



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

KOTTARA CHOWKI BOLOOR VILLAGE MANGALURU DAKSHINA KANNADA

KARNATAKA 575006

575006

www.ajiet.edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

A J Institute of Engineering and Technology (AJIET) is promoted by Laxmi Memorial Education Trust® which was established in the year 1991 in memory of Late Laxmi Shetty, mother of Dr. A. J. Shetty, who is the President and Managing Director of the Trust. Laxmi Memorial Education Trust® has a group of Institutions imparting quality education in various fields. Currently, Laxmi Memorial Education Trust® is managing 15 Institutions which are located within the city limits of Mangaluru and providing quality education in the fields of Medical, Dental, Engineering, Paramedical courses, Nursing, Physiotherapy, Business Management and Hotel Management Education. Thousands of economically disadvantaged citizens have benefited from the free medical facilities offered by the trust.

AJIET is affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, and is recognized by AICTE, New Delhi. The Institute started during the year 2016 with five undergraduate programs in engineering with a granted intake of 300 students, and at present offers eight UG programs with an intake of 540 students in engineering namely, B.E. in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Information Science and Engineering, Mechanical Engineering, Computer Science and Engineering (Artificial Intelligence & Machine Learning), Artificial Intelligence & Data Science, Computer Science and Engineering (Internet of Things & Cyber Security including Block Chain Technology) (ICB). The Civil, Mechanical, Computer Science and Engineering, Electronics and Communication Engineering, Information Science and Engineering branches were accredited by the NBA in 2022.

The Institute also offers seven Ph.D. programs at its research centers in the engineering departments of Civil, Electronics & Communication, Mechanical and Computer Science, as well as in the basic science departments of Physics, Chemistry, and Mathematics.

Presently, the Institute has 1250 students enrolled, having highly qualified faculties and staff members. AJIET provides hostel facilities to the students within the campus and well-networked transportation for students and staff.

Our Institution is located at near NH-66 in Kottara Chowki, Mangaluru, Karnataka. The campus is spread over in a lush green campus of 11.059 acres and is conveniently situated about 2 kilometers from the central bus stand, 8 kilometers from Mangaluru Central Railway Station and 12 kilometers from Mangaluru Airport.

AJIET features modern infrastructure with ICT-integrated classrooms, air-conditioned seminar halls and an auditorium. The fully automated library includes a modern digital library facility. The campus also offers a gym, food court and excellent sports facilities. Over the past 8 years, AJIET has demonstrated academic strength through consistently excellent results, a high pass percentage, and one University rank.

Our Institution has well established skill labs - Aero Club, Embedded & Robotic Club, Automotive Club, various innovative clubs such as IoT Club, Radio Club, Eco Club, Industry Institute Partnership Cell (IIC) and Entrepreneurship Development Cell (EDC), Science Club for the benefit of students. To provide wide exposure beyond curriculum to the students AJIET organizes various activities through cultural and technical committees.

A dedicated Training & Placement Center at the Institute provides support and guidance to students and contribute significantly to their professional development and help them with successful careers. Placement & training cell at AJIET organizes placement training, career guidance programs & workshops involving communication skills, group discussions, Technical, Aptitude tests, Mock interviews to enhance students profile.

Vision

To produce top-quality engineers who are groomed for attaining excellence in their profession and competitive enough to help in the growth of nation and global society.

Mission

- To offer affordable high-quality graduate program in engineering with value education and make the students socially responsible.
- To support and enhance the institutional environment to attain research excellence in both faculty and students and to inspire them to push the boundaries of knowledge base.
- To identify the common areas of interest amongst the individuals for the effective industry- Institute partnership in a sustainable way by systematically working together.
- To promote the entrepreneurial attitude and inculcate innovative ideas among the engineering professionals.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- AJIET has very supportive management to create a quality educational and research environment and decentralization is effectively implemented.
- Institute has Excellent Infrastructure which fulfils all the requirements at a professional Institute, has ICT enabled classrooms.
- Undergraduate BE programs of CSE, Civil, ISE, ECE & ME are accredited by NBA during the year 2022 i.e. within a short span of time as the Institute was established during the year 2016.
- Availability of dedicated faculty in all required positions with high qualification and experience is one of the strengths of the Institute.
- Outcome based educational system – NEP as per the University Curriculum is implemented effectively and has a well-established examination system.
- Institute Innovation Cell, IPR Cell and Entrepreneurship Development Cell (EDC) has been established to encourage entrepreneurship and Innovative ideas among the students.
- The Institute has a well-managed placement centre and excellent industry interactions.
- Well-established automated library with adequate volumes, books and Journals compatible with AICTE/VTU requirements.
- Institute has an effective Student mentoring system which helps to improve the student's quality and to effectively monitor the slow and fast learners and make the students stronger to tackle the professional and personal challenges.
- Wide range of extracurricular and co-curricular activities offered through various committees and clubs.

Has good cultural, sports facilities, associations, professional student chapters providing excellent platforms for students to exhibit their talents. Organizes Annual college fest – Aakar in a systematic manner.

- A travel-friendly and eco-friendly campus featuring separate hostels for boys and girls, along with an on-site canteen, ATM, and food court.

Institutional Weakness

- The Institute needs more energy efficient projects to make the college carbon negative.
- The Institute has sufficient number of PhD faculties however, the number of Scopus indexed publications, book chapters and patents received is less.
- The number of faculty participating in national and international professional activities beyond the state is less.
- There is a lack in foreign exchange program.
- There is a lack of students opting for higher studies, research, and competitive exams.
- The effectiveness of alumni interaction with the Institute needs improvement.
- There is a need to deepen industry-academia partnerships in applied research.
- Admissions based on State Government norms result in the admission of some academically weaker students.
- Insufficient focus on interdisciplinary research between departments.

Institutional Opportunity

- To become a leading technical Institution in South Canara region.
- To achieve autonomous Institute status, which presents an opportunity for flexible curriculum design to meet industry needs, fostering innovation, and enhancing industry-academia partnerships.
- To enhance the research profile of faculty, focus on increasing publications and patents, pursuing higher studies and doctoral degrees, and obtaining research supervisor qualifications.
- To initiate incubation centre establishment and enhance skill lab facilities.
- The Institute aims to enhance the quality of skills by increasing Memorandums of Understanding (MOUs) with industries and reputed Universities.
- To enhance interaction through industry-academia collaboration, thereby expanding opportunities for student internships and connections with start-up companies.
- There is ample opportunity to effectively utilize the institutes alumni network for start-up initiatives, skill-enhancement workshops, and as guest speakers at our Institution.
- There is a significant opportunity to enhance student participation in start-ups, project work, and extracurricular activities, promoting practical skills and fostering an entrepreneurial mindset.

Institutional Challenge

- Ensuring long-term sustainability while maintaining high standards in infrastructure and quality education.
- Fostering a research culture among students and faculty while upholding academic excellence.
- The emergence of new private Universities due to technological advancements and Government policies poses significant challenges and competition.

- Enhancing research funding from organizations like DST, DIT, UGC, AICTE, DRDO, ISRO, BARC, and SERB presents a strategic opportunity.
- Ensuring that students become entrepreneurs is challenging.
- Securing high-package placements and drawing major companies for recruitment is proving challenging for a budding Institute compared to established higher educational institutions, private Universities and deemed Universities.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Our Institution is affiliated to Visvesvaraya Technological University (VTU), Belagavi, ensures efficient curriculum design and delivery within the Choice Based Credit System (CBCS). The Academic Committee plans a comprehensive academic calendar aligning with VTU's time-table, comprising course durations, internal evaluations, and Institute events. Department Heads impartially allocate courses to faculty based on expertise and preferences. Course Outcomes (CO) adhere to Outcome Based Education (OBE) standards, mapped with Program Outcomes (PO) and Program Specific Outcomes (PSO). The faculty develops meticulous lesson plans and study materials, with innovative pedagogy and ICT tools. Institute has effective examination system, student feedback, and remedial measures to boost the teaching efficiency.

Students at AJIET are encouraged to enrol in Certificate or Value-Added courses to enhance the skill sets beyond the regular curriculum. These courses provide additional expertise and practical knowledge in specialized areas, enriching students learning experiences and bolstering their career prospects.

Incorporating holistic approach through subjects like ethics, human values, and environmental awareness into the undergraduate curriculum at AJIET fosters students' understanding of societal issues and problem solving. These initiatives address professional ethics, environmental sustainability, and promote gender equity and prepare students as responsible professionals and citizens.

Our Institution emphasizes the importance of practical learning through project work, fieldwork, and internships. Students engage in hands-on experiences that complement theoretical knowledge, preparing them for real-world challenges. These opportunities allow students to gain valuable skills, industry exposure, and professional networks essential for their future careers. Department wise feedback is obtained and analysed semester wise.

Teaching-learning and Evaluation

AJIET imparts quality education with effective teaching – learning system where Outcome Based Education Framework (OBE) is implemented in all applicable programs and offers several opportunities to students to develop their skills.

The Institute ensures transparency in the admission process and ensures the enrolment of students through a well-structured and transparent admission procedure. The admission process ensures inclusion of students from all categories following the Karnataka State Reservation Policy.

AJIET ensures the growth of students in multidisciplinary aspects, Institute has adopted various approaches to

augment the learning experience of the students. In addition to existing teaching learning methods, leveraging ICT-enabled learning tools allows faculty to deliver interactive lectures and effectively demonstrate course content. Digital classroom platforms such as Google Classroom are utilized for delivering learning resources. For effective and efficient delivery of curriculum, various committees are formed for smooth conduction of academic activities and has reforms in the examination system for the effective evaluation system. IQAC sets the benchmarks for the processes and corresponding outcomes.

The Institute systematically maintains attainment of outcomes and reviews the Teaching- Learning strategies. Regular academic audits are conducted to ensure the faculty efficiency with respect to teaching methodologies. Alumni association is actively involved in enhancing the Alumni – Institute interaction. To ensure proper teaching and learning, effective feedback mechanisms are formulated. Slow learners are identified and provided with additional coaching, assignment, and test by the course handling faculty members and their progress is continuously monitored by their mentors. The College has a high percentage of full-time teachers out of the total sanctioned posts. The faculty is young and dedicated, full of potential to achieve higher academic growth.

Research, Innovations and Extension

Institute organizes the various talks and activities to develop scientific temper and innovation amongst the students. The Institute has digital library, research journal subscriptions, computing & IT infrastructure to carry out the research work. Extension activities, which focuses on holistic and overall development of the students and nearby communities, are organized under the auspices of various student clubs, Association chapters, Entrepreneurship cell, committees etc. The Institution motivates faculty members and students to present and publish papers in National/International Seminars and Conferences, reputed journals. Institute has a research and development committee to promote research activities in all departments. The Institution encourages extended learning for the faculty and deputes them for various FDP's and workshops. The Institution also insists all the faculty register for NPTEL and related activities to know the present scenario of the Education world. The College encourages and supports the teachers to undertake doctoral studies and quality research publications along with research projects through various Government and Non-Government funding agencies. Institute has Research Centers in Engineering Departments of Civil, Electronics and Communication, Mechanical, Computer Science, along with the Basic Science Departments Physics, Chemistry and Mathematics.

Infrastructure and Learning Resources

The Institute has an excellent infrastructure, and the campus is nestled within the city range of Mangalore. The Institute has advanced modern infrastructure which includes the fully automated library as a learning resource Centre. The central library is well stocked with books and equipped with all digital facilities like e-books and journals, with separate reading section.

