



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

KJ'S EDUCATIONAL INSTITUTES TRINITY ACADEMY OF ENGINEERING

**SR NO 25 AND 27 AT-PISOLI POST- YEWALEWADI NEAR BOPDEVGHAT TAL-
HAVELI PUNE**

411048

www.kjei.edu.in/tae/

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

November 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

KJ's Educational Institutes is established in the year 2005 with excellent infrastructure spread over 108 acres of green campus with spacious buildings having backdrop of Sahyadri hills. Under the guidance & leadership of H'ble President, Shri K J Jadhav, society has set up various bench marks in imparting quality education. The society also provides scholarships for economically weak students, to complete their degree.

The KJ's Educational Institute (KJEI) Trinity Academy of Engineering is established in 2010 located on 12 acres and 22,000 sqm constructed state of the art, world-class infrastructure and is approved by AICTE, Directorate of Technical Education (DTE), and Government of Maharashtra and is affiliated to Savitribai Phule Pune University (SPPU). Institution is accredited by NAAC with 'A' grade in the year 2017 and is now applying for its 2nd cycle.

TAE offers bachelor degree (B.E) in Civil Engineering, Computer Engineering, Electronics and Communication Engineering, and Mechanical Engineering; it also offers Master's Degree (M.E) in Mechanical Engineering (Design Engineering), and Civil Engineering (Construction Management). In addition to this we started bachelor degree in Information Technology and Master's degree in Computer Application (MCA) from academic year 2021. Our UG and PG intake is 360 and 168 respectively.

We have student centric activities, participative management, quality infrastructural and other facilities, which are the major features of this institute. The Institution has the state of art infrastructure which includes ICT enabled classrooms, seminar halls, well equipped laboratories, computer center, workshop, language laboratory, well equipped library, hostel facility for boys and girls along with Sports and gymnasium facility, cafeteria and an auditorium. Medical facility is provided to staff and students.

The institute was established with an objective of holistic development of the important stake holders such as students, faculty, alumni, parents and industry. The existing qualified, dedicated and experienced faculties play significant role for quality teaching, research and innovation. The institute provides necessary atmosphere to inculcate ethical and moral values in faculty and students. Institute encourages skills and Entrepreneurship development program. Faculty members are continuously encouraged and motivated for carrier advancement. All necessary quality policies are framed and implemented for providing quality education in the institute.

Vision

Vision

To be a premier knowledge centre of the nation for socio-economic development.

Mission

Mission

To provide education that combines rigorous academics with joy of discovery through sustained efforts and dynamic strategies in building innovative, participatory, problem-based learning practices and research that leads to capacity building of the students.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- **Excellent Teaching and Learning Process**
- **Experienced and dedicated faculty**
- **Best in class infrastructure and State of art laboratories for smooth conduction of Practical oriented teaching**
- **Planned activities like FDP/STTP, Workshops, and Guest Lectures to enrich faculty and students**
- **Guardian Faculty Scheme to enable student centric environment**
- **Fully automated and spacious library with rich collection of books and journals**
- **Conducive work environment for students through various clubs of student's interest like, Defense club, Google developer students club, Ingenious club and Road safety club**
- **Digital library with access to national and international e-journals along with reading room**
- **Memorandum of Understanding (MOU) with industries**
- **Well planned and organized Student Training Program and Value Addition Programs**
- **Effective training and placement cell with more than 90% of the eligible students placed in last couple of academic years and more than 75% average for last five years**
- **Excellent internet bandwidth and campus Wi-Fi facility**
- **Transport facility provided to Staff and Students to community**
- **Best class Boys and Girls hostel facility with swimming pool and gymnasium with in the campus**
- **Play Ground facility for sport activities**
- **Clean and Green campus for healthy learning environment**
- **Co-curricular and extra-curricular activities for holistic development of students**

- **Support to faculty for pursuing higher studies leading to Ph.D.**

Institutional Weakness

- **Moderate Entrepreneurship Development Cell(EDC)**
- **Need to Tie up with R&D labs and Research Centre with IIT's**
- **Low in Sponsored projects by Industry**
- **Consultancy and extension activities need to be increased**
- **Lack of Technology Business Incubation Centres to transfer the technology to industry**
- **Less number of book publications and patents**
- **Insufficient foreign university collaborations for faculty and student exchange**

