. During the program, alumni give insights into various specializations and industries to the existing batch of students. Alumni share their corporate experiences, guide the current batch of management students, and assures the students of continuous interaction with their junior counterparts

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

The focus and core ideology of the institution is reflected in its Vision, Mission, and Quality Policy as shown below:

Vision:

To develop highly skilled professionals with ethics and human values.

Mission:

1. To impart quality education with industrial exposure and professional training.
2. To produce competent and highly knowledgeable engineers with a positive approach.
3. To develop self-confidence among students which is an imperative pre-requisite to face the challenges of life.

Quality Policy:

Avanthi Institute of Engineering and Technology, emphasizes the ethical ideals to impart advanced training by creating the best possible infrastructure through engaging, activity-oriented teaching. It also uses the most updated information and communication technology to promote a critical approach among the students and aims for an effective and ambitious administration that is responsive in all aspects.

Governing Body (GB) is the highest decision-making body of the Institute and it is constituted as per the guidelines of the University Grants Commission (UGC). The GB consists of Management representatives, a Government Nominee, a University Nominee, Industrialists, Educationalists, an IQAC Coordinator, and Faculty members of the College.

The Chairperson of Avanthi Institute of Engineering and Technology (AIET) is the president of Avanthi Educational Society and the principal is the member secretary of the GB. The GB ensures the preparation of a strategic plan through a bottom-up approach involving all the stakeholders and implementation through a top-down approach.

The principal, who is the academic head of the institution, is aided by: HODs, Finance Officers, and other institute-level committees. The various committees that direct the day-to-day functioning of the institute include the Insttit; Academic Planning and Advisory Committee, Institute Academic Committee, and Finance Committee. Other committees and cells that take part in Governance include IQAC);

Examinations and Evaluation Cell; R&D Cell; Training and Placement Cell, Institute Innovation Council (IIC), etc.,

HOD: Responsible for the overall administration, functioning, laboratory, and maintenance of the department. Groom staff members to lead different departmental committees.

The policies, strategy, resources, as well as operations and quality assurance, cater to the different facets of the institute, academics, research, innovation and entrepreneurship, and social responsibility with a global vision.

AIET, as well as its principal, ensures seamless management. They systematically encourage participative leadership by involving various stakeholders at various appropriate levels of decision-making.

Decentralization and Participative Management:

The institution has a decentralized and transparent mechanism in management, administration, financial and academic affairs. This mechanism delegates appropriate responsibilities from the top-level management to the low level and allows the top management to focus on policy-making and major decisions.

The following are the operational level decentralization of various activities that are in vogue in the institution:

High-Level Committees: The Governing Body and statutory committees partake in the overall development and growth, policy decisions, and financial and disciplinary issues.

Middle-Level Committees: Principal, Director, and HODs partake in rules and regulations, planning and development, curricular and co-curricular activities, etc.

Lower Level Committees: Various committees are constituted for the purpose of monitoring the policies, rules, and regulations of the institutes.

All stakeholders of the institution have participative roles in various decision-making committees. External stakeholders like statutory body nominees, State government Nominees, University nominees, Industry experts, Employees, and Educationalists constitute 20% of all the committee members. Faculty constitute 55% and Students and Alumni constitute 15% of the committee members. The remaining 10% of the committee members include Management.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

AIET has a clearly defined organizational hierarchy structure to support executive processes that are clear and reliable with its purposes and supports effective resolution-making. The organizational structure executes the functioning of institutional capacity and educational effectiveness through various Committees.

The institutional Management is designed in a logical way with transparency to get the optimum results out of it. A hierarchy structure is established from top management to the lower level, clearly demarking the duties, responsibilities, accountability, and authorities at every stage. The Governing Body of top management, the principal, HODs, teaching, non-teaching, and students work as a team to reinforce the culture of excellence.

The principal is the chairperson of the administrative and academic activities of the institution. Heads of the departments take the responsibility of heading all the administrative and academic activities of the department. The HODs possess academic autonomy in accordance with all academic aspects. They are entitled to take decisions as per the needs of the institution.

The IQAC submits not only the Strategic Perspective Plan but also submits various proposals for academics, administration, and policy formulations. All proposals after ratification by the Governing Body are deployed and periodically reviewed by the IQAC. Various Committees in the College independently deploy their plans and report to the IQAC with regard to Quality Assurance.