The Institution features well-equipped classrooms and advanced laboratories that cater to diverse learning needs, fostering an engaging teaching-learning environment. Students enhance their technical skills through interdisciplinary technical clubs and improve their computational and communication abilities in the computer center and language lab. The campus offers separate hostel facilities for boys and girls, accommodating up to 600 students. Additional amenities include a cafeteria, ATM, restrooms for both genders, a sick room, ambulance services, cultural facilities, and a gymnasium. The Institute offers a spacious playground and indoor game facilities on campus to support a wide range of extracurricular activities. These facilities contribute

significantly to the overall development of students. All departments are equipped with desktop computers connected to the campus network, along with laser printers for their operational needs. LCD projectors are available in all ICT enabled classrooms. Conference and seminar halls consist of computers with internet and LCD Projectors.

Student Support and Progression

At AJIET, prioritizing student support is ingrained in the Institution's ethos. Management diligently oversees all relevant activities to engage stakeholders such as parents, society, industry, students, and alumni in the Institute's endeavours. The Institution wholeheartedly supports students in their academic endeavours, guiding them to meet their academic and personal goals. To provide comprehensive support, the Institute offers a wide range of scholarships and free ships to the students. The Students have access to all Government schemes and receive regular updates on important notifications.

Career counselling and guidance are provided to all students, encouraging them to pursue competitive exams for their advancement. The Placement and Training Department plays a crucial role in facilitating timely placements by inviting a diverse range of companies to the campus for recruitment purposes. Additionally, through MOU's with the various industries and Institutions, students participate in seminars/workshops, Internships gaining invaluable knowledge. Mentoring for higher studies abroad, including at NITs and other Universities, are actively promoted.

A range of support services, including an anti-ragging cell, a student grievance, and redressal cell, and internal compliance cell a mentoring system, creates a conducive environment for students to excel in their academic pursuits and promotes overall well being.

Students enjoy extended access to library and gym, sports facilities beyond college hours, catering to their academic and recreational needs. The cultural and technical committee ensures the smooth organization of students to participate at State/University/National level events, and inter and intra-collegiate competitions, catering to diverse interests and needs.

Governance, Leadership and Management

Governance: At AJIET, the governance structure is primarily overseen by the Board of Governors/ Governing Council, responsible for defining the Institution's strategic direction and policies. The Board of Governors/ Governing Council also oversees the college operations to make sure they are in pathway with its vision, mission, and values. Governance extends to several committees overseeing different facts including academic affairs, finance, and compliance. Guided by principles of transparency, accountability, and stakeholder engagement, these processes uphold the Institution's integrity and effectiveness.

Leadership: Our Institution is led by a team of key individuals including the President, Vice- President, Principal, Vice-Principal, and Dean. These leaders offer vision, direction, and strategic planning to lead the Institution to meet its objectives. Under the effective leadership of the Principal an environment is cultivated that promotes a culture of innovation, inclusivity, and collaboration among faculty, staff, students, and various stakeholders. Faculty empowerment is achieved by providing opportunities for professional development, granting academic freedom, and involving them in decision-making processes. Welfare measures are meticulously outlined by IQAC, communicated and implemented through regular circulars and discussions by

HODs.

Management: AJIET is managed under the aegis of the Laxmi Memorial Educational Trust, and the management oversees the daily administration and operations essential for facilitating teaching learning process and the research. The management also encompasses tasks such as resource allocation, budgeting, financial management, human resources, infrastructure development, and maintenance. Effective management practices are aimed at optimizing resource utilization and delivering high-quality services to both students and faculty. Prioritization is given to efficient financial management and resource mobilization, with regular audits ensuring accountability and transparency.

Institutional Values and Best Practices

At AJIET, the management steadfastly upholds Institutional values through best practices. Since its establishment, the Institution has consistently promoted equal opportunities across admissions, training, research, and placement processes irrespective of caste, creed and gender.

The campus at AJIET has embraced sustainable practices by harnessing solar energy, sensor based LED bulbs to conserve energy. An energy audit has been conducted, and the shortcomings have been addressed. Water conservation facilities like rain water harvesting to recharge the ground water level has been initiated. A sewage treatment plant is available in the Institution. An Eco Club and NSS unit collaborate to oversee all green activities and initiatives within the campus and beyond. A barrier-free environment catering to the needs of disabled individuals is ensured through the provision of ramps, lifts, separate washrooms.

The Institution maintains a comprehensive code of conduct policy to ensure inclusivity and adherence among all individuals within the college community. The Anti-Ragging Committee, Discipline Committee, and Women's Welfare Committee are steadfastly committed to upholding the highest ethical standards and best practices within the Institution.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	A J INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	KOTTARA CHOWKI BOLOOR VILLAGE MANGALURU DAKSHINA KANNADA KARNATAKA 575006
City	MANGALURU
State	Karnataka
Pin	575006
Website	www.ajiet.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	SHANTHAR AMA RAI C	0824-2455048	9480065081	0824-286220 5	ajenggcollege@gmail.com
IQAC / CIQA coordinator	ANTONY P J	0824-2862212	9741489242	0824-286220 5	antonyjohn@ajiet.edu.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	Yes MINORITY CERTIFICATE.pdf
If Yes, Specify minority status	
Religious	
Linguistic	Tulu Linguistic Minority
Any Other	

Establishment Details				
State	University name	Document		
Karnataka	Visvesvaraya Technological University	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	02-06-2023	12	We already received EoA from AICTE for the Current Academic Year two thousand twenty-four twenty-five

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?	Yes
If yes, name of the agency	National Board of Accreditation
Date of recognition	08-02-2023

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	KOTTARA CHOWKI BOLOOR VILLAGE MANGALURU DAKSHINA KANNADA KARNATAKA 575006	Urban	11.059	41426

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Co course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering,	48	PUC	English	63	24
UG	BE,Computer Science And Engineering,	48	PUC	English	126	125
UG	BE,Electronics And Communication Engineering,	48	PUC	English	63	62
UG	BE,Information Science And Engineering,	48	PUC	English	63	63

UG	BE,Mechanical Engineering,	48	PUC	English	63	48
UG	BE,Computer Science And Engineering Artificial Intelligence And Machine Learning,	48	PUC	English	63	62
UG	BE,Computer Science And Engineering Iot And Cyber Security Including Block Chain Technology,	48	PUC	English	63	61
UG	BE,Artificial Intelligence And Data Science,	48	PUC	English	63	63
Doctoral (Ph.D)	PhD or DPhil,Ph D,	48	Post Graduate	English	22	7

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	8				19				55			
Recruited	7	1	0	8	13	6	0	19	16	39	0	55
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				22
Recruited	8	14	0	22
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				30
Recruited	14	16	0	30
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.	7	1	0	11	6	0	0	0	0	25
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	2	0	0	16	39	0	57
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	Others	Total
		1	2	0	3

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	617	181	0	1	799
	Female	398	53	0	0	451
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	3	1	0	0	4
	Female	3	0	0	0	3
	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	16	2	2	0
	Female	7	0	3	0
	Others	0	0	0	0
ST	Male	2	0	0	0
	Female	6	0	2	0
	Others	0	0	0	0
OBC	Male	20	9	5	0
	Female	17	4	6	2
	Others	0	0	0	0
General	Male	168	103	114	79
	Female	122	64	71	51
	Others	0	0	0	0
Others	Male	107	65	62	48
	Female	43	14	17	19
	Others	0	0	0	0
Total		508	261	282	199

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>The main Vision of National Education Policy is to provide holistic education to create the youths as responsible global citizens. The affiliated University - VTU has initiated steps inline with NEP. NEP aims to add diversity to curricula and teaching methods using technology. In line with the NEP, the University has introduced interdisciplinary subjects that connect various departments, enhancing current research and academic programs. All programs are designed to provide students with the flexibility to choose elective courses from other departments, while the Institution currently promotes interdisciplinary project-based learning for all students. The Institution offers various undergraduate engineering programs, providing multidisciplinary education in different streams. The Institute follows a Choice Based Credit System (CBCS), where each course has a specific number of credits and is designated as core, professional elective, open elective, skill based, or value based. The Institute incorporates experiential learning through projects, field visit, industrial visits, and internships. As an affiliated Institution, the Institute follows the guidelines established by the VTU. Institute has research centers in various departments and encourages research students to conduct interdisciplinary research and innovations to provide best solutions to current challenges. Effective curricular implementation contributes to the students' overall growth and aims to improve the social, physical, intellectual, emotional, and moral dimensions of students in an integrated manner.</p>
2. Academic bank of credits (ABC):	<p>The Academic bank of credits (ABC) regulations aim to facilitate blended learning by allowing students to obtain credits from various HEIs registered under this scheme and through an online library of courses like SWAYAM and NPTEL. To participate in the Academic Bank of Credits, each student must have access to an individual Academic Bank Accounting digital form and a unique ID (SOP). The ABC system, in accordance with university guidelines, enables students to earn credits from several integrated and core courses, open elective courses, internships, projects etc., AJIET has initiated the registration process for ABC account since 2022-2023. The college emphasizes student centric learning and encourages students to enroll for various</p>

	<p>certification courses. The Institution is open to create the digital infrastructure proposed by NEP to store its students' academic credits earned from various higher education Institutes within the country. The ABC system allows lifelong learning by enabling individuals to continuously update their skills, pursue new interests, and achieve higher qualifications without starting from scratch, which is essential in rapidly changing job markets.</p>
<p>3. Skill development:</p>	<p>Our Institution is dedicated to enhancing students' vocational education and soft skills in alignment with the National Skills Qualifications Framework and the National Education Policy (NEP). By adhering to the VTU curriculum and guidelines, we emphasize equipping students with crucial communication skills. and career guidance through skill development workshops. Our primary objective is to boost students' employability, ensuring they are ready to meet industry demands and effectively contribute to skill requirements. We provide comprehensive training in various technical fields, supported by hands-on projects and certification opportunities to strengthen practical experience and technical expertise. Simultaneously, we emphasize the development of crucial soft skills such as interpersonal communication, collaboration, analytical thinking, and adaptability through workshops and collaborative activities. A holistic approach through NEP is followed which ensures that graduates are well-prepared to excel in their careers and adeptly navigate the constantly changing demands professional world. Placement training is provided during 4th, 5th, and 6th semesters and regular internships in companies that have Memorandums of Understanding (MOUs) with our Institute the like Octawave Technology and Innovation Hub, NASSCOM (IT-ITeS Sector Skills Council), Virtual Lab NITK, Kakunje Software Pvt Ltd, Juego Studios Pvt Ltd, Marian constructions, in Bengaluru and Mangaluru. All departments offer Ability Enhancement Courses (AEC) conducted by in-house faculty and vocational training led by industry experts, both focused on improving software skills and keeping up with the latest technological advancements. Additionally, mini projects, major project exhibitions, science model presentations, ideathons, and code combats are regularly organized</p>

	<p>to further enhance students' technical proficiency. The Institute has arranged numerous events through its EDC cell to integrate innovation into the teaching curriculum. Through this initiative, industry experts have interacted with students, and numerous events, such as ideathons, entrepreneurship workshops, and career-related activities, have been organized. The following Skill labs have been set up in the institution in view of improving the skills of the students so as to make them ready for intercollegiate competitions and to be industry ready. • Embedded and robotics club/lab • Research and Innovation club/lab • Aero club/Lab • Automotive club/Lab • IoT and developer's community club</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The Indian Knowledge System (IKS) reflects centuries of wisdom in philosophy, science, medicine, and the arts. Faculty are encouraged to teach in English or Kannada and attend language enhancement seminars. The Institute integrates IKS by requiring first-year UG students to take credit courses in Samskruthika Kannada or Balake Kannada, aligning with the VTU curriculum. Seminars on Sanskrit's importance have been delivered, and student competitions in essay writing and elocution are conducted in Kannada and English. Activities like skits and variety shows in local languages are encouraged, and students chant devotional songs in Sanskrit, Kannada, or Hindi before formal functions. Faculty are also encouraged to explain concepts in the local language during classes. Industrial visits to historical sites, heritage villages, water management communities, and low-cost construction sites integrate IKS into the curriculum. Students and faculty have attended workshops at Ramakrishna Mission and also talks from Ramakrishna Mission and Hare Rama Hare Krishna foundation were organized. Female faculty members are encouraged to engage in women empowerment programs. The following initiatives aim to align with ancient Indian traditional knowledge: • Students are encouraged to take up yoga sessions. • Students are given knowledge delivery on the traditional methods of ayurveda, self-care and self-healing. • Students are encouraged to execute projects on traditional practices of low-cost water harvesting structures. • Students are encouraged to execute projects on traditional</p>