Institutional Opportunity

- **Strengthening alumni networking to enhance the academic, placement and entrepreneurship activities**
- **Motivating students to join entrepreneurship which can lead to fulfill the dream of Make in India initiative of Government of India**
- **Enhancing number of Patents and Commercialization**
- **Collaborative research with corporate world**
- **Preparing students as per Industry requirement**
- **'Center of Excellence' in selected areas in engineering and technology**
- **Enhancing skill development activities**
- **Networking with institutes of national and international repute**
- **Foreign university tie-ups for sabbatical and student exchange**

Institutional Challenge

- **Enhancing employability skills of students in rapidly changing technology in an affiliated institute**
- **Adaptability to globally changing industrial scenario**
- **Scarcity of faculty with Ph.D. qualification in select areas of engineering**
- **Certification courses for academic environment**
- **Enabling faculty for Technology transfer and product development**
- **Need to improve communication skills in Students as most of the students are from rural background**

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

KJEI's Trinity Academy of Engineering (TAE) is affiliated to the Savitribai Phule Pune University(SPPU) and follows the curriculum provided by the university. The institute implements a standard process of planning of the curriculum delivery. The institute ensures that the curriculum objectives are achieved through teaching - learning process. The faculty of the institute are encouraged for active participation in the syllabus design on Board of Study (BoS) meetings held by SPPU. The important points are circulated to all the faculty members and interaction of faculty with experts are carried out successfully. Design of appropriate curricula is a key to success of the programs and it helps immensely to achieve the PEOs and POs. The Course Education Objectives and Course Outcomes are prepared by the University and faculty for effective delivery of respective course. The curriculum is based on Choice Based Credit System(CBCS) and the students are given a choice to choose elective subjects in third and final year.

The academic calendar is strictly followed by every department, which is prepared on the yearly basis calendar circulated by SPPU. Institute follows enjoyable learning so as inculcated in problem based learning, industry internship, Technical activities and extensive use of IT enabled learning platform to take engineering education to global standards. The Teacher Guardian scheme (TG) makes sure that the attendance of his/her allotted students is above a certain set threshold. The class teacher monitors overall attendance of class

The curriculum and academic processes also give adequate emphasis on gender equality, human values, professional ethics, professionalism, concern for environment and sustainability. Various cells are run for these students like,NSS,EDC,GenderEquality,CSR Cell.

Many Value Added Courses with focus on personality development, soft skill development, core technical skills beyond syllabus were conducted for imparting transferable and life skills benefiting more than 60% of students for last five years. About 100% students undergo Internship or Field work during their curriculum. The student feedback is taken in every semester to assess the quality of teaching-learning in all courses, and corrective measures are taken by the faculty based on the feedback. The institute has a formal mechanism to obtain feedback on curriculum from other stakeholders like students, alumni,

parents and industry. Internal Quality Assurance Cell (IQAC) monitors this feedback and corrective actions are taken by HODs

Teaching-learning and Evaluation

The students' admission to the institute is in accordance with SPPU, Maharashtra State Government and AICTE rules. The institute follows a transparent and centralized admission process administered by Government of Maharashtra Director of Technical Education(DTE).

Institute has qualified and experienced faculty as per AICTE and SPPU norms who follow complete teaching – learning process as per instructions given by SPPU and IQAC cell. Defined and sustained models are worked out in circular for enhancing Placements, academics and SPPU results. Strict adherence to the Academic Calendar, Time Table and Teaching Plan is monitored by Academic Dean and HOD. Expert lectures, extra sessions are arranged if required.

Information and Communication Technology (ICT) is in use at the institute. The classrooms and labs are ICT enabled and the campus has high speed Wi-Fi connectivity. The faculty here uses ICT to support, enhance, and optimize the delivery of education including guest lectures by experts, workshops, site/industrial visit and project based learning activities.

Institute follow guidelines set by the SPPU for the Conduct examination. University appoints Chief Exam Officer(CEO) in consultation with Principal to monitor all exam and assessment related activities. In the middle of each semester, an insem exam is conducted for 30 marks on the first two units and at the end of each semester, final exams are conducted which constitute 70 marks weightage on the remaining four units. It has an Exam Committee which consists of faculty members from various departments to address the examination related matters. Well planned PEOs, POs and PSOs are formulated for every program based on the 'outcome based education' approach Course objectives and outcomes, are prepared for each course following the appropriate levels of Blooms taxonomy. Institute has proved with good Average pass percentage of Students during last five years.