Our College is committed to imparting Quality education to the youth enabling them to develop the right attitude, and professional competence and inculcating the right ethical values. There is a formally stated quality policy which ensures the following:

- Providing excellent infrastructure and a conducive learning environment
- Building a harmonious work culture and motivating everybody to contribute the best.
- Proactively responding to changing needs of industry, parents, and society by embracing the latest technological trends in the field of education.
- Complying with requirements of ISO 9001:2015 Standards and striving continually to improve the quality of operations of the Institution.

Strategic Plan:

By taking into consideration above mentioned aspects, the following is the strategic plan for the quality enhancement of the Institution:

Objective 1: Achieving Academic excellence through curriculum orientation and fostering experiential learning through ICT.

Objective 2: Exploration of Knowledge through Innovation and Research providing inclusiveness to societal needs.

Objective 3: Exponent for the Development of a Rounded Personality with Global Vision & Social Responsibility.

Objective 4: Relentlessly pursue institutional effectiveness through quality assurance systems.

Objective 5: Institutional Holistic Development, Infrastructure Development, Strengthening Faculty, and Examination Reforms

Successfully implemented Strategic Plan: To provide employment and higher education opportunities for students and to meet the Strategic Plan, it has taken the following steps

- PEGA University Academic Program provides training to selected students. After successful completion of this program, students would receive Pega Certified System Architect and Pega Certified Senior System Architect certifications from Pega Systems. These certifications would enhance job opportunities for students.
- Mentors and Staff coordinators are available to guide and respond to the student's questions and concerns of all kinds.
- Placement training is strengthened further by the services of highly reputed professional training institutions such as Six phrase Pvt Ltd & Conduira Pvt Ltd etc.
- To improve the programming skills among the students it is decided to conduct the “C &DS, Python, SQL, Java, aptitude and Communication Skills” classes by in-house trainers.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

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

Response:

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

The Performance is assessed yearly, mainly, in three areas: Teaching, Research, and Services. Based on the outcome, the contribution to the professional development account is decided. Also, the yearly review is discussed in one-to-one meetings with the Principal / Director/HoD where plans for improvement are also discussed and evolved. For tenure, this ensures that the faculty achievements in academics are globally competitive and benchmarked.

A system of annual appraisal is followed for all the teaching and non-teaching staff. The appraisal form includes the teaching, presentation techniques, course delivery, evaluation scheme, academic commitments, and professional development of the faculty members. The evaluation is made based on the Self Appraisal system of the institution. Accordingly, Feedback forms are distributed to the students. The duly filled-in feedback forms are collected from the students and scrutinized by HoD. A report is generated by the Head of the Department and the same is forwarded to IQAC.

The finalized Performance Appraisal form will be distributed to the Principal for further action. The assessment report and concluding remarks are considered for promotion, increment, recognition, etc. From the outcomes of the appraisal measures, the competency level of the staff is increased and the academic performance can be improved. Based on Appraisal Committee suggestions, improvement programs are arranged to strengthen the performance. The performance appraisal facilitates the promotion/increment process in a transparent manner. This practice helps in maintaining the consistent development of the institute.

For Non-teaching Staff: The yearly appraisal is done based on a framework evolved which assesses the quality and timeliness of the services being provided. Based on the outcome of the review, the skills of

the person may be enhanced, if required, in any particular area through training programs, etc.

Believing that a satisfied employee is the backbone and an asset for the institute and can make the institute a productive place, the management has put in several welfare measures and schemes for the faculty, nonteaching staff, and students.

The Institution provides effective welfare measures to both Teaching and Non-teaching staff. All statutory welfare measures are implemented. Various monetary and non-monetary measures towards personal and professional growth are provided to the employees:

1. Employees are covered under EPF.
2. Salaries as per the norms of AICTE.
3. Registration fees and academic leave for faculty attending conferences, workshops, and FDPs.
4. Free Transport facilities from various places in Visakhapatnam, Srikakulam, Vizianagaram, etc.,
5. Sports, gym, and yoga facilities for staff and students.
6. Incentives for publishing Journals (SCI / Scopus, UGC Care), Conference papers, Books, Patents, and research work.
7. Group Insurance Facility (Risk Category I and II)
8. Salary advances
9. Promotions
10. Encouragement for Ph.D. awarded faculty
11. OnDuty leave, Medical leave, and Causal leave are provided for the staff
12. Maternity leave for Female Staff.
13. Staff are provided with free Internet and Wi-Fi facility on the college campus.
14. Free Uniforms (Dress Code) and Shoes for Class – IV employees.
15. Free Medical Facility on the campus.
16. Increments after getting a Ph.D.
17. Reduction of workload for the faculty during their final submission of the Ph.D. thesis.
18. Paid leaves for the marriages of Staff.
19. All supporting staff who have two or above years of service are offered Rs.5,000 as financial support and 11 days of marriage paid Leaves at the time of his/her marriage.
20. Earned Leaves for Non -Teaching Staff

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2

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

Response:

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

2022-23	2021-22	2020-21	2019-20	2018-19
108	104	124	97	83

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response:

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
129	123	137	114	109

6.3.3.2 Number of non-teaching staff year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
17	5	6	06	5

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The college implements academic and non-academic reforms within its self-conceived development programs that focus on quality and relevance, excellence, resource mobilization, and greater institutional autonomy with accountability, research, and equity. The funds are primarily generated through the fees paid by the students joining the programs. Any deficit in the funds would be managed by seeking funds from the parent trust or borrowed from the banks in the form of an Overdraft. Another source of the funds is grants received through faculty projects submitted to the funding agencies through Research proposals. These funds are utilized for research and laboratory development for the benefit of society and students.

The institute has a well-defined mechanism to examine the effective and efficient utilization of available financial resources for the development of academic processes and infrastructure development.

The institutional budget is prepared by the Principal every year taking into consideration recurring and nonrecurring expenditures. Accordingly, all the administrative and academic heads are requested to submit the budget required for the subsequent financial year. Along with this all coordinators of different cells viz., R& D Cell, Exam Cell, T&P Cell, NSS Cell. were also instructed to submit their budget

through the Principal.

All the major financial decisions are taken by the Institute's Governing Body (GB) upon the proposal from the finance committee. All the major financial transactions are analyzed and verified by Finance committee under different heads like Research & Development, Training & Placement, Software & Internet charges, Library Books/ Journals, Repair & Maintenance, Printing & stationery, Equipment & Consumables, Furniture & Fixtures and approved by GB.

Financial planning ensures consistency in achieving goals, aligning the growth objectives of the institute with its financial requirements. It also supports the strategic growth of the organization. To Begin with the End in Mind, the institute plans and accumulates the right amount of funds by gathering the inputs and requirements from its associated departments.

- Financial Planning is exercised well in advance for the organization and efficient Budgeting & Controlled mechanism is done by involving the various Academic Departments and Administrative Sections of the Institute.
- Financial planning and review are done in periodic intervals through the statutory - Finance Committee headed by the Principal, Director, Management representative, Faculty, and Account personnel as members.
- Finance Committee meets 2 times a year and reviews the income-expenditure statements and suggests a further action plan. The Management, through the Governing Body, looks into income and expenditure patterns, and pragmatic recommendations are given.
- The well-structured financial section is in place and every financial transaction is recorded through software.
- Financial Rules are in place in the Institute and the "No-Cash" Transaction System is followed. Fee payment is encouraged through online mode.
- A flexible financial system allows spending more than the budget allocated as per the approved budget on the benefit of demands and requirements.
- Optimal utilization and execution of the budget are monitored through internal and external auditing. Internal audit is conducted on a monthly basis and the statutory external audit is conducted twice a year by chartered accountants.

Audited financial statements are made public by placing them on the institute website and are sent to the statutory and regulatory bodies

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

As per the guidelines of AICTE, UGC, and NAAC, an Internal Quality Assurance Cell (IQAC) has been established to pursue the institute's action plan for performance evaluation, assessment, accreditation, and quality improvement of the institution. The prime task of the IQAC is to develop a system for conscious, consistent, and catalytic improvement in the overall performance of the institution. The work of IQAC is the first step towards the internalization and institutionalization of quality enhancement initiatives.

The IQAC is the central body within the college that monitors and reviews the teaching-learning process, structure, and methodologies of operation regularly, through its organizing committee members, and meetings are conducted periodically.