	<p>practices of construction of green buildings, air cooling and air circulation in buildings. Art forms like Yakshagana, Bharatanatyam, Kuchipudi, tiger dance of the local region is encouraged during several college events and college functions. The college organizes vibrant events such as food walks, local cuisine competitions, and Ethnic Day celebrations, infusing the campus with enthusiasm and cultural richness. Festivals like Ayudha Pooja and Onam are commemorated with grandeur and fervor, adding to the festive spirit of the Institution. To help students embrace Indian culture and tradition, the annual college fest Aakar features competitions in Indian mythology, classical music and dance, rangoli, face painting, and clay modeling. The Institute celebrates Kannada Rajyotsava on November 1st each year to commemorate the formation of Karnataka state. Since 2016, the Institute has integrated Outcome Based Education (OBE) to prioritize student-centered instruction with clear objectives. Departments create Program Educational Objectives (PEOs) and Program Specific Outcomes (PSOs) aligned with the Institute's vision and mission. Course Outcome (CO) statements align with the 12 Program Outcomes (POs) of the National Board of Accreditation. Assessments and student feedback ensure attainment of learning outcomes. Departments bridge curriculum gaps with industry activities and monitor effectiveness via Department Advisory Board, Program Assessment Committee, and Academic Audit Committee, established according to guidelines from the Institute's Internal Quality Assurance Cell (IQAC); five programs earned NBA accreditation in 2022.</p>
5. Focus on Outcome based education (OBE):	<p>Since 2016, the Institute has integrated Outcome Based Education (OBE) into its teaching-learning process, prioritizing student-centered instruction with clear objectives regarding the knowledge, skills, and attitudes expected of Graduate Engineers upon completing a four-year program. The department's Vision and Mission align with those of the Institute, and each department develops Program Educational Objectives (PEOs) and Program Specific Outcomes (PSOs) to fulfil its overarching vision and mission. Additionally, Course Outcome (CO) statements are formulated for every course, aligning with the 12 Program Outcomes (POs) established by</p>

	<p>NBA/Washington accord. Through both formative and summative assessments, the program sets target levels and measures attainment levels, not only for individual courses but also for POs and PSOs across the program. To address the curriculum gaps and meet Program Outcomes (POs), various activities such as site visits, industry tours, technical talks, seminars, and workshops are organized by each department. To evaluate the effectiveness of the teaching-learning process and implement improvements, departments form a Department Advisory Board, a Program Assessment Committee, and an Academic Audit Committee, following the guidelines set by the Internal Quality Assurance Cell (IQAC) of the Institute. In 2022, all five programs - Civil Engineering, Mechanical Engineering, Computer Science, Information Science and Engineering, and Electronics & Communication - received accreditation from the National Board of Accreditation (NBA), New Delhi. Institute implements an outcome-based education it involves defining clear learning outcomes, ensuring alignment between instruction and assessment. Institute strictly adheres to the VTU curriculum using various assessment methods like internal assessment, quiz, assignments and seminars. Student feedback is collected for each course; it directly reflects how well the learning outcomes of that course is achieved.</p>
6. Distance education/online education:	<p>The e-Shikshana program by VTU is an advanced e-learning platform that lets course experts interact with students from different colleges in real-time using live streaming and synchronized content sharing. Students at the Institute are instructed to access the comprehensive course materials, comprising videos and notes, provided through the VTU e-Shikshana program. As a part of this initiative, Dr. Amarnath Shetty, a Professor in the Department of Civil Engineering, has contributed video lectures focusing on the course Solid Waste Management. The vision and mission of both the Institute and the departments are in harmony, each committed to continually improving teaching and learning endeavours by use of technological tools. Institution is increasingly integrating various technological solutions to enhance the effectiveness of educational practices. It includes a wide range of applications, including multimedia presentations,</p>

interactive simulations, virtual laboratories and communication platforms. AJIET, affiliated with VTU, adheres to VTU's ABC regulations for undergraduate students. According to this policy, students may be conferred with a BE (Honors) degree if they maintain a minimum CGPA of 8.5 up to the 4th semester and accumulate 18 credits from online courses provided by NPTEL and the SWAYAM MOOCs platform before program completion. The Institute encourages students to enroll in NPTEL online courses to bolster their self-learning capabilities and stay abreast of contemporary technological advancements. Additionally, students are encouraged to use SWAYAM PRABHA, a series of DTH channels that broadcast educational content 24/7 nationwide. The Institute also plans to implement a blended learning approach in the future, using a Learning Management System (LMS) for course delivery. Recorded live lecture videos will be recorded and made available on the Institute's website, empowering students to grasp concepts at their own pace. During the pandemic, the Institute swiftly responded to the challenges by creating various online platforms to ensure the uninterrupted continuity of the teaching and learning process. Recognizing the urgency of the situation, the Institute leveraged technology to establish virtual classrooms, online discussion forums, and digital libraries. These platforms enabled students to access course materials, engage in interactive lectures, collaborate with peers, and receive academic support from faculty members remotely. By adapting to the new circumstances and embracing online learning modalities, the Institute demonstrated resilience and commitment to providing quality education despite the disruptions caused by the pandemic.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?

Yes The Electoral Literacy Club (ELC) was established in our Institution during the academic year 2021-22, marks a significant step in engaging college students in understanding their electoral rights. Over the past four years, the ELC has served as a dynamic platform, fostering student involvement

	<p>in various activities. Awareness among students and faculty about their electoral rights, familiarizing them with voter registration and ballot casting procedures was done timely in the Institute.</p>
<p>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?</p>	<p>Student coordinators and coordinating faculty members are appointed by the college to oversee the fully operational Electoral Literacy Clubs (ELCs) from the year 2021. These clubs prioritize inclusivity, striving to ensure that a wide range of perspectives and voices are represented in their activities and initiatives. Students have visited nearby communities for election awareness. Under the Letter awareness abhiyan the hostel students have sent letter to their parents explaining the importance of casting their vote. The entire process was organized and carried out under the supervision of the ELC.</p>
<p>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.</p>	<p>The Principal and faculty coordinator of ELC has attended the program conducted by District Election Administration for conduction of poll. Under their guidelines various events were conducted in the Institute to actively foster sensitization among students and employees such as Constitution Day, Youth Day celebration in association with local bodies, Voters Awareness Program, Legal Awareness Program, and Voters Registration Drive. These initiatives aim to instill values, rights, duties, and responsibilities of citizenship.</p>
<p>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.</p>	<p>The following activities were conducted in the campus to support the electoral process and uphold the democratic values by motivating the students above 18 years to cast their vote. 1. Pledge on National voters' day and collage competition -25/01/2022 2. Voter's enrolment drive was conducted on 30/12/2021 3. With the constitution of ELCs the college has undertaken additional activities and initiatives to establish mechanisms for registering eligible students as voters. 4. Under the Unnath Bharath Abhiyan our students have visited villages to bring out awareness of casting their votes during the election. 5. Under the umbrella of 'Azadi Ki Amruth Mahotsav' events such as Swatch Bharath Abhiyan, Cultural dance program, Freedom run, Har Ghar Thiranga were conducted for the students in the year 2022.</p>
<p>5. Extent of students above 18 years who are yet to be</p>	<p>Electoral Literacy Club has worked towards</p>

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.

collection of data of all the students above Eighteen years who are yet to be enrolled as voters in the electoral roll and guided them towards the registration of voters ID as soon as they are 18yrs. Electoral Literacy Club ensures that students are enrolled as voters by organizing voters enrolment drive at the Institute level. Faculty members of the respective committees give clear demonstration and hands on practice to enroll by explaining the procedure to fill the details in the Voters helpline App making sure students enroll on the spot using the mobile Voters ID App.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
1250	1045	1052	968	859

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: 112

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

2023-24	2022-23	2021-22	2020-21	2019-20
82	71	67	65	66

3 Institution

3.1

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

2023-24	2022-23	2021-22	2020-21	2019-20
1088.16	874.43	242.64	218.72	647.19

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:

AJJET, is affiliated to Visvesvaraya Technological University (VTU), Belagavi, has a clearly defined and documented framework in place to assure efficient & effective curriculum is designed to deliver for the benefit of student's community. The Institute adheres to VTU's Choice Based Credit System (CBCS) scheme. The Academic Audit Committee publishes a college academic calendar of events, comprising course details and internal assessments for theory and lab courses, every semester that is in line with the University schedule. Student activities, graduation day, sports day, and the Annual fest AAKAR are included in the Institute Academic Calendar including the holidays. Department-specific calendars are made in accordance with the National Education Policy (NEP) and the Institute's time-table, facilitating extracurricular activities and curriculum enrichment.

The Heads of Departments (HOD's) assign the courses (theory and laboratories) to the faculty members without favouring any one group over another by considering their areas of specialization and skill, in addition to their personal preferences, at least one month earlier to the commencement of forthcoming semester. Course Outcomes (COs) are defined by the Course Instructor and Domain Coordinator in accordance with the standards of Outcome Based Education (OBE) and are mapped with Program Outcomes (POs) and Program Specific Outcomes (PSOs). After verification and confirming the Course Outcomes (COs) and their mapping, the Department Advisory Committee (DAC) receives final approval from the Program Assessment Committee (PAC). This will assure a comprehensive assessment of the overall accomplishment of the Program Specific Outcomes (PSOs) and Program Outcomes (POs).

Based on the credits awarded for each course, the department prepares a schedule that includes time slots for remedial classes and certification programs, as well as theory and lab courses and project work. The course instructor prepares a thorough lesson plan and study materials, including lecture notes, a question bank, assignments and laboratory manuals that concentrate on OBE, after receiving approval and evaluation from the HOD. The faculty then uses modern Teaching-Learning methodology to deliver the course in accordance with the lesson plan. The HOD periodically verifies that all courses are covered and that the academic schedule is adhered too. This is done frequently reviewing student feedback and their performance in the Continuous Internal Evaluation (CIE) and implementing corrective measures as needed. VTU conducts the Semester End Examination (SEE) as per its schedule. Each department will thoroughly analyse examination data once the SEE results are announced in order to assess the academic achievement of the students.

In addition to conventional classroom teaching, students are facilitated with industry-certification programs, workshops, and problem-solving sessions to improve industry-related skills. Regular reviews of the efficacy of course delivery is monitored by the HOD in collaboration with concerned educators

and stakeholders. Additionally, the course instructor uses their ongoing internal evaluation to identify whether students are quick and slow learners. For slow learners, remedial instruction and counselling are offered as additional support, while quick learners are urged to continue their education through self-study activities.

File Description	Document
Upload 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: 40

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: 43.68

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

2023-24	2022-23	2021-22	2020-21	2019-20
877	397	367	328	291

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:

Educating students to wider societal problems can be achieved by incorporating socially important cross-cutting subjects related to ethics, human values, and environmental awareness into undergraduate degree curriculum. Through the integration of these subjects into other courses, students acquire not only the technical skill sets but also an in-depth understanding of their roles as professionals and citizens.

Professional Ethics & Human Values:

In order to address professional ethics and human values, the engineering program offers courses including "Constitution of India, Professional Ethics" "Management & Entrepreneurship for Industry", "Universal Human Values" and "Major Projects". These primary objectives of these courses are to give students a solid grasp of the constitution, civic obligations and rights, professional ethics, and the roles and responsibilities of engineers. The curriculum also attempts to enhance knowledge of digital crimes and laws. Students participate in a Student Induction Program during their first year of undergraduate study, wherein topics such as professional ethics and human values are highlighted.