Research, Innovations and Extension

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

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

seminar, training, internship, Placements, sharing of physical resources etc. Near about 400 events are conducted in concern with various organization.

The institute encourages the faculty and staff to pursue higher studies. It provides study leave for pursuing Ph.D. work, permission and partial financial support for attending conferences and faculty development programs. The faculty strives for research paper publications in peer reviewed journals. During the last five years, above 400 research papers and 288 books/chapters have been published by the faculty and the students in reputed national and international journals and conference proceedings. The institute supports research projects by providing the financial assistance to the students as per the requirement of project wherever it is necessary. It has well established procedures for consultancy activities.

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

Infrastructure and Learning Resources

The Institute encompasses a well maintained lush green campus spread over 112 acres of land ensuring adequate availability and optimal utilization of physical infrastructure for teaching learning activities. It has ICT classrooms where the provision of Multimedia learning, Wi-Fi connectivity is given, seminar hall of more than 300 capacity, separate tutorial rooms are made available for students. All laboratories are well equipped with state of the art equipment and facilities. To facilitate teaching, learning and research in the institute, the central library has a separate text book and reference section and reading room, with more than 11000 books available. For self- learning, digital library with e journals and e-content is available in the institute. Overall 300 mbps bandwidth available in campus made available 24 × 7. Internet facility is available in the campus with Wi-Fi covered labs, classrooms, library, parking area offices of all Departments and hostel. The institute provides facilities for both indoor and outdoor games to the students.

NSS unit is started with an objective to cultivate an attitude of social service in the minds of students and to make them responsible citizens. Institute bring out the hidden talents of the students and for getting tremendous exposure in interpersonal skills, team spirit, time management and delegating, the students are encouraged to participate and arrange various cultural activities, Institute provide open amphitheater as cultural centre. Annual event KJ Youth Fest is conducted to showcase their talent in various events.

A language laboratory available for the students to provide an environment that enables all students to practice their listening and speaking skills concurrently. Institute maintains a medical centre with a doctor to treat the students and staff for any minor problem. One room is provided for the Yoga Club which helps students to maintain good health, possess mental and emotional stability, and integrate moral values and to attain a higher level of consciousness.

Institute also have a Hostel Building to accommodate 1200 capacity Boys and Girls hostel, with three

different mess available in the campus.

Student Support and Progression

TAE is a student centric campus which always try to provide students with all facilities that contribute to their academic and emotional wellbeing. Institute has well established student support system for financial assistance, sports and Cultural events. All eligible students are offered scholarship and free ship as per norms of Central and State Government. Average percentage of student benefited by these schemes is 65.84%. In addition, Institute also offers special KJEI scholarships to meritorious and economically weaker students. Many students gets benefited by swadhar yojana where they are paid for their expenses towards hostel stay.

Various Skill development sessions related to physical and mental health are conducted in the institute. The institute motivates the students for higher studies and research work. The institute has a centralized Training and Placement cell. It has a structured mechanism to make the students employable and also help them to choose the career of their interest. Many reputed companies visit the campus every year for recruitment with a placement rate of nearing 80% of all the eligible students.

Other than placements, aptitude training and career counselling have helped Students' to qualify for competitive examination like GRE, TOEFL, IETLS, GMAT, GATE for higher education as well as for competitive examinations monitored by Higher Education Cell(HEC).

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

The students, the institute regularly conducts co-curricular and extracurricular activities through various student's clubs to ensure the overall growth. We have hobby clubs like Defence Club, GDSC, Public Relation(PR)Team, Coding Club etc. Other than these hobby clubs we have well-structured Cultural and sports committees. Cultural fest known as "KJ Youth Fest" is been arranged annually along with Sports event as "Maidan" is very near to all youth in the campus. We even focus on extracurricular activities under NSS, CSR etc throughout the academic calendar. Our student's participate in updating "Wall magazine" which highlights various competitions and events conducted round the year. Our students have received appreciation and awards by participating in various state and national level competitions like SAE BAJA, Smart India Hackathon(SIH) etc. Alumni meet is being conducted every year to build the strong alumni network through registered alumni association "Smritigandh".