The initiatives that contributed significantly to institutionalizing the quality assurance strategies and processes are as follows:

- 1.Relevance and equity in quality of academic and research programme.
- 2.Optimized and integrated methods of Teaching and Learning.
- 3.Credibility of evaluation procedures.
- 4.Ensuring the adequacy, maintenance, and functioning of the support structure and services.
- 5.Organizing a Faculty development programme in each department.

Two of the practices that are institutionalized as a result of the IQAC initiative are demonstrated below:

- 1.Implementation Outcome Based Education.
- 2.Campus Recruitment Training (CRT) programme to set up a platform.

The three components that encompass an outcome-based approach to learning are:

- An explicit statement of learning intent expressed as outcomes that reflect educational aims, purposes, and values;
- The method or approach to enable the intended learning to be achieved and demonstrated (curriculum, teaching, learning, assessment, and support and guidance methods)
- Criteria for assessing learning which is aligned to the intended outcome.

Methodology of Operations:

The IQAC is the central body within the college that monitors and reviews the teaching-learning process, structure, and methodologies of operation regularly through its organizing committee members. IQAC regularly conducts meetings in periodical intervals to monitor and take steps to initiate new structures, processes, and methodologies of operations. Review of the teaching-learning process and methods of operations and outcomes are analyzed based on targets and the reports of the Academic audit.

IQAC assembles feedback from students in specifically planned arrangement questionnaires twice a year.

Feedback is collected on curricular aspects, teaching-learning methods, faculty, and institutional programs. Steps are taken to develop the overall performance of the college by evaluating the feedback from the stakeholders. The Institute Academic Committee comprising the Principal, Director, and all HoDs along with examinations in charge monitors and reviews teaching-learning and other activities of the institution.

The Departmental committee meets with all faculty members at the commencement of the semester. A teaching course file is maintained by each faculty member, signed by the HODs are presented every semester to the principal for approval. Some of the teaching-learning methods are:

- Preparation of course plan at the beginning of every semester.
- The seminars and workshops are conducted for the faculty members.
- Examining students by conducting internal tests.
- Holding extra classes, if necessary, for course completion.
- Arrangement of remedial classes, and doubt-clearing classes for slow learners.
- Establishment of a research cell in order to encourage research activities.
- Usage of ICT tools in the teaching-learning process.
- Remedial Classes for weak students to improve their academics
- E-learning is promoted through ICT. Opening an NPTEL Local Chapter is an example.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**
- 5.Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response:

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

Avanthi Institute of Engineering and Technology maintains Gender Equity and Gender Sensitivity. To this end, IQAC and WEC perform Gender Audits in the institute.

Gender Audit:

IQAC and Women Empowerment Cell (WEC) have done an audit on Student and Staff (Teaching & Non-Teaching) participation in Curricular and Co-Curricular activities. In the audit, it has been identified that of students; identified there are 762 female students out of a total of 2,407 students and the remaining are male students. According to the audit of staff, there are 59 female staff out of a total staff of 189, remain are male staff. The audit indicates that the women's count is less and need to strengthen women's participation. WEC has come up with an action plan.

The IQAC has done an audit on Curricular and Co-Curricular activities. The total participation of students in all the activities is 1436, in which the total male student participation is 594 and the female student participation is 842. After the audit, it has been observed that there is more women's participation and it is stated that AIET has maintained Gender Equity in the campus.

Gender Equity and Sensitization:

Gender Equity and Sensitization are a part of AIET's institutional values and ethics. As proof of this, the chairperson of the Governing Body and the General Secretary of AIET are women. Hence, AIET has been maintaining Gender Equity since its inception. Various events were organized to create awareness among faculty and students on Gender Equality like the Safety & Security of students from Social media, Hygiene, and Sanitization for a Healthy living environment, a Program on Stress Management to have a balanced life, a Program on Gender Champions to promote Gender Sensitive learning environment, Program on Women Empowerment, etc.