Environment and Sustainability:

During fifth semester the students study the course "Environmental Studies," which covers all aspects of sustainability and the environment. This course emphasizes the value of sustainable development while attempting to improve students understanding of ecological and environmental challenges.

Gender equity:

Our Institution is committed to offering high-quality education to train and mould the next generation of

global leaders and firmly feels that gender parity is a necessary component of a nation's sustainable growth. The Institute has taken a number of proactive steps, both in the curriculum and through extracurricular activities, to raise awareness and encourage gender equity among all stakeholders.

The Institution promotes equal participation of both genders in leadership positions within class and college-level committees, as well as in academic and extracurricular activities, in order to promote gender equity among students. In addition, planned efforts are made to foster a welcoming atmosphere free from gender prejudice, encourage to give respect to one another among all participants.

File Description	Document
Upload Additional information	View Document

1.3.2

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

Response: 43.04

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

Response: 538

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: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

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
Provide Links for any other relevant document to support the claim (if any)	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 88.45

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

2023-24	2022-23	2021-22	2020-21	2019-20
508	261	282	199	289

2.1.1.2 Number of sanctioned seats year wise during last five years

2023-24	2022-23	2021-22	2020-21	2019-20
540	300	300	300	300

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](#)

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: 66.43

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

2023-24	2022-23	2021-22	2020-21	2019-20
218	94	97	69	90

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

2023-24	2022-23	2021-22	2020-21	2019-20
273	144	146	146	146

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: 15.24

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:

The teaching-learning process at AJIET is designed to foster an engaging and interactive educational experience, transforming students from passive recipients into active participants. Our Institution is Affiliated to Visvesvaraya Technological University (VTU), Belagavi, AJIET adopts the curriculum prescribed by VTU, ensuring that the program curriculum adheres to the scheme and syllabus set by the university.

At AJIET, the teaching methodology is anchored in a student-centered approach, which leverages Information and Communication Technology (ICT) to create dynamic and interactive classroom environments. ICT-enabled classrooms facilitate a variety of instructional methods, including multimedia presentations and online resources, which cater to diverse learning styles and make complex concepts more accessible.

The Institution emphasizes collaborative learning through group discussions, peer learning, seminars, and mini-projects. These activities are designed to engage students actively, encouraging them to think critically and solve problems collectively. By participating in these group activities, students gain valuable insights from their peers, enhancing their understanding and involvement in the learning process.

Interactive multimedia tools play a significant role in the educational experience at AJIET. These tools, which include simulations, educational videos, and interactive software, support a more engaging and effective learning environment. In addition, industrial visits and fieldwork are integral parts of the curriculum, providing students with real-world exposure and practical knowledge that complements their theoretical studies.

Tutorial sessions are specifically crafted to promote participative learning. These sessions offer personalized attention, allowing students to engage more deeply with the material and seek clarification on challenging topics. This approach helps ensure that students are actively involved in their learning process and can address any difficulties they encounter.

AJIET also encourages students to pursue online certification courses from platforms such as NPTEL and Coursera. These certifications will supplement traditional textbook learning, offering additional knowledge and skills that are relevant to current industry trends and technological advancements. This approach helps students to stay abreast of the latest developments in their fields and enhances their overall educational experience.

Departmental laboratories at AJIET provide practical, hands-on experience that is crucial for applying theoretical concepts. Through lab sessions and manuals, students gain practical skills and insights that are essential for their future careers. This experiential learning not only reinforces their understanding but also prepares them for real-world challenges.

The Institution's assessment strategy includes internal assessments, assignments, and forum activities. These assessments are designed to evaluate students' grasp of the material while also developing their research capabilities, boosting their confidence level and refining their writing skills. Regular feedback from internal assessments helps students to identify the areas for improvement and track their progress.

In summary, the teaching-learning process is characterized by a blend of interactive and participative

methods, aligned with the curriculum and syllabus set by VTU. By integrating technology, fostering collaboration, providing practical experiences, and emphasizing continuous assessment, AJIET ensures a comprehensive and effective educational experience that prepares students for successful careers in Engineering and Technology.

File Description	Document
Upload 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: 100

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

2023-24	2022-23	2021-22	2020-21	2019-20
82	71	67	65	66

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	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: 31.05

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

2023-24	2022-23	2021-22	2020-21	2019-20
28	22	22	19	18

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

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 Internal Assessment (IA) is a critical component of evaluating students' performance at AJIET. It serves to gauge students' understanding and capabilities throughout their learning journey, providing both students and faculty with insights into their academic progress. As an affiliated institution of VTU, Belagavi, AJIET adheres strictly to VTU's guidelines and methods for continuous internal evaluation. This structured process ensures fair and thorough assessment practices, contributing to an effective learning environment.

The IA process at our institution is meticulously designed to facilitate accurate and smooth evaluations. The process is structured as follows:

- **Scheduled IA Tests:** The IA tests are conducted as per the calendar of events, normally in the 5th, 10th, and 13th weeks of the semester. This scheduling allows for regular assessment intervals, giving students multiple opportunities to demonstrate their understanding throughout the semester, and ensures that assessments are spaced to allow students to assimilate and reflect on their learning progressively.
- **Preparation of Question Papers:** Once the defined percentage of syllabus portions is covered, respective course coordinators prepare the question paper for their course along with the scheme and solutions. This ensures that assessments are relevant and reflective of the students' learning at that point in the semester.
- **Scrutiny and Approval:** The question papers and evaluation schemes are scrutinized by a committee comprising the domain coordinator and the Head of Department (HOD) to verify:
 - **Portion Coverage:** Alignment with the syllabus portions covered.
 - **Question Paper Pattern:** Validation of the format and structure.
 - **Duration of the Test:** Confirmation that the time allotted is adequate.
 - **Marks Distribution:** Verification of fair allocation reflecting the importance of each Course Outcomes.
 - **Course Code/Title:** Checking for accurate identification of the subject.

- **Course Outcomes:** Ensuring alignment with intended learning outcomes.
- **CO-PO Mapping:** Verifying articulation between Course Outcomes (CO) and Program Outcomes (PO).
- **Revised Bloom's Taxonomy Levels:** Ensuring questions cover different cognitive levels.
- **Scheme of Evaluation:** Checking clarity and fairness of the evaluation criteria.
- **Test Monitoring:** During the tests, the Institute's test-monitoring committee conducts random visits to ensure discipline and smooth test conduction, promoting impartial assessments.
- **Evaluation and Feedback:** Blue books are evaluated by the course coordinators within a week, using the approved scheme and solutions. Faculty provide detailed comments on answers, discuss the evaluation scheme in class post-evaluation, and encourage students to report any discrepancies to ensure transparency.
- **Communication of IA Marks:** IA marks are communicated to parents through the ERP system, enabling real-time tracking of academic performance and reinforcing transparency.
- **Counselling and Mentoring:** Each student is assigned a faculty counsellor for regular meetings to provide guidance on academic challenges and personal concerns. Slow learners receive additional mentoring, including personalized feedback and improvement strategies. An impact analysis is conducted after each IA to evaluate the effectiveness of these interventions.

By integrating a structured IA process with dedicated mentoring, AJIET ensures a holistic approach to student evaluation and support. This system not only assesses academic progress but also provides personalized guidance, fostering a fair, supportive, and transparent learning environment.

File Description	Document
Upload 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:

At AJIET, the implementation of Outcome-Based Education (OBE) is a cornerstone of the teaching-learning process, ensuring that quality education is provided to students from diverse backgrounds. OBE focuses on aligning educational activities and assessments with clearly defined outcomes, which helps in maintaining high standards of education and achieving continuous improvement. The framework of OBE at AJIET is built upon three key components: Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs). Each of these components plays a crucial role in guiding and assessing student learning and program effectiveness.

Course Outcomes (COs) are specific, measurable, and observable statements that outline what students are expected to learn by the end of a course. COs define the knowledge, skills, and abilities that students should demonstrate upon completing the course. These outcomes are carefully formulated by the course

instructors in collaboration with the Domain Coordinator to ensure they are aligned with both the course content and the broader educational goals of the program. The proposed COs are then reviewed by the Programme Assessment Committee (PAC) and receive final approval from the Department Advisory Committee (DAC).

Programme Outcomes (POs), on the other hand, POs describe the broader knowledge, skills, and attributes that graduates should possess upon completing their degree program. POs are employed by the National Board of Accreditation (NBA) and serve as benchmarks for assessing the overall effectiveness of the educational program. They encompass a range of competencies, including technical proficiency, problem-solving abilities, and communication skills, which are essential for professional success.

Programme Specific Outcomes (PSOs) are tailored to the unique focus of a particular program or department, specifying the specialized skills and knowledge that students are expected to acquire. These outcomes complement POs by providing additional context-specific goals that align with industry requirements and advancements.

The dissemination of COs and POs is a strategic initiative at AJIET to ensure that all stakeholders—students, faculty, and administrative staff—are aware of and understand these outcomes. This transparency fosters a clear understanding of what is expected from both students and faculty, thereby enhancing engagement and alignment with educational goals.

Dissemination of COs and POs is conducted through various channels:

Institute Website: The primary digital platform for communication, where COs and POs are uploaded for easy access by all stakeholders.

Course Files: COs for each course are made accessible to teachers through Course Files, ensuring they are integrated into the course planning and delivery process.

Laboratory Records and Notices: COs are also disseminated through Laboratory records, course notes, and notice boards, ensuring that students are aware of the outcomes they need to achieve.

Departmental Displays: POs are prominently displayed in key locations such as the cabins of Heads of Department, staff rooms, common movement spaces, and laboratories.

Classroom Discussions: Teachers engage students in discussions about POs during class sessions, helping them understand the relevance of these outcomes to their overall learning experience.

File Description	Document
Upload Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words**Response:**

The Course Outcomes (CO), Program Outcomes (PO) and Program Specific Outcomes (PSO) are assessed through assessment tools formatted by the Institute based on following methods.

1. Direct method of assessment
2. Indirect method of assessment

In direct method of assessment following tools are used for assessment of student

1. Summative assessment which includes semester end examination (SEE) having the weightage of 60%.
2. Formative assessment which includes continuous internal assessment (CIE- 75% weightage) and assignment (25% weightage) having the weightage of 40%

The CO attainment is gauged based on the average percentage of marks obtained by students in the SEE. For CIE marks, three IA tests are conducted, each evaluated for 30 marks, along with five assignments evaluated for 10 marks each. A student's CIE marks are the average of IA tests and assignments, totalling a maximum of 40 marks, used to assess individual CO attainment. Benchmarks for CO attainment is shown in Table 1.

Table 1. The

benchmarks used for courses

Course category	Attainment level	Description
For Continuous Internal Evaluation		
EXCELLENT	3	60% of students scoring 60% and above marks in CIE
	2	50% of students scoring 60% and above marks in CIE
	1	40% of students scoring 60% and above marks in CIE
GOOD	3	60% of students scoring 55% and above marks in CIE
	2	50% of students scoring 55% and above marks in CIE
	1	40% of students scoring 55% and above marks in CIE
MODERATE	3	60% of students scoring 50% and above marks in CIE
	2	50% of students scoring 50% and above marks in CIE
	1	40% of students scoring 50% and above marks in CIE
For Semester End Examination		
EXCELLENT	3	60% of students scoring above avg

		of SEE marks of all students
GOOD	2	50% of students scoring above avg of SEE marks of all students
MODERATE	1	40% of students scoring above avg of SEE marks of all students

The indirect assessment of COs is conducted through Course Exit Surveys (CES) specific to each course. CES gathers students' feedback on CO achievement, with at least 60% participation from each course to assess the indirect attainment level of COs. The overall CO attainment level is calculated with an 80% weightage for Direct Attainment and 20% for Indirect Attainment.