Governance, Leadership and Management

The institute aims at holistic development of students and teachers by implementing education and other initiatives to strategically meet Vision and Mission of the institute. Institute has a governing body, Local Managing Committee (LMC), Academic Monitoring Committee, Internal Quality Assurance Cell (IQAC), Institute has efficient and effective coordination between internal management systems. Head of Departments and Principal act as a management for designing and implementation of quality policies.

The institution has a decentralised governance framework with well-defined and well-designed interlinkages. Teachers are the most important factor of the teaching learning process in line with this teaching staff committees have been established to manage various institutional operations. The institution has participative management. Various teaching staff committees have been established to provide better opportunities to the stakeholders in the decision-making process.

The practice of decentralisation and participatory management is reflected in all the activities of the college through voluntary work in specific committees or cells of their interest. The institute implements several welfare schemes like Group Accidental Insurance is provided to all staff, Health Check-up facility, Recreation facility, Provident Fund, Official Duty Leave (OD), Earned Leave (EL), Vacation, Study Leave, Marriage Leave, Maternity leave, Free of cost uniforms to class IV staff and administrative staff.

Each employee of the Institute is evaluated in a systematic manner on an annual basis. The Head of the Department leads the performance appraisals which are further reviewed by Principal and the Management. Areas to be evaluated include General Appraisal, academic appraisal, Student Feedback and result Analysis.

IQAC has been formed immediately after the first cycle of accreditation which ensures the quality strengthening of academic and administrative activities. The institution is committed to follow a quality framework with the support of IQAC.

Institutional Values and Best Practices

Throughout the year various events, days, festivals and Commemorative days are celebrated by students under supervision of teachers. Institute respects the gender equality initiatives and every year Men's International day and women's International day is celebrated in the college. We invite the guest speaker on auspicious occasions/events to motivate our faculty and students for imparting human values. Apart from these activities, the institute organizes various cultural, sports and socio economic activities for the students and staff. We believe that students are taught about human values, moral responsibilities, leadership qualities, national spirit, and challenge accepting qualities through these events.

It adopts environment friendly green campus initiatives and takes necessary actions such alternate sources of energy and energy conservation measures, water conservation, green campus initiatives and disabled-friendly, barrier free environment. Quality audits on environment and energy are undertaken by the institution. Green audit initiative is taken by the faculty, staff and the students, through various projects. Institute promotes the use of power efficient equipment, solar energy and adherence to the guidelines of statutory bodies on degradable and non-degradable waste.

The institute organizes several programs to promote tolerance and harmony towards cultural, regional, linguistic, communal, socioeconomic and other diversities. The students participate in Swachh Bharat activities, organize blood donation camps, provide assistance to needy through CSR activities, national and international commemorative days. They are trained on human values and professional ethics as part of curriculum.

The two best practices that the institution believes and follows are:

1.Title : Career Mentoring The objective of this program is to prepare the students to compete with the cutting edge technologies with industry expected standards. Proper guidance is given for opting higher education. We make students confident enough along with soft skill and technical skill empowerment for increasing the percentage of employability.

2.Title : Student Training Program (STP) and Value-added Programs (VAP) The aim of “STP” and “VAP” is to improve the employability level of students by enhancement of technical and soft skills so that they can serve the industry better. In the second year itself, students are trained in soft skills and communication skills which are vital from an employability point of view. STP is conducted in Final year of the course.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	KJ'S EDUCATIONAL INSTITUTES TRINITY ACADEMY OF ENGINEERING
Address	Sr No 25 and 27 At-Pisoli Post- Yewalewadi Near Bopdevghat Tal- Haveli Pune
City	Pune
State	Maharashtra
Pin	411048
Website	www.kjei.edu.in/tae/

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Nilesh J Uke	020-8446091199	9850035805	-	principal.tae@kjei.edu.in
IQAC / CIQA coordinator	Satish S Deshmukh	-	9881258914	-	satishdeshmukh.tae@kjei.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	No

Establishment Details	

State	University name	Document
Maharashtra	Savitribai Phule Pune 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	21-07-2022	12	AICTE EOA is valid till date

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Sr No 25 and 27 At-Pisoli Post- Yewalewadi Near Bopdevghat Tal- Haveli Pune	Rural	123	19727.94