There is a **Women Grievance Cell, Redressal Cell, and WEC** to safeguard and empower the rights of Female members in the institution. The committee constituted by AIET, under WEC, WGC, and WRC for the academic year 2023 comprises of following members;

Mrs.M. Lakshmi Sramika, Presiding Office

Mrs. M.Indira, Member

Mrs. A.Swathi, Member

Dr.K.Sandhya Rani, Member

Curricular & Co-Curricular Activities:

In Curricular & Co-Curricular Activities, girls and boys actively worked together at the department and college levels. The students actively organized, participated, and won prizes in various competitions like Essay-Writing, Poster Presentation, Sports and Indoor Games competition, Rangoli Competitions etc., and the prizes were distributed by senior female faculty.

Facilities for Women on Campus:

- The institute is closely guarded by surveillance cameras and round-the-clock security personnel manning all the vantage points in the college to ensure the safety and security of girls and women.
- AIET has made it compulsory for all the students and staff to have the Disha App in their mobiles for reducing sexual harassment in and outside the campus.
- Common rooms, Day care centers for young children, and medical help for women are handy to address medical issues.
- All the Classrooms and laboratories in all the departments are installed with Hi-Tech CCTV cameras to monitor the activities and also for the safety and security of students.
- A fire extinguisher is placed in each floor. Suggestions and complaint boxes are provided to receive the complaints of women and ensure the secrecy of the complainants.
- The Senior Faculty Members counsel the girl students regarding their safety.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response:

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

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

Response:

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of

students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Avanthi Institute of Engineering and Technology (AIET) takes immense pride in fostering an inclusive environment that nurtures tolerance, harmony, and understanding among its diverse community of students and employees. The institution believes in embracing and celebrating cultural, regional, linguistic, communal, and socio-economic diversities while sensitizing its members to their constitutional obligations as responsible citizens. AIET's efforts revolve around organizing events and programs that promote cultural exchange, environmental consciousness, and civic engagement.

AIET hosts various events celebrating the rich cultural heritage of India and its diverse regions. Sankranti Sambaralu, Fresher's Day, and Holi are cultural festivals celebrated with great enthusiasm. These events provide an opportunity for students and employees from different backgrounds to come together, share their traditions, and build strong bonds of friendship, fostering a deeper understanding and appreciation of each other's customs and practices. In its commitment to creating responsible citizens, AIET conducts events on national occasions like World Environment Day, Independence Day, Republic Day, Engineers Day, Teachers Day, etc. These events sensitize participants about their constitutional obligations, rights, and duties as citizens of India. Engaging activities and discussions focus on environmental conservation, civic responsibilities, and the significance of the Indian constitution in shaping the nation's destiny.

Promoting linguistic diversity and unity, AIET organizes events like Elocution Competitions on topics like "Hindi our National Language." Participants showcase their language skills while fostering respect for different languages spoken in the country, nurturing inclusivity and understanding among linguistic communities. Addressing communal and socio-economic issues, AIET actively participates in events like Yoga Day and the "Say No to Plastic Bags" awareness program. These initiatives improve participants' physical and mental well-being while cultivating a sense of responsibility toward Environmental sustainability and social well-being.

AIET encourages embracing various forms of social service activities, including blood donation drives exemplifying the spirit of giving back to society. The institution commemorates important days like World Health Day, World AIDS Day, and National Mathematics Day to raise awareness about health-related issues and the significance of Mathematics in everyday life.

Instilling values, understanding rights, and fulfilling duties and responsibilities are vital aspects of AIET. Awareness programs on Voting rights and Code of Conduct committee meetings are conducted. Induction programs instill ethics, integrity, and civic responsibility in new students, making the Constitution of India a mandatory course and requiring every student's participation in the UHV program.

In conclusion, Avanthi Institute of Engineering and Technology sets a commendable example in fostering an inclusive environment that promotes tolerance harmony, and constitutional awareness. Through its diverse array of events and initiatives, AIET strives to create responsible citizens who respect and celebrate cultural, regional, linguistic, and communal diversities.

The institution's commitment to nurturing civic engagement, environmental consciousness, and social

responsibility reflects its dedication to shaping well-rounded individuals who contribute positively to society. By embracing these principles, AIET ensures that its students and employees are not only academically competent but also socially responsible citizens of India.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Avanthi Institute of Engineering and Technology has adopted many best practices aimed at the holistic development of students and mould them into responsible citizens of society. The mentorship program ensures that students are properly guided during their course period to achieve the best possible result. Personalized care, keeping the strengths and weaknesses of the students in mind, is the uniqueness of the approach. The teaching and training of the underperforming students adopt a specialized approach which includes remedial classes and backlog classes. The study hours conducted for the freshers ensure their smooth transition from intermediate education to the engineering stream.