Measuring Attainment of POs & PSOs: Each course has a CO-PO-PSO matrix. The average CO attainment level for a specific PO and PSO is used as the attainment for the corresponding POs-PSOs across the program. The same method applies to calculate Indirect POs-PSOs attainment. Direct Attainment is weighted at 80% and Indirect Attainment at 20% to determine the overall attainment of each PO and PSO. CO-PO-PSO attainment is reviewed in the Department Advisory Committee meeting to identify curriculum gaps or establish new benchmarks.

Accountability: Student signatures are collected for each test and during final marks confirmation before uploading to the University Portal, adding accountability and verification. This structured IA process ensures assessments at AJIET align with VTU's standards, fostering a fair and supportive learning environment.

File Description	Document
Upload Additional information	View Document

2.6.3

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

Response: 95.79

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

2023-24	2022-23	2021-22	2020-21	2019-20
195	270	243	178	116

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

2023-24	2022-23	2021-22	2020-21	2019-20
199	293	249	185	120

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

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: 24.64

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)

2023-24	2022-23	2021-22	2020-21	2019-20
3.340	8.105	6.570	3.545	3.075

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:

A J Institute of Engineering and Technology (AJIET) organizes various research activities to develop scientific temper and innovation amongst the students. AJIET encourages research activities through the research centers recognized by VTU, in order to provide the necessary facilities for carrying out experiments and simulations, also to provide a platform for researchers in the field of applied innovations and to increase the knowledge base of faculty leading to overall development of the Institute. We also offer Research centers in Civil, Electronics & Communication, Mechanical, and Computer Science & Engineering, along with the Basic Science Departments like Physics, Chemistry, and Mathematics. The Institute has a well-established digital library, this will provide access to a vast repository of resources, this will support students with easy access to an extensive collection of books, articles, multimedia, and educational resources. Thereby students are able to explore a wider range of topics and materials than a physical library can offer.

The Institution has created an ecosystem for innovation including research centers, Entrepreneurship and Development Cell (EDC) towards the initiatives for a transfer of knowledge, the Institution conducts talks/ workshops/ seminars on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices. Research and innovation were considered pillars for the development of our Institution. The college is continuously striving towards development of a better research ecosystem to yield in-house technology developments. Faculty members are motivated to carry out research work, present and publish scientific research articles in renowned conferences, journals, book chapters and books. In recent years, faculty has shown keen interest in filing patents. Further, seminars, workshops have been arranged to inculcate patent applications and entrepreneurial processes among students and faculty.

In-house Product Development

We have initiated product development activities in the college. Few such products are:

Forklift, Solar Powered Electric Vehicle, Automatic Wheel Chair cum Stretcher, Corn Deseeding Machine with Crusher, Fabrication of Shredder Machine for Recycling of Polyethylene, Fabrication of Coconut Dehusker with Coconut Milk and Oil Extractor, Borescope for Cancer Treatment, Portable Cold Storage, High Surveillance Detector at Bio-Hazard Areas, Video Laryngoscope, Multi-Wavelength Signal Generator for Ophthalmology, 3D Printing and PCB Engraver, Lake Rejuvenation, Pre Plastered Concrete Blocks.

Entrepreneurship Development Cell

Entrepreneurship Development Cell is established for enhancing the relationship between the Institute and industry. By facilitating sponsored research and development projects, seminars, workshops, and many other industrial training programs. This cell identifies industry expectations and develops institutional preparation for satisfying industry needs.

Establishment of IPR Cell:

To provide specialized support and guidance on intellectual property matters, we have established a dedicated IPR cell within the Institution. This cell serves as a resource hub for information on patents, copyrights, and trademarks, offering assistance in filing applications and navigating legal complexities. By facilitating the protection of innovative ideas, the IPR cell encourages a culture of innovation and ensures that creators receive due recognition and benefits.

File Description	Document
Upload 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: 40

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

2023-24	2022-23	2021-22	2020-21	2019-20
18	09	06	05	02

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: 1.19

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
25	33	29	27	19

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: 0.36

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

2023-24	2022-23	2021-22	2020-21	2019-20
9	15	7	8	1

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

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:

Our Institution is actively fostering social connectivity and addressing societal issues by engaging in extension activities within the neighbourhood. Outreach projects and collaborations with nearby groups are among these endeavours. By encouraging accountability and building strong relationships with other organizations, the Institution actively works to improve the community.

The outreach programs conducted in and around the campus makes students understand the need of implementation of technology in day-to-day life. It also helps students to work as a team from planning, execution of the event and communicating with the officials which leads to the overall personality development.

Activities like encouraging the school students to attain good results and enrolment in higher or technical

education were conducted. During school visits, different events are conducted for students to enhance their understanding, skills, and interest in higher education. Events like the importance of higher/technical education, significance of information technology, etc. are conducted to encourage the students for further education. Workshops were initiated in enhancing the knowledge of students towards fundamentals of Arduino programming as a part of outreach activity. Hands-on session was also conducted in writing basic programmes in addition to creating interfaces for various applications like moisture, rain, gas detector etc. Demo-sessions related to the development of 3D engineering models was conducted for Government high school students to create an awareness in 3D printing technology.

From a communal standpoint, these endeavours have resulted in noticeable enhancements to surrounding landscapes and interpersonal harmony. For example, sustainability-related programs have improved neighbourhood cleanliness and increased public knowledge of environmental preservation. By providing community people with useful skills and knowledge, educational outreach programs have promoted a more informed and involved society. Students have also been successful in improving the aesthetic appeal by visiting popular temples, thus initiating a cleanliness drive through maintaining hygiene in and around the place.

Students have fostered interest towards active participation in variety of activities, to gain knowledge of sensitivity in societal requirements. Regarding this, an activity was organized to know the packaging and preserving process in food factory. These kinds of activities enhanced in understanding the need for enclosing the food for the purpose of protection from environmental factors which may cause contamination, damage/decay in the process of transport, storage or selling. Various aspects of food processing, packaging, storage, maintaining quality based standards of hygiene during freezing and canning were the basic highlights propagated during the sessions.

The guiding principle of the campus extension programs is to promote social interaction between students, faculty, and community at large. This helps the faculty members and students be aware of social issues which require the attention of technological Institutions.

File Description	Document
Upload Additional information	View Document

3.4.2

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

Response:

AJIET always motivates faculties and students to participate in various events outside the Institute. Several organisations have recognized the contributions made by the students and faculty members and have awarded them. The following are the awards received.

- Student Technical Recognition Award
- Best Paper Award

- Sustainable life style Award
- Faculty Recognition

The following organisations have recognised the contributions and has appreciated the efforts of the Institution.

- **IFERP:** Institute for Educational Research and Publication (IFERP) provides an opportunity for the Students and Research Scholars to receive financial assistance for their innovative Projects. Students project has won the runner up in IFERP-student project competition and also has awarded the project guide with **Futuristic Technology Award winner -2023.**
- **VTU Recognitions:** The Project Competition 'Avishkar' was conducted by VTU TEQIP 1.3 cell for pre-final year UG students in the 2020. Our students project “Voice Controlled Wheel Chair” was awarded as Best Project. Further in YUKTHI 2024 - a national level Techno cultural fest, where our students were the winners of the events like Code Combat and also proved to be the outstanding achiever during the event
- **KSCST:** The main objective of KSCST's is to promote science and technology in the state by identifying and awarding potential projects. Every year our Faculty / Student projects receive grants for their innovative ideas. Also, our projects were recognised with best paper award and best project awards at the State Level Inter Colligate Fest under various series.
- **CODE UNNATHI:** The innovative projects of students like Vegshell, Laryngoscopy, AI translational devices, Low-Cost Vehicle, Pre-Plastered Concrete Block were recognized by Project code Unnati Start-up Challenge for the year 2022 and 2023. These projects have achieved a remarkable seed money grant for their Start-up works.
- **Institute Innovation Council (IIC):** Students of AJIET have participated and presented in a Two - day International conference organised by Mechanical/Marine/ Aeronautical/ Automobile Engineering department at SIT, Valachil and received the Best Paper Award.
- **The Institution of Engineers (India) [IEI]:** IEI issues membership certification to the eligible engineers, technologists, and scientists. Faculty of AJIET has received a recognition to use the style and title of Chartered Engineer [India].
- **Idea Conclave:** The International Sustainability Awards acknowledges individuals, companies, corporations, programs, and projects that prioritize environmental sustainability. Students have won 3rd prize in the Video competition under Sustainable Lifestyle held during 2nd edition of Idea Conclave for better Mangalore organised by Environmental Management and Policy Research Institute during the year 2023.

Further, our students have participated in various state level events and are recognised/ awarded for their best technical works. Some of them inclusion Envision 2020 @ SIT, Mangalore, TIARA 2024 @ SJEC, Mangalore, Aakrithi 2024 @ CEC, Mangalore, Saavishkar 2024 @ MIT, Kundapura, Sristhi 2024 @ Atria, Bangalore, Techspark 1.0 @ JNNCE, Shimoga, etc.

File Description	Document
Upload 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: 45

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

2023-24	2022-23	2021-22	2020-21	2019-20
8	14	10	1	12

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

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: 21

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

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:

A J Institute of Engineering & Technology (AJIET) was established in 2016 by the Laxmi Memorial Education Trust® in a serene, lush green campus spreading over an area of 11.0592 acres. The vision is to produce top-quality engineers who are groomed for attaining excellence in their profession and competitive enough to help in the growth of nation and global society.

Classrooms:

The classrooms at the Institute are spacious, well-furnished, well-ventilated, and offer excellent visibility. All the classrooms will meet the requirements of AICTE standards, ensuring optimal visibility and exceptional audio clarity.

Laboratories and computing facilities:

The Institution labs are equipped with necessary required equipment's and computing facilities. All computer labs are provided with air conditioning and internet access. The Institution has 887 computers dedicated to academic purposes.

Seminar Halls, Conference Hall and Auditorium:

The Institution has two seminar halls with a seating capacity of 200 seats in each seminar hall. The Seminar halls are being used for conducting guest lectures, FDP, seminars and workshops. We have one auditorium with a seating capacity of 350, all are equipped with ICT tools. It also provides ample opportunity for our staff and students to exhibit their talents in cultural activities and also to organize conference. Further the Institution is having one board room and one conference hall for conducting various Institutional level meeting.

Cafeteria:

The College has two Cafeterias located within the campus that are easily accessible. These cafeterias serve vegetarian and non-vegetarian food in Indian and Chinese style. Cafeterias have good seating capacity with necessary adequate facilities.

Medical Facility:

For higher order care and medical crises, the college has an agreement with the sister concern unit, A J Hospital in Mangalore. A college vehicle is always on standby on campus to address any emergency.

Cultural:

Cultural committee at AJIET ensures in providing a better campus experience by conducting various extracurricular activities in the campus. The Committee is established to promote and organize extracurricular activities, aiming to bring out the best talent at the Institute level.

Sports and Games:

AJIET provides an emphasis for conducting various sports activities as an integral part of the curriculum and aims to produce excellent sports talents at the Institute. Our Institution provides a suitable platform for students in terms of Athletic training, coaching for football, throw ball, basketball, volleyball, cricket teams and fitness through various indoor and outdoor facilities.

Gymnasium:

The equipment needed for a gym is provided in accordance with requirements. The gym's primary goal is to boost students' overall development by exposing them to a variety of workouts that will increase their stamina and level of fitness.

Yoga Hall:

The Institute offers a dedicated yoga hall that enhances general wellness by relieving stress, promoting healthy habits, and improving mental/emotional health, sleep, and balanced life.

Transportation:

The college provides buses to ensure timely transportation for students and staff.