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	HSC	English	69	7
UG	BE,Computer Engineering	48	HSC	English	69	69
UG	BE,Electronics And Telecommunication	48	HSC	English	69	53
UG	BE,Information Technology	48	HSC	English	69	65
UG	BE,Mechanical Engineering	48	HSC	English	69	3
PG	ME,Civil Engineering	24	BE	English	24	11
PG	ME,Mechanical Engineering	24	BE	English	24	0
PG	MCA,Masters In Computer Applications	24	GRADUATION	English	69	68

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	6				15				42			
Recruited	3	0	0	3	1	0	0	1	24	18	0	42
Yet to Recruit	3				14				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				6				6			
Recruited	0	0	0	0	1	0	0	1	3	3	0	6
Yet to Recruit	0				5				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						24
Recruited	19		5		0	24
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				10
Recruited	7	3	0	10
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.	3	0	0	1	0	0	6	0	0	10
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	21	21	0	42
UG	0	0	0	0	0	0	0	0	0	0

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

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	630	22	0	0	652
	Female	211	2	0	0	213
	Others	0	0	0	0	0
PG	Male	81	0	0	0	81
	Female	26	0	0	0	26
	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	21	7	8	5
	Female	7	5	2	2
	Others	0	0	0	0
ST	Male	0	0	1	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	66	28	8	14
	Female	20	6	5	2
	Others	0	0	0	0
General	Male	110	47	44	23
	Female	44	16	19	9
	Others	0	0	0	0
Others	Male	7	6	3	6
	Female	1	1	0	0
	Others	0	0	0	0
Total		276	116	90	62

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Since the institute is affiliated with SPPU, we follow the guidelines and roadmap developed by Pune University for the effective implementation of NEP at our institute. We are already running various honour and minor interdisciplinary courses for the benefit of all the streams of engineering. A few academic projects are of interdisciplinary nature. However, in order to fulfil the objectives of NEP's multidisciplinary/interdisciplinary approach for teaching learning, our institute will draft a roadmap for incorporating the multidisciplinary subject and switching from one stream to another would be possible.
2. Academic bank of credits (ABC):	Academic Bank of Credits (ABC) is one of the provisions incorporated for online and selfed taught courses. ABC will allow students of undergraduate and postgraduate degree courses to exit the course and enter within a stipulated period. Academic Bank of Credits shall deposit Credits awarded by Registered Higher Education Institutions, for Courses pursued therein, in the Academic Bank Account of the student and the validity of such credits shall be as per norms and guidelines issued by the Commission from time to time. https://www.abc.gov.in : A portal has been launched, with the aim that HEI & Students can register in this portal. Students will be allowed to earn credits through various HEIs registered under this scheme and courses offered under National schemes by SWAYAM, NPTEL, and V-Lab. Institute will launch skill-based courses, and other courses under Credits through affiliated universities and help rural and tribal students to get the advantage of this provision. Implementation of ABC: As of now all the students have registered for ABC on the Government of India portal (https://www.abc.gov.in) with their PRN and submitted ABC ID to the University for further processing and credit transfer.
3. Skill development:	The NEP 2020 was envisioned for the holistic development of youth with an emphasis on skill development as the main factor to make the mission. 'Self Reliant India'. We are encouraging students to skills development courses through various SWAYAM courses and inhouse training like 'Employability Skill Development' (ESD) under TPO
4. Appropriate integration of Indian Knowledge	To link Indian art and culture into the teaching-