The usage of ICT tools for imparting knowledge through teaching is also one of the best practices of the college. Among the many best practices adopted by the college, two best practices are chosen to be crucial to meet the ever-changing job requirements and the emerging market. Best Practice I “Career Advisory and Augmented Services” is chosen to train the students academically and the Best Practice II “Grooming the Students into responsible citizens” is chosen to mould the students into good individuals with integrity by imparting moral values and social responsibility among them.

Best Practice -1

Title: Career Advisory and Augmented Services (CAAS)

Career Advisory and Augmented Services (CAAS) plays a crucial role in augmenting the performance of the majority of the intake, who are mostly from a rural and economically underprivileged background. CAAS has been successfully imparting comprehensive training for better academic performance, securing good placements, planning for higher education, and excelling in competitive exams since 2018.

Several training and orientation programs are conducted through CAAS for the overall development of the students. The programs include Mathematical, Qualitative, and Quantitative Aptitude Training, improving vocabulary, Verbal ability, Reasoning and logical abilities, and Coding skills like C, C++,

Java, SQL, Python, etc., Improving Communication Skills through elocution, resume writing, improving Soft Skills through Group discussions, etc. CAAS also conducts Personality Development programs, Motivational talks, Orientation programs to plan for higher education, Career awareness programs, Placement training like interview skills, etc., The yawning skill gap which is generally witnessed among students from underprivileged backgrounds leaves them at a disadvantage.

Hence, there is a need for concerted skill development programs to re-skill and up-skill these students to make them competitive. A growing economy like ours needs more graduates with the right skill set. AIET complements the efforts of the Government of India and the government of Andhra Pradesh in their mission of skilling the nation. Because we believe that a skilled workforce contributes to productivity and growth of the economy.

All these programs have yielded positive outcomes in terms of better academic results, an improved placement record, increased enrollment for higher education, and a higher percentage of students qualifying in competitive exams. CAAS is responsible for the overall improvement in the performance of the students and it complements the efforts of the Government of Andhra Pradesh in uplifting the condition of the socially and economically underprivileged sections of the society through its fee reimbursement and other financial incentive schemes. Qualitative, skill-oriented, and innovative teaching and training programs contribute to positive social and economic impacts. This goes a long way in combating poverty and the social backwardness of these sections of society in line with the stated aims of the government.

Best Practice -2

Title: Grooming the Students into Responsible Citizens

The practice of grooming students into responsible citizens in Indian higher education aims to go beyond academic learning and foster values, ethics, social responsibility, and civic engagement. It recognizes the importance of holistic development and provides opportunities for students to engage in extracurricular activities, community service, and leadership roles to develop empathy and a sense of responsibility towards society. However, the practice faces challenges. The education system's focus on rote learning and examination-centric approach limits opportunities for active citizenship engagement. Additionally, the lack of standardized frameworks for citizenship education and financial constraints hinder comprehensive student development. Despite these challenges,

AIET witnessed the positive impact of the practice. Students showed increased awareness and understanding of critical issues like environmental sustainability, ethical conduct, public property protection, and resource management. The problems encountered in implementing the programs include students' initial lack of awareness or interest, resistance to change, resource constraints, and sustaining long-term interest. To address these challenges effectively, trained facilitators, relevant educational materials, interactive platforms, and supportive infrastructure are required. Collaboration with external organizations and experts can also enhance the programs' impact.

Several initiatives have been taken by AIET to influence the behavior and actions of the students toward responsible citizenry. Talks and programs on several social ills plaguing society have deepened the awareness of students and resulted in desired outcomes. The programs have called attention to pressing issues like sustainable development and adopting ethical behavior in our engagement with public property and natural resources. As we believe that today's students are tomorrow's leaders, their active

involvement in these best practices will guide them to grow into responsible leaders in their chosen fields of activity and take the society and nation on the path of healthy and holistic development.