File Description	Document
Upload Additional information	View Document

4.1.2

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

Response: 38.38

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

2023-24	2022-23	2021-22	2020-21	2019-20
449.50	314.77	27.33	3.16	383.96

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:

AJiet Central library with its state-of-the-art infrastructure facilities provides a good academic atmosphere in extending comprehensive and wide ranging services to the users. The total carpet area of the library is 708 sq. mts and can accommodate 232 users at a time. The library has more than 14,166 books including the books pertaining to General Book Bank books and SC/ST Book Bank books. The library has reference of text books, competitive exam books like GATE and CAT, general knowledge books, novels by popular authors and some social impact books, which help students develop an all-round personality. The library has a reading room, a stock area for books, a reference section and a book bank. All the books are categorized and arranged as per Dewey Decimal Classification Scheme (DDC – 23rd edition). Library is provided with CCTV to enable security systems for the detection of any undue incidents.

Journals and magazines:

The Library subscribes to 52 Indian Journals, 16 Technical magazines and 03 International Journals for students and faculty to use for academic reference and research activities.

Digital Library:

AJIET Library has well equipped digital library with 24 multimedia computers that can access to more than 11,000 online journals, more than 21000 E-books, 7,800 abstract articles, remote access facility through K-nimbus, 5,30,000 IEEE proceedings from various publishers, Drillbit Plagiarism Originality online check etc are Available through University Consortium.

NDL membership:

A J Institute of Engineering and Technology is registered as an institutional member of the National Digital Library and NDLI Club, sponsored by the MHRD and designed by IIT Kharagpur.

E-resources available: The Shodhganga@INFLIBNET Centre provides a facility for research students to deposit their Ph.D. thesis and make it available to the entire scholarly community in open access. E-journals and e- books are subscribed under VTU consortium.

Daily usage of the library: On an average, 58 users visit the library daily for their academic and research work.

Library Automation:

Name of the Automation Tool: EASYLIB (Entire Automation System for Libraries). Fully automated Version: - 6.4a

1. **EASYLIB** has been installed to automate all library operations.
2. **Barcode Technology** system is provided for library transactions. EASYLIB, which stands for Complete Automation System for Libraries, is an integrated system that includes all the necessary modules to run a library professionally and efficiently. It operates in a Graphical User Interface (GUI) environment, facilitating easy data access and operation. The system also features a web component that enables sharing of library data across the campus, built-in email and web publishing support. Library members can access library resources through the campus network. EASYLIB adheres to internationally accepted library science standards like MARC, AACR2, ISO 2709 and Dublin Core making it easy to interface with other libraries.

File Description	Document
Upload 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:

Modern IT facilities have been made available to students at the Institute so they can make the most of these resources. It is imperative to be familiar with IT tools and technology in this rapidly evolving world. The Institution regularly maintains the IT infrastructure on campus. All the lecture halls, auditorium, faculty rooms, offices, and labs have internet facilities through Wi-Fi/ LAN and are monitored by using CCTV. The Institution has 887 computers, 14 laptops distributed across various labs and departments, digital library, administrative office, training and placement, language lab, and project labs. Many of these computers have CORE i5 CPUs and 8GB of RAM.

There are 68 projectors spread across the labs, seminar halls, conference rooms, and classrooms. Every PC is connected to a LAN and is kept up to date by a central server, which is managed by a technical staff led by a system administrator. An internet provider by the name iBUS supplies a 500 Mbps 1:1 dedicated Leased Line service. The internet facility has been upgraded from 100 MBPS to 500 MBPS during the last 5 years. Currently the Institution has a bandwidth of 500 Mbps internet facility.

POWEREDGE R430 Server

The Institute server is designed to deliver exceptional performance across a wide range of workloads. It is equipped with the latest Intel® Xeon® processor E5-2600 v4 product family. It supports up to 12 DIMM slots with DDR4 memory with enhanced memory capacity and throughput. The server also features up to 10 high-IOPS hard drives and two PCIe 3.0 I/O slots, which double data throughput compared to previous generations.

DELL SONIC NSA 3600 FIREWALL

Next-generation firewalls (NGFWs) from the NSA series used in the Institute combine cutting-edge security technology to deliver threat prevention. The NSA series makes use of cloud-based services like CloudAV and SonicWall in addition to on-box features like intrusion prevention, anti-malware, and web/URL filtering. Sandboxing with several engines can be captured to stop zero-day threats at the gateway.

File Description	Document
Upload Additional information	View Document

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

Response: 1.51

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

Response: 826

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

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: 55.14

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)

2023-24	2022-23	2021-22	2020-21	2019-20
575.25	500.75	191.21	190.43	235.85

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: 62.79

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

2023-24	2022-23	2021-22	2020-21	2019-20
643	836	840	591	339

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](#)

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: A. All of the above

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

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: 44.14

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

2023-24	2022-23	2021-22	2020-21	2019-20
407	626	369	710	172

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: A. All of the above

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: 70.73

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

2023-24	2022-23	2021-22	2020-21	2019-20
122	175	178	131	102

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

2023-24	2022-23	2021-22	2020-21	2019-20
194	270	243	178	116

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: 5.8

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.)

2023-24	2022-23	2021-22	2020-21	2019-20
9	5	3	0	0

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

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: 64

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

2023-24	2022-23	2021-22	2020-21	2019-20
14	09	20	00	21

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

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: 30.6

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

2023-24	2022-23	2021-22	2020-21	2019-20
48	20	41	10	34

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:

The A J Institute of Engineering and Technology Alumni Association (AJIETAA) situated in Kottara Chowki, Mangalore-575006, holds a pivotal role in connecting former students with their beloved Institution. Established with a firm purpose, the association is dedicated to promote a lifelong connection between our proud alumni and our esteemed Institution forged by their time at AJIET.

Its main goal is to bring together all former students, creating a sense of community and connection among those who once shared similar academic experiences. This bond continues beyond graduation, helping alumni stay connected with each other and the Institution that played a key role in their growth.

Beyond building relationships, the association works to keep alumni engaged with AJIET. It organizes various events and activities that not only bring alumni together but also support the ongoing success of the Institution, these include technical talks, workshops, and programs across different fields, where alumni can share their knowledge and experiences. These events offer valuable insights to current students and support them to become future leaders of AJIET.

Furthermore, the association is dedicated in giving back to the Institution and its students in meaningful ways. Initiatives like providing books for underprivileged students and establishing awards and scholarships highlight alumni's commitment to supporting AJIET's future students. By creating opportunities for academic and professional development, alumni play an instrumental role in shaping the future success of their alma mater.

To support its endeavours, the association welcomes the involvement of all former students of AJIET, ensuring that membership is open to all who wish to contribute to its Mission. Additionally, honorary membership is extended to current members of the college staff, further fostering collaboration and mutual support between alumni and faculty.

The association's governance structure is designed to facilitate effective management and decision-making. At the helm is the Executive Committee, which includes elected members, with the Principal as Chairman and an elected faculty member as Vice-Chairman. This diverse leadership team ensures that the association operates transparently and efficiently, with the interests of both alumni and the Institution.

Regular meetings of the Executive Committee, will be held at least once every three months, provide a forum for discussion and decision-making on matters of importance to the association. Additionally, an Annual General Body Meeting is convened in each year to review the association's activities, elect new office bearers, and discuss future plans. This democratic process ensures that the association remains accountable to its members and responsive to their needs and aspirations.

Financial management is another critical aspect of the association's operations, with careful oversight exercised by designated officials. The Treasurer plays a key role in managing funds, maintaining accurate accounts, and presenting financial reports to the membership. Transparency and accountability in financial matters are paramount of our Institution, ensuring that resources are used effectively to advance the association's mission and objectives.

Alumni Directory: <https://www.ajiet.edu.in/alumni.php>

Our Alumni Directory helps to reconnect and network, offering a searchable database with privacy controls.

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:

A J Institute of Engineering and Technology (AJIET) governance illustrates the effective leadership aligned with the Institution's vision and mission. The management is dedicated to fostering excellence in both academic and administrative processes, aiming to produce globally competent graduates with high ethical standards at an affordable cost. The Principal, serving as the academic head, is supported by the Vice-Principal, Dean Academics, Department Heads (HOD's), Faculties, Administrative Officer, Office Superintendent, Training and Placement Officer, and various committee coordinators. The Institution's daily operations are directed by committees including the Governing Council, External Advisory Committee, and Review Committee. Additionally, governance incorporates the Internal Quality Assurance Cell (IQAC), Academic Council, Research & Development Cell, Examination Cell, Training and Placement Cell, and departmental coordinators.

The Principal ensures smooth management and promotes participatory leadership by involving a range of stakeholders in decision-making processes. At the commencement of each academic year, the Institute develops an annual strategic perspective plan aligned with the University calendar of events, incorporating input from relevant committee coordinators and heads of departments. In collaboration with other governing councils, the Institution has implemented the National Education Policy (NEP) 2020 in accordance with VTU curriculum guidelines. The NEP-driven curriculum offers outcome-based holistic education with ample opportunities for induction programs, creativity, experimentation, self-learning, multidisciplinary, and peer learning, along with intensive classroom learning. Departments then develop a time-table schedule through faculty meetings, subject allocation, curriculum delivery strategies, and internal assessment modifications.

AJIET's leadership is evident in its institutional practices, such as decentralization and participative management, achieved through effective planning, coordination, implementation, and monitoring. The Principal, in coordination with the Management, Vice-Principal, Dean Academics, HOD's, and committee coordinators, ensures responsive governance. The HOD's provide academic and administrative leadership through careful planning, implementation, and evaluation of departmental activities. They address departmental challenges and make appropriate decisions through organizational structures like college development committees and the IQAC. The Institution operates through decentralized committees coordinated by senior faculty members in consultation with the Principal. These committees deliberate and make decisions relevant to their assigned tasks, promoting reasonable decision-making, teamwork, and workplace transparency. The main objectives of distribution of power, in a system towards decision-making authority to manage the system more effectively and efficiently without causing any delay. This approach ensures active participation from all stakeholders in the Institute's decision-making bodies. Governance at AJIET also involves various internal and external

stakeholders, particularly in the teaching-learning process and outcome-based education, through IQAC.

AJIET has established short-term and long-term plans, involving contributions from all stakeholders. These plans are submitted through IQAC incorporating recommendations from various committees and resolutions from department meetings to the Governing Council for approval and for proper implementation. This structured approach to governance fosters a collaborative and transparent environment, enhancing the overall effectiveness and responsiveness of the Institution's leadership.

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:

The institutional perspective plans that are effectively deployed are as follows:

The management of AJIET is dedicated to maintain and raising educational requirements, expanding the Institution's infrastructure and growing as a one of the premier Institute. Management aims on each and every area of the Institution's operations, including academic programs, research, industry partnerships, entrepreneurship, human resource development, infrastructure and facility development, student life, placement, community outreach, and alumni network. The AJIET management has created effective Strategic Perspective Plans with specific goals, in order to implement plans to fulfil the current needs of society and in the near future. These plans are required to analyse & develop to transform the Institution into an ideal center of excellence. When the Institution first unveiled its doors in 2016, it consists of a single administrative block which includes the staff rooms, administrative offices, Class rooms, labs, and library. The department of Civil Engineering, as well as Mechanical Engineering Departments were formerly housed in different blocks. The Governing Council has established different strategic perspective plans in the following five years.

Administration Setup

Governing Body: Management of the Institute is the highest governing body for policy making and up keeping the Institution, which consists of the President who is also founder of the Institute along with the Vice-President and other directors.

Principal: The Principal is being the head of the Institution and also the member secretary of G C,

reports to the Governing Council for all academic, administrative and financial matters of the college.

Administrative Office: Administrative Officer (AO) is the head of the office dealing with the day to day administrative matters of the Institution.

Accounts: Accounts Manager is responsible for keeping all the files updated regarding financial transactions of the college.