system (teaching in Indian Language, culture, using online course):	learning process which will be strengthened. The linkages between education and culture will be carried out through various online platforms such as SWAYAM, NPTEL, and DIKSHA and will be extended to provide teachers & students with a structured, user-friendly, rich set of assistive tools for monitoring the progress of learners.
5. Focus on Outcome based education (OBE):	Outcome-Based Education (OBE) is a pedagogical model that entails the restructuring of curriculum, pedagogy and assessment practices to reflect the achievement of high-order learning. The model allows the learner to transfer their credits and switch to another institution that is accredited with the OBE syllabus. The Students seeking newer skills to propel their careers further, there will always be a higher demand for vocational training. The college will facilitate the OBE syllabus as per the demand of the region (Rural & Tribal). Implementation: Trinity Academy of Engineering is Ranked in the “Silver Band with B++ Grade” in The OBE Rankings 2022 and is positioned as, The Premier Institution for Academic Excellence, in India. Attached herewith is the Certificate of Achievement and Recognition.
6. Distance education/online education:	TAE INITIATIVE: NEP emphasizes on integrating technology at all levels in the field of education. The National Educational Technology forum (NETF) provides a forum for the free exchange of ideas on the use of technology to improve learning, assessment, planning, administration etc., and its emphasis on creativity and innovation at all levels of education and also proposes the induction of new-age technologies such as online learning platforms. The college will establish an e-learning Centre and develop resources to promote distance learning and online learning for students from interior regions of the rural and tribal belt of the state. which will follow the process, i.e., IDENTIFICATION OF GAPS: To identify the gaps in the existing academic system of the college and fill gaps as per the objectives mentioned in NEP 2020. SURVEY: To conduct a survey in the region and explore the likening and demand of regional students in multidisciplinary curriculum & interdisciplinary curriculum. REFORMS SETUP: To organize & reform the existing academic system to a new one that will bring changes as per the need to set up a cross-disciplinary approach TRAIN THE TRAINER: To carry out the

	<p>new curriculum, teachers are to be trained and upgrade and enhance their knowledge by promoting them to organize and take up workshops, and Faculty Development Programs (FDPs) for advancements in their knowledge to conduct the new curriculum. INCORPORATE: Multidisciplinary & interdisciplinary curriculum will be implemented under the affiliation of Savitribai Phule Pune University, Pune.</p>
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Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>Yes, we have a well Organized committee under the name of Electoral Literacy Club (ELC) ,where there are student coordinators along with Teacher coordinator as per the directions of Election Commission of India. Proper sessions, feedbacks are taken through this.</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>Yes We have appointed two students' coordinators and one Co-ordinating faculty member as follows. Students' coordinators 1. Riza Peter 2. Sarangdhar Birajdar Co-ordinating faculty member 1. Dr. T. C. Jagadale</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>Yes Electoral Literacy Club has been constituted as per the directions of Election Commission of India to spread electoral literacy among the students. Objectives: ? To educate the targeted populations about voter registration, electoral process and related matters through hands on experience. ? To help the students to register their names in the voters list ? To help the target audience understand the value of their vote and exercise their suffrage right in a confident, comfortable and ethical manner. ? To facilitate voter registration for its eligible members who are not yet register Following Programs conducted ? Conducts class campaigns to sensitize the students about voter registration ? Assists the students in voter registration</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>College have taken following initiatives ? Introduces EVM to the students with the help of local election wing ? Celebrates national voters day</p>

5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.

SPPU initiates the Induction program at the beginning of First year admission. In this program the young students are being educated to be a part of the Electoral constituency . Well planned lecture for this awareness is being conducted by ELC. The students are first made aware of the importance of Election and their vote, Students who are not enrolled are motivated and given support to get theory voter ID from their local constituency. Institute makes students aware of any grievances in regard to electoral roll, Electors Photo Identity Card or any other election related matter, how it can be done in a proper online or offline method.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
972	923	796	981	1127

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

2 Teachers

2.1

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

Response: 82

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

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
47	49	56	65	74

3 Institution

3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
283	267	142	153	398

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:

KJEI's Trinity Academy of Engineering (TAE) is affiliated to the Savitribai Phule Pune University(SPPU) and follows the curriculum provided by the university. The institute implements a standard process of planning of the curriculum delivery. The institute ensures that the curriculum objectives are achieved through teaching - learning process. The faculty of the institute are encouraged for active participation in the syllabus design on Board of Study (BoS) meetings held by SPPU. The important points are circulated among faculty members and interaction of faculty with experts is done.

Action Plan:

- Before commencement of semester, principal meeting with Heads of the Department(HoD) to finalize the academic calendar considering various events.
- Institutional Academic calendar is prepared with reference to the university academic calendar. It includes commencement of teaching dates, unit test dates, University exam dates, Semester end dates and Theory/Practical examination dates.
- HOD conducts department meeting to review the syllabus given by SPPU. Subject 's choice for Electives are asked from BE students. The HODs collect three choices of subjects from each faculty and work Load is given accordingly.
- Subject allocation is given to faculty they prepare course file, subject notes, PPTs, Question bank and other study material.
- Departmental time table and teaching plan is prepared in consideration with guest lecturers, workshops for students. Strict adherence to the Academic Calendar, Time Table and Teaching Plan is monitored by HOD.
- Industrial visits and add on courses are planned as per the requirements of the curriculum.
- Book requirement is given to the Central Library semester wise. Which are refereed by staff and students.
- Projects for BE students are allocated to faculty as per their area of interest, experience. They are timely monitored in project work books.
- In case of seminar/miniproject for TE students, faculty is assigned as a guide as per area of interest. Marks are given as per prescribed college format.
- Daily attendance is recorded by the subject in-charge for lecture. The Teacher Guardian (TG) makes sure that the attendance of his/her allotted students is above a certain set threshold.
- Internal Quality Assurance Cell (IQAC) monitors the feedback taken periodically and corrective actions are taken by HODs.
- Unit tests and Prelim, Mock oral/practical exams are conducted before the SPPU examination in the same format as that of University. Marks are communicated to the students immediately and assignments are given for better understanding of the subject.
- Purchase of equipment's which are required in labs is done at the beginning of Semester.

Action Deployment:

At the beginning of the academic year Principal and HoD meeting is conducted to discuss the academic calendar, time table, confirmation of industrial visits, expert lectures, and the course file of the faculty. Continuous progressive assessment with respect to practical / assignments/ tutorial work is monitored by respective faculty. Periodic unit tests are conducted to improve results. Various Project is reviewed by respective guides. IQAC ensures the academic process to strength curriculum delivery process.

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

1.2 Academic Flexibility**1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years**

Response: 50

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

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 62.22

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
854	1016	358	499	259

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 into the Curriculum

Response:

The Institute follows curriculum prescribed by the SPPU University and integrates various socially relevant cross-cutting issues like ethics, human values, environment, etc., across UG and PG programs to sensitize the students

Human Values and Professional Ethics:

Human values and professional ethics are inculcated throughout the year but specially we addressed through the Induction Program offered in the FE /SE in both semester of Engineering program. The primary objective of this course is to ensure that the students have knowledge of the constitution, fundamental duties and rights of citizens, professional ethics and the responsibilities of engineers. The course also provides awareness about cyber-crimes and cyber laws. Special lectures on Human values are been delivered to students to understand the importance of Humanity and Positivity in their life. The Students of First Year UG will undergo Student Induction Program (SIP) in which cross-cutting issues like Human Values and Professional Ethics are addressed. In this program the young students are being also educated to be a part of the Electoral constituency. Well planned lecture for this awareness is being conducted by Electoral Literacy Club (ELC). The students are first made aware of the importance of Election and their vote, Students who are not enrolled are motivated and given support to get theory voter ID from their local constituency. Institute makes students aware of any grievances in regard to electoral roll, Electors Photo Identity Card or any other election related matter, how it can be done in a proper online or offline method.

Environment and Sustainability:

The issues of Environment and Sustainability are addressed through the course "**Environmental Studies**" offered to engineering students in the I and II semester. Through this course, students are sensitized to ecological and environmental issues connected with land, air, and water, with awareness on sustainable development.

Gender equity:

TAE, imparting quality education to shape global leaders has firm belief in gender equity which is indispensable to ensure sustainable development of a country. Institute has initiated promising measures to sensitize and promote gender equity amongst the stakeholders through curricular and co-curricular activities. To promote gender equity among the students, Institute supports flexible seating arrangements in the class rooms, equal representation of both genders in the leadership positions of class and college level committees, curricular and co- curricular activities. The Institute makes concerted efforts to create a congenial environment free from gender discrimination through mutual respect.

Apart from the above, the Institute organizes various awareness programs and activities on cross-cutting issues with the support of external organizations and experts. The NSS activities, Swachh Bharath Abhiyan, blood donation and health awareness camps conducted by NSS play vital role in promoting inclusive environment towards regional and socioeconomic diversities among students making a Positive difference and shaping them into wholesome professionals.