Overall, nurturing responsible citizens in Indian higher education is essential for shaping individuals who contribute positively to society. By addressing the challenges and providing the necessary resources, institutions can continue to develop socially conscious and responsible individuals who make a meaningful difference in their communities and the world. AIET provides the right platform and wherewith to achieve this goal.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1

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

Response:

Avanthi Institute of Engineering and Technology is situated in a green environment, which is free from pollution and provides a perfect ambiance for the all-round development of the students. It aims to impart excellent quality education in the field of Engineering and Technology at affordable fees and aims towards the holistic development of the students. The institute is a non-profit organization that provides educational services to students from backward areas and aims at uplifting and empowering them as successful professionals.

The college keeps itself updated with the 21st-century demands in terms of knowledge, skills, training, and technology. MoU is signed with PEGA International University under its University Academic Program. Value-added courses, Internships, CRT etc., are conducted regularly to equip the students with the necessary soft skills and hard skills necessary for their life and career. We are taking regular feedback from students as well as faculty to improve the college curriculum as well as for the implementation of better teaching-learning practices for the upcoming semesters by publishing books, book chapters, patents, and various SCI, Scopus, UGC Care journals, and also by participating in seminars workshops, FDPs.

NEP Guidelines:

The curriculum of various courses has been tailored to match the guidelines and aims of the National Educational Policy. The syllabus is divided into minors, majors, professional electives, open electives, and interdisciplinary subjects offering more choice and variety to students.

Academic performance of students:

The thrust area of AIET is the overall academic performance of its students. Its overall result is its area of distinction. The result of students graduating during the academic year 2022-2023 vouches for it. The Institute has achieved 81.34% results in B.Tech. The Institute supports not only distinctive students but also students who come from rural areas. It provides qualitative education and career guidance for both high-ranking and low-ranking students in EAPCET.

Project-based seminars:

The college follows the Outcome-based educational practice and evaluation of Learning Outcome / Course Outcomes by conducting competitions, Quizzes, Seminars, Internal Assessments, etc., for the students to present their project work, to share innovative ideas of their work with the audience that adds value to their communication skills and innovation ability.

Adopted activity-based academic learning process:

The institution has Modernized E-Class rooms that are equipped with multimedia projectors, chalkboards, microphones & speaker facilities. There are 11 E-Class rooms to enhance the teaching-learning process which leads to a better performance by students in all Internal and External examinations. The college provides ICT Based teaching-learning with tools like 5 smart boards and 61 Projectors, through which, NPTL video lectures for students and faculty, and Google classrooms are conducted. Google spreadsheets, Online Resources, DELNET, and Language Labs are made available to its students for an easy and effective teaching-learning process.

Development of Employability skills:

The college's placement cell trains students in verbal ability, aptitude, soft skills, and technical skills. The institute places a high premium on the employability skills of its students and takes many steps in this direction. The institute collaborated with External training agencies like Igurukul and PACE Academy to provide necessary training to the students and to help them in their preparedness for a successful career.

Pega Platform:

The college collaborated with Pega International University, USA (for academic programmes. The program offers highly competitive benefits and robust programs focused on:

- Employee wellness
- Inclusion and diversity
- Professional growth and education

BSNL Incubation Centre

AIET is the second college to start a BSNL incubation Centre in India. The main focus of the center is to meet 21st-century challenges with innovative ideas and Technology. Five labs have been set up under the center. The lab is equipped with equipment like an optical splicing machine to spectrum with accessories, OTDR, etc., The College management thanked BSNL members Mr.Satya Prasad DGM,

Mr.B.S.SrinivasaRao, AGM, and Mr.D.Srinivasa Rao, SDE, for their collaboration and MoU.

R&D Centre

The CSE Department of the Avanthi Institute of Engineering and Technology has been recognized as a Research center by Jawaharlal Nehru Technological University – Gurajada. Doctorates are recognized as Research guides and allocated to research scholars and improved research facilities.

Skill development and value additions:

The institute arranges various skill development and value addition programs to facilitate students to enrich themselves with entrepreneurship, employability, and soft skills development. To meet the demands of the ever-changing technological world, skill development, and value-added certifications programs are continuously undertaken to increase knowledge and skills and also to provide professional credibility. The courses by APSSDC are also imparted to the students.

Expert lectures/guidance:

The world of Education is changing tremendously, owing to modern requirements and much-needed changes. The guest lectures by technologists, entrepreneurs and eminent academicians are organized to students on a regular basis to learn new things, explore new areas of interest, and connect with professionals who could later be their guiding light.