HR: HR Office assistant is responsible for introducing welfare facilities to faculty and staff who have the relevant skills, qualifications and experience to make a positive, innovative contribution towards the development of AJIET.

Academic Bodies:

IQAC- Is a supporting functional body for the development and application of quality benchmarks/parameters of the various academic and administrative activities of the Institution. It Acts as a nodal agency of the Institution for quality-related activities.

Recruitment:

The Institution has a well developed procedure for the recruitment process. The selection of candidates is made by the appropriate selection committee, constituted by the management on the basis of the norms prescribed by AICTE.

Service rules and procedures:

The Institution has a set of well-established rules and policies within the framework of AICTE, state Govt. and the affiliating University regulations which are approved by the Governing Council of the Institution. The rules and regulations of the Institution were first published in 2016 and revised periodically.

Disciplinary policy:

The AJIET enforces a strict disciplinary policy to maintain academic integrity and a respectful learning environment. Staff as well as students are expected to adhere to the code of conduct, with violations resulting in consequences ranging from warnings to suspension or expulsion. Regular seminars/talks on ethics and professionalism are conducted to reinforce these standards.

File Description	Document
Institutional perspective Plan and deployment documents on the website	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: A. All of the above

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

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:

AJIET offers the following resources to support the professional development of both teaching and non-teaching staff members. The organization firmly believes in fostering a family culture among all stakeholders.

The Institution has a distinct performance appraisal system to gauge the quality of faculty members.

- Beginning of every academic year all the faculty members of AJIET are assigned with a task related to result feedback, projects, publication and committees.
- At the end of every academic year the faculties are requested to submit the completed self appraisal form to the head of the department respectively.
- HODs will review the submitted self-appraisal forms and mention his//her remarks and will be submitted to the Principal.
- The Principal will further mention his remarks and finally submitted to the management.
- All the necessary deviations in the performance indicator will be further notified to the respective staff member suggesting for improvement or better performance.
- The faculty members with significant progress during the academic year will be awarded an increment/promotion/Incentive as applicable.

The Institution also adopted effective welfare measures for teaching and non-teaching staff and avenues for career development/progression:

- The Institution also conducts FDP to encourage the faculties inviting External resource persons are to give talks on motivational aspects in order to enhance their teaching ability. The Faculty members are given SCL (special casual leave) to attend FDP, workshops, seminars, conferences, personality development programs, skill up-gradation and effective teaching methodologies organized by other premier Institutions.
- The FDP, workshops, seminars, conferences attended by the faculties and any other organisation the registration fee/TA & DA is paid by the Institute for the participants. Many Guest lectures, seminars and hands on workshops have been arranged for faculty so as to derive benefit of exposure on recent trends and cutting edge technologies.
- All the teaching and non-teaching staff members are provided with Provident Fund (12% of the salary or Rs. 1800/- whichever is less) and the same percentage is contributed by the management.
- All non-teaching staff are eligible to attend Staff Development Programme (SDP), guest lecture etc. to improve their skills.
- Each employee is eligible for Medical/Accidental benefit concession in A J Hospital, Mangaluru.
- Earned leave (EL) for every non-vacational employee.
- Maternity leave (ML) is available to women faculty/staff members.
- A permanent employee is entitled to avail 15 days of casual leave (CL) and 10 days of medical leaves in a year.
- Faculty members are also entitled for 40 days of vocational leave (VL) based on the availability of the slots in every academic year.
- Incentives to the faculty/staff members for additional work such as HOD/ R&D/Consultancy other than regular responsibility.

File Description	Document
Upload 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: 1.14

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

2023-24	2022-23	2021-22	2020-21	2019-20
0	0	3	0	1

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

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: 57.79

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

2023-24	2022-23	2021-22	2020-21	2019-20
74	64	57	93	57

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

2023-24	2022-23	2021-22	2020-21	2019-20
52	44	48	50	52

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

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:

Robust and transparent financial system is mandatory for governing a Higher Education Institute. In this regard, AJIET has effective functioning of the financial system monitored and controlled through internal and external audit. The Institution has a well-defined mechanism for conducting internal and external audits during every year to ensure financial compliance and curtail deviations in bookkeeping and other registries required for recording financial transactions. Internal audit is conducted by the internal audit team of the trust. External audit is conducted once in every year by a registered Chartered Accountant. The Institution has a well defined mechanism of mobilizing the funds with the administration generating funds from the primary source from the student fees.

- The estimated annual budget is prepared by the HOD's and submitted to the Principal well in advance before the commencement of the academic year.
- The Principal also develops the consolidated Institution budget, which is presented to the Governing Council for approval. The heads of the corresponding departments receive the approved budget for implementation.
- The Institutional finance committee uses internal audit to monitor the budget. In the event of unanticipated events, non-budgetary funds are distributed based on the strength of the event.

Mobilization of funds through following sources:

- Fee collected from the students
- Government funded projects
- Testing and consultancy fees
- VTU project sponsorship
- VTU grants for NSS/Sports

Mobilization of funds received through various sources are utilized for the following

- Salary for teaching and non-teaching staff members.
- Purchase of equipment, machinery, software and furniture.
- Electricity charges, telephone, internet bills, postage and other miscellaneous
- Annual maintenance contract, consumables, repair and maintenance, sanitation-housekeeping-gardening and security charges
- Advertisement, printing & stationery
- Infrastructural development facilities and building construction works
- Research and project activities
- Seminars, Conferences and Faculty Development Programmes and other extra/co-curricular activities.

The Institution optimally utilizes the resources for following activities:

- The infrastructure is best utilized for regular teaching and learning activities as well as for conducting seminars, career counselling, workshops and conferences for students, teaching and non-teaching staff members.
- Facilities are also offered for holding other Government exams such as NTA, COMED-K etc

Throughout the fiscal year, efforts are made to balance revenue and expenses and to make the best use of the resources at hand. A capable internal structure keeps a close eye on the Institution's available funds.

File Description	Document
Upload 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:

In 2016, the AJIET created the IQAC in accordance with principles established by the National Assessment and Accreditation Council (NAAC), NBA and other national academic agencies. Although improving quality is an ongoing effort, the IQAC integrates into the Institution's system and strives to achieve the objectives of maintaining and improving quality. The IQAC committee with other academic committees and HOD's of various departments will meet twice in a year to monitor and discuss the activities associated with teaching learning process, novel methodologies of operations and learning outcomes. To develop and progress a heightened level of clarity and focus in institutional functioning towards the enhancement of quality pertaining to the teaching learning process. With regular meetings and ongoing assessments, the IQAC makes sure that quality initiatives are implemented effectively. The IQAC strives for excellence in all academic endeavours.

The IQAC monitors the academic review activities such as:

- The academic calendar of events is prepared during the commencement of every academic year. The strategy for delivering the curriculum has been established with the curriculum feedback analysis report in view.
- Faculties will successfully conduct the classes and meticulously implement the delivery of the planned curriculum.
- Students Feedback is obtained twice in a semester to evaluate the efficacy of teaching.
- Internals, quizzes, assignments, seminars, case studies, micro projects, organized internships, and main projects are all utilized in the ongoing internal assessment process which is in accordance

with University guidelines. IQAC will effectively monitor these internal assessment processes and the faculty members and department heads are informed so that appropriate action can be taken.

- Academic audit committee along with HOD and faculty members participate in one-to-one interactions to examine the teaching learning process during class committee sessions and to conduct departmental academic audits.

The IQAC of the Institution also reviews the assessment of teaching learning outcomes through

- Result analysis, conducted after every internal assessment & final semester end exam results.
- Course outcome analysis for each course after completion of the semester.
- The Learning outcomes of program (POs) are assessed through course outcome (COs).

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: A. Any 4 or more of the above

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:

A J Institute of Engineering and Technology (AJIET) has a culture where it includes Gender Equity, and goodwill in society. The Institute offers equal opportunities to all genders to provide a peaceful and flourishing environment. The Institute has around 36% of female students and around 53% of female faculties. Female faculty members occupy prominent positions like HOD's, various committee in charges etc. The Institute has initiated several programs for the safety and development of female students and provides equal opportunity to Women in leadership and administrative areas.

The Institute has established the Women Welfare Committee (WWC) and Anti-Sexual Harassment Committee which organizes workshops, events, and programs to raise awareness about gender issues, promote gender equality and empower women within the Institution. The committee fosters a sense of community and solidarity among women within the Institution. The primary objectives of the committees are to prevent sexual harassment within the organization. This involves creating awareness among employees, students, or members about what constitutes sexual harassment, its impact, and how to prevent it. Prevention efforts may include training sessions, workshops, and awareness campaigns. Self-defence classes or workshops to enable students with practical skills and strategies to protect themselves in case of an attack or threat are organized by WWC to help female students safeguard themselves.

An Anti-Ragging Committee is formed in the Institution to prevent and address incidents of ragging. This involves raising awareness among students, faculty, and staff about the consequences of ragging and the importance of creating a welcoming and respectful environment for all. The Anti-Ragging Committee establishes a mechanism for students to report incidents of ragging in a confidential and safe manner. Designated personnels are assigned to whom students can approach to lodge complaints. Upon receiving a complaint of ragging, the committee is supposed to conduct a prompt and impartial investigation into the matter. Gathering the evidences, interviewing the witnesses appropriate disciplinary action is taken against the perpetrators in accordance with the Institution's policies and relevant laws.

An Internal Complaints and Grievance Redressal Cell (ICGRC) is typically established within the organization to address and resolve complaints and grievances raised by employees or members. This may include issues related to harassment, discrimination, unfair treatment, workplace conflicts, or violation of organizational policies. The ICGRC ensures confidentiality and sensitivity in handling complaints. It provides a safe and supportive environment for individuals to voice their concerns without fear of retaliation or victimization. The committee maintains strict confidentiality throughout the complaint-handling process to protect the privacy of the complainant and other parties involved.

To provide safety, care and security for girl students on campus, CCTV camera surveillance is installed in strategic locations to monitor campus activity and prevent mischievous behaviour. The campus includes well-lit pathways, parking lots, and common areas to enhance visibility and deter potential threats, especially during the evening and night hours. Trained security personnel are patrolling the campus and monitor access points, and other key areas.

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: A. 4 or All of the above

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: A. All of the above

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

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:

The Institute fosters an inclusive environment by celebrating a variety of cultural and regional festivals to honour and respect diverse traditions. Ethnic Day is celebrated to recognize and honour the diverse cultural backgrounds of the campus community. It promotes inclusivity and fosters mutual respect by showcasing and appreciating the richness of various ethnic traditions. Since many students travel from Kerala to join our Institute, we celebrate Onam to honour their cultural heritage and help all students learn about and appreciate these traditions. Secret Santa is celebrated to mark Christmas and end the year, while welcoming good wishes for the new year. Regional festivals like Ayudh Pooja and Laxmi Pooja are celebrated with great enthusiasm, featuring elaborate ceremonies and serving savoury treats at the end of the pooja in all departments. Yoga and meditation sessions for students and faculty are conducted to promote a healthy and peaceful environment. The Institute has a magazine and each department produces a newsletter, with student editors and faculty coordinators featuring timely activities and student columns, providing students an opportunity to showcase their creativity and work as a team. A Radio Club has been initiated in the college which encourages students and faculties to play songs in different languages.

The Institute celebrates national days like Independence day, Republic day, Engineers day, Women's day, Yoga day, Vanamahotsava, Environment Day, etc., Student-centric events such as Orientation, Induction Day, Freshers' Day, Farewell and Graduation Day are celebrated with great enthusiasm, involving both students and faculty, and concluded with a grand lunch. Besides academic and cultural activities, we have built up many strong infrastructures for a variety of sports activities for the physical development of the students. In this way the Institute's efforts/initiatives in providing an inclusive

environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic, and other diversities.

To sensitize students and employees to constitutional obligations, the Institute has organized seminars on civic rights, women's empowerment, and responsibilities. The University curriculum includes the Constitution of India and Professional Ethics as mandatory subject, educating students about their roles and responsibilities. Guest speakers from the police department have addressed students on topics such as citizens' rights, duties, and responsibilities. Motivational lectures of eminent persons from different fields are arranged for all-round development of the students for their personality development and to make them responsible citizens following the national values of social and communal harmony and national integration. Additionally, interactive activities and community service projects, including voter awareness programs and pollution awareness interactions for the public, have been undertaken.

File Description	Document
Upload 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:

Best Practice 1: Empowering high school students with technological updates through the involvement of AJIET staff and students

1. Objectives:

- To Enhance high school students' proficiency in emerging technologies, including programming, digital tools, and innovative concepts.
- To Inspire high school students to pursue STEM (Science, Technology, Engineering, Mathematics) fields and empower them to succeed in college and beyond.
- To develop students' critical thinking and problem-solving skills by applying technology and engineering principles to real-world challenges.

2. Context:

Empower high school students with cutting-edge tech skills and inspire STEM interest through a collaborative initiative involving engineering college students and staff. This practice bridges the gap between secondary education and higher-level technical knowledge, aiming to:

- Boost tech literacy with current and emerging technologies
- Ignite STEM enthusiasm through mentorship and career exploration

- Develop problem-solving and critical thinking skills via hands-on projects

By creating a supportive learning environment and practical experiences, we equip high school students with valuable skills and insights, preparing them for future success in the ever-evolving tech landscape.

3. Practice:

AJ Institute of Engineering and Technology (AJIET) have launched an innovative initiative, leveraging its engineering expertise to empower high school students with advanced technological skills. This distinctive practice sets a new standard in India's higher education sector, combining college resources with community engagement for a transformative impact.

AJIET's approach involves several key components:

- AJIET's interactive workshops and seminars empower high school students to explore cutting-edge technologies like Internet of Things (IOT), Mobile Apps etc., guided by engineering students and faculty. These immersive sessions break down complex concepts into engaging, easy-to-understand experiences.
- Through AJIET's mentorship practice, high school students are matched with engineering student mentors, receiving personalized guidance, industry insights, and STEM career exploration.
- AJIET's collaborative projects unite high school and college students in developing innovative solutions that solves real world problems. This collaborative environment nurtures valuable skills, creativity, and real-world expertise, priming students for success in the tech industry.
- By prioritizing experiential learning over traditional classroom instruction, AJIET cultivates technological expertise, collaboration, and innovation from the outset, setting students up for future success.

4. Evidence of Success

AJIET's initiative has demonstrated success through several key indicators:

- Positive testimonials from high school participants highlight increased interest and confidence in STEM subjects.
- Successful completion of collaborative tech projects showcases improved problem-solving skills and technical proficiency among students
- Increased enrolment in STEM-related higher education programs among program participants reflects enhanced career interest.

5. Problems Encountered and Resources Required

- Implementing and sustaining this practice demands considerable resources, including time, skilled mentors, and cutting-edge technical equipment. Institutions with limited financial resources may face challenges in maintaining consistent access to these essential resources.
- Although the program has shown promise in smaller settings, scaling it up to accommodate a larger audience may be problematic.
- Integrating this practice into existing high school curricula presents a complex challenge.

Best Practice 2: Environment Consciousness and sustainability initiatives

1. Objectives:

- To Educate students and staff on the importance of sustainability and integrate environmental consciousness into academic and campus life.
- To Adopt and promote waste reduction, energy conservation, and green initiatives across the campus to reduce its environmental impact.
- To Encourage active participation in environmental initiatives, and develop leadership through student-led sustainability projects and collaborations with communities and industries.

2. Context:

Creating awareness within the AJIET community by incorporating sustainability education into the curriculum and fostering environmental consciousness through workshops, seminars, and community outreach programs. Another aspect is that practical implementation of sustainable practices across the AJIET campus. This includes initiatives such as reducing waste through effective waste management systems, conserving energy by adopting energy-efficient technologies, and utilizing renewable energy sources to minimize the college's environmental impact. Through activities such as tree planting drives, Swach Bharat campaigns, and beach clean-ups, AJIET extends its sustainability efforts beyond the campus, contributing to the larger community's well-being and environmental health.

3. Practice:

At AJ Institute of Engineering and Technology (AJIET), the implementation of environmental consciousness and sustainability initiatives is carried out through a series of well-coordinated activities. AJIET regularly organizes awareness programs such as seminars and workshops to educate students and staff on the importance of sustainability, integrating these principles into the curriculum. The campus has adopted waste segregation and recycling practices, along with energy conservation measures like the installation of energy-efficient LED lights, motion sensor based lighting and solar panels. The institution actively participates in the Swach Bharat Abhiyan by conducting cleanliness drives within the campus and in surrounding communities. AJIET also leads annual tree plantation drives, contributing to the greening of the campus and nearby areas. Beach cleaning events are organized in collaboration with local environmental groups, offering students hands-on experience in environmental conservation. These initiatives are supported by active student involvement, with eco-clubs and NSS leading various green projects and encouraging participation from the entire college community, thus making sustainability an integral part of life at AJIET.

4. Evidence of Success

- High attendance at seminars and workshops, with active eco-clubs leading green initiatives and growing student involvement.
- Successful waste segregation and recycling initiatives, along with composting units that process campus organic waste, reducing landfill contributions.
- Reduced electricity consumption through the installation of energy-efficient LED lights and solar panels, lowering the campus's carbon footprint.
- Swach Bharat Abhiyan enhanced cleanliness standards on campus through regular drives, fostering a culture of cleanliness and responsibility among students.
- Hundreds of saplings planted through annual drives, with a high survival rate contributing to increased green cover on campus.

- Successful beach cleaning drives reducing plastic waste and raising community awareness, with strong collaborations with local environmental organizations.

5. Problems Encountered and Resources Required

While implementing the environmental consciousness and sustainability initiatives at AJIET, several challenges were encountered. These included the initial lack of awareness and motivation among some students, which required persistent efforts to engage them in green activities. Ensuring the long-term maintenance of planted trees and managing waste segregation effectively also posed difficulties. Additionally, the high upfront costs for installing energy-efficient systems like LED lights and solar panels required careful budgeting.

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

Institutional Distinctiveness

Our Institution focuses mainly on the holistic development of students and provides them with ample opportunities and resources to facilitate their wholesome development throughout their scholarly journey in the campus. The same has been narrated in the section wise discussion below.

Intellectual development:

- Institute follows the University (VTU) curriculum through a well-planned and effective teaching learning process blended with latest pedagogy approaches. Exposure to students throughout their program is provided by subject experts, industry experts and innovators. This will enable them to be industry ready. The institute identifies the curriculum gaps well in advance and provides the provision for imparting the content beyond syllabus to cover the gaps.
- The students are encouraged to undertake minor and major project works at par with the industry requirements. Students are also encouraged to go for regular industrial visits and internships. The institute also organizes various programs for providing hands-on training to the students in latest technologies/platforms implemented in the industry, which is being practiced to make the students stay with the current trends in technology.

Social development:

- The social skills are nurtured through various activities conducted by the clubs at the institute level. The students are exposed to the various issues, particularly in the neighbouring schools and provide optimal solutions, through the National Service Scheme implemented at the Institute. The students undertake activities of spreading social awareness about various burning issues like women's health, Swachh Bharat, bringing awareness about literacy, and beach cleaning (Thaner Bhavi and Panambur Beach) etc.
- The students also take part in helping the neglected part of the society like orphans and old age people. Students help the children at the orphanages by conducting classes for the kids. At old-age homes, students extend their help by way of providing foods, fruits, cloths, medical support etc.

Physical and Emotional Development:

- The institute is involved in promoting physical and mental well-being among the students to cultivate in them many skills such as team spirit, personality development, confidence building, decision making, acquiring organizational skills and leadership qualities, mental strength, yoga, meditation to name a few.
- Every year the institute organizes an annual sports day by organizing various events for the students comprising various sports such as cricket, volleyball, throw ball, kabaddi, chess, carom, etc. In these sports both boys and girls participate and exhibit their various skill sets.
- Every year the institute celebrates International Yoga Day.
- Institute also organizes the camps held at various village through NSS, various physical activities like local area visits to provide the digital & health awareness, Shramadhan to keep the school grounds clean, cleaning the surroundings under the banner of Swachh Abhiyaan, planting saplings, Yoga, exercises, outdoor sports and indoor activities like cultural activities for school children's etc are conducted.
- Emotional health of the students is also very important and hence it is given attention in our institute. The mentor-mentee system is in place and ensures the students connect with faculty at least once every two weeks. During these meetings, students can discuss their academics as well as personal issues with the mentor. Appropriate counselling is provided by the mentor to the students in order to resolve the issues immediately.

Because of this positive pragmatic approach, our AJIET's graduates are found to work persistently by taking their responsibilities after leaving the portals of AJIET successfully. They leave footprints of their own, wherever they go and they act as ambassadors of AJIET.

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

5. CONCLUSION

Additional Information :

A J Institute of Engineering and Technology (AJIET) is a prominent engineering college located in Mangaluru, Karnataka. Established in 2016 with an aim of providing high-quality technical education, AJIET offers a range of undergraduate programs in various engineering disciplines and postgraduate programs. The Institute is known for its academic excellence, research, and industry connections, making it a top choice for aspiring engineers. The Institute has earned NBA accreditation for five undergraduate programs during the year 2022 and is actively pursuing autonomous status in the near future, guided by the visionary Management and the dedicated, well qualified faculty and staff.

Our Institute's proximity to the National Institute of Technology Karnataka (NITK) fosters a strong association, enhancing internships, virtual labs, and project opportunities significantly boosting students' growth. Located near the coast, port, and major industries, our institute has strong ties with these sectors, enabling diverse activities like internships, industrial visits, and guest lectures. In Mangaluru, an emerging IT hub, we benefit from connections with top companies such as Infosys, Cognizant, Novigo, Niveus Solutions, Code Craft, Sankalp Semiconductors, and MiraFra Technologies supporting our students' growth.

At our institute a dedicated Chief R&D Coordinator leads innovation, while a Chief Consultancy Officer enhances industry engagement. The Placement Coordinator and team manage placements, with nearly twenty company MoUs boosting internships and job opportunities. Student chapters at AJIET provide networking, skill-building, and industry exposure, with notable involvement in IEEE, ISTE, and IEL. The IIC fosters creativity and innovation through workshops, seminars, and mentorship, promoting research, problem-solving, and an entrepreneurial spirit.

Our Institution promotes sustainability through initiatives such as harnessing 40KW of solar energy, operating a sewage treatment plant, implementing rainwater harvesting, managing e-waste, using energy-efficient lighting, and developing a green campus. AJIET is deeply engaged with nearby communities through initiatives like Unnat Bharat Abhiyan, NSS activities, and training government school students with Atal Tinkering Labs, which foster community involvement and offer emerging engineers opportunities to address real-world challenges. Students are also encouraged to participate in local cultural events and traditional festivals, such as Kambla and Pilinalike, to celebrate and preserve our heritage.

Concluding Remarks :

A J Institute of Engineering and Technology established in the year 2016 is committed to become a leading technical Institute with a Vision - To produce top-quality engineers who are groomed for attaining excellence in their profession and competitive enough to help in the growth of nation and global society. In its sixth year since inception, the Institute has earned NBA accreditation for all five branches, demonstrating its commitment to excellence in education. This prestigious accreditation, awarded for a period of three years, highlights the Institute's dedication to maintaining high standards and delivering quality academic programs. Building on this achievement, we aim to attain the highest NAAC accreditation, which will be pivotal in advancing our mission. This goal will enhance the Institute's quality of education, promote innovation, and align our curriculum with the National Education Policy, furthering our vision of academic excellence.