Sports, Games, and Cultural Activities

The college has a wide area for multiple sports with all the modern facilities. Students from our college participated and also bagged medals and prizes in various competitions. Cultural competitions are conducted and students participate on various occasions like Fests, Annual day celebrations, Fresher's Day, etc., with a sense of unity, commitment and to promote Indian culture and heritage.

NSS and Outreach Activities

The National Service Scheme is aimed at developing student's personality through community service. Students undertake extension activities to learn social inclusion and responsibilities of importance like Engineers Day, World Environment Day, International Anti-Drugs Day, World AIDS Day, International Women's Day, Independence Day, and International Youth Day etc, which are part of the activities.

Conclusion

The institution constantly strives for excellence in Engineering Education by empowering academics, implementing innovation practices towards holistic development, and integrated character building of the students. The institution is committed to ushering in social-economic transformation by providing inclusive, innovative quality education to fully meet the expectations of all the students who enrolled themselves to pursue their graduation.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

- Avanthi Institute of Engineering and Technology is at the forefront of providing quality education to create skilled professionals who serve the society and Nation. Importance is given to continuous quality improvement by improving the quality of faculty, refining teaching-learning methods, creating research facilities with effective industry interaction, and supporting facilities on the campus.
- AIET, which has been approved by the AICTE, New Delhi, and is permanently affiliated to the Jawaharlal Nehru Technological University, Kakinada (JNTUK), began operations in 2005, with 240 students and has since expanded to include 146 staff members and 2407 students.
- IQAC is the monitoring mechanism that oversees the Quality level to improve the systems. and processes
- The institution has been accredited by NAAC "B++" Grade with a CGPA of 3.0 in September 2018.
- The institution has obtained ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018 and has been subjected to an Academic and Administrative Audit (AAA audit) by internal and external expert members.
- The institution has been selected as a participative institution by MHRD and UBA scheme.
- The signing of MoU with foreign institutions like the PEGA University, USA, for knowledge sharing and training facilitates the creation of the right learning ambiance. Interaction of students and faculty with various industries has been promoted through MoUs.
- The Computer Science and Engineering department has the research center approved by Jawaharlal Technological Technological University Gurajada, Vizianagaram.
- Providing affordable education to the socially underprivileged and disadvantaged sections of society is one of our best practices.
- A sound mentorship program and conducting of remedial and backlog Classes for underperforming students is another best practice.
- The provision of free transportation for all the staff is also among our best practices.

Concluding Remarks :

- Avanthi Institute of Engineering and Technology (AIET), under the aegis of Avanthi Educational Society, is committed to serving society.
- AIET has been running successfully since its year of establishment in 2005, with the support of well-qualified and committed faculty, for the last 18 years, serving the needs of the people in and around this area, besides extending its research to other districts.
- The college has a motto of providing quality engineering education through well-defined teaching-learning methodologies. It follows the curriculum of JNTUK, Kakinada in a highly disciplined environment and is committed to providing all requirements in curricular and co-curricular activities to the students and making them technically strong with technical knowledge, soft skills, and ethics so as to enable them to become responsible Engineering Professionals with good standards.
- AIET is committed to striving for continuous improvement of its quality management systems for achieving academic of achieving academic excellence. In addition to encouraging students' participation in athletics, the institute promotes the idea of "A sound mind in a sound body". Several awards and recognitions were bagged by present and past students and the legacy will continue in the days to come.

- The Research and Placement cell of the college takes special care to train the students of the disadvantaged sections in collaboration with various organizations.
- AIET has been making concerted efforts to build an inclusive and qualitative organization that produces dynamic and responsible thought leaders for building a strong society and a developed nation.
- The students of AIET are molded into responsible citizens by ensuring their participation in various social service activities. The NSS unit of the college is at the forefront of fulfilling its social responsibility and duty towards the nation through its proactive participation in various activities of social and National Importance. All the students are members of NSS wing of the college.
- This is in line with the objectives of the NEP 2020 and the guidelines of JNTU-GV, AICTE, and UGC.
- Looking at the New Education Policy (NEP 2020) and the emerging industrial requirements, the Institute has a strong Innovation and Entrepreneurship Cell supported by BSNL incubation Center, which inculcates an entrepreneurship mindset among budding engineers.