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

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

Response: 64.2

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

Response: 624

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 (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 31.72

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
275	116	90	61	67

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
408	348	348	408	408

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 19.68

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

2021-22	2020-21	2019-20	2018-19	2017-18
119	49	25	28	16

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

2021-22	2020-21	2019-20	2018-19	2017-18
258	217	217	256	256

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

2.2 Student Teacher Ratio

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

Response: 20.68

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 using ICT tools

Response:

Information and Communication Technology (ICT) plays a vital role in education which facilitates teaching and learning processes. It has transformed classroom communication methods and modified instruction delivery strategies. Due to this the teaching and learning has become more interactive, collaborative and vibrant activity vis-a-vis a traditional teaching approach. ICT integration in the field of education has impacted hugely in improving the quality of education. In KJEI's Trinity Academy of Engineering, the classrooms and labs are ICT enabled and the campus has high speed Wi-Fi connectivity. The faculty at TAE uses ICT to support, enhance, and optimize the delivery of education including guest lectures by experts, workshops, site/industrial visit and project based learning activities. The following are the some tools we are using in education:

Google Classroom is a free web service, which facilitates the teaching learning process. The teachers structure their course work and upload the same in the form of text, PDF, videos and presentations on their respective Google Classrooms. Moreover, students can access the teaching-learning material any time during their revision with the help of google classroom .

The video conferencing tools like Microsoft Teams, ZOOM and Google Meet are used to conduct online classes/meetings/webinars/workshops with students to improve the effectiveness of the teaching learning process. This enables the student-teacher communication more effective which is evidenced during COVID pandemic 2019. Microsoft Teams App has been adopted by the College for online teaching for teacher-student interactive interface. It integrates different ICT applications to build collaborative classrooms. Teachers use the Whiteboard option to engage students in the online sessions to create the course material and can use it to create, distribute and grade assignments.

Course content and reference material

Google Docs is an online tool through which multiple users can modify the document in real time. The sharing option helps the teachers and students to view, edit or comment on any assignment. In project work students share their programs/query through google doc.

Presentation applications like Microsoft Powerpoint, Canva and Google Slides are an effective way to enhance the learning process. The innovative PowerPoint Presentations which include pictures, videos, flowcharts, GIF's, animations and hyperlinks are used by staff to teach the students effectively. It is not only used for effective lecture delivery but also is an excellent medium for evaluating and improving the effectiveness of teaching learning process. **National Programme on Technology Enhanced Learning (NPTEL)** is an online learning platform, where students adapt material from lectures given by professors from the participating institutions such as NITs, IITs. Many faculty and students in every semester register for these courses and get certified. **Virtual Lab** provides access to simulation-based Labs in various disciplines of Science and Engineering. Also, Students can conduct experiments by nurturing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation. IIT Mumbai's virtual labs facilities are used for conduction of few practicals.

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

2.4 Teacher Profile and Quality

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

Response: 64.24

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
71	69	97	108	108

File Description	Document
Upload supporting document	View Document

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

Response: 10.31**2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
10	8	4	4	4

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

Trinity Academy of Engineering (TAE) follows the guidelines set by the Savitribai Phule Pune University (SPPU) for the Conduct examination. In the middle of each semester, an insem exam is conducted for 30 marks on the first two units and at the end of each semester, final exams are conducted which constitute 70 marks weightage on the remaining four units.

Grievance mechanism for Internal Assessment

The college has an Exam Committee which consists of faculty members from various departments to address the examination related matters. The Internal Assessment forms a part of a continuous evaluation system conducted through class tests, tutorials, assignments, projects and presentations, midterm submission, mock oral etc... All of these together constitute an integral part of internal assessment which is carried out in a well-planned and systematic manner. Each and every department conducts and evaluates their own internal assessments. The marks are displayed in the department notice boards. The same are intimated to the students by the respective departments through online media such as WhatsApp groups etc. If the student feels aggrieved in the fairness of evaluation, then they will represent the matter to the course teacher and check the answer scripts for verification and justification of marks. If in case, the student is not satisfied with the explanation, then they can approach the HOD/class teacher/TG for solving the issue who in turn seeks clarification with the concerned teacher and other teachers from the department to resolve the issue. The internal marks are then used for the evaluation of Term Work (TW), which is then uploaded to the University portal. After the final submission of internal marks to the University, if any further corrections are required after the declaration of result, it is addressed immediately to the principal by the concerned teacher through the HOD. The University is then intimated immediately for rectification of the same.

Grievance mechanism for Semester Examination

The end semester examinations are conducted by the Savitribai Phule Pune University (SPPU). Grievances related to the question papers, roll number or registration numbers in the admit cards reported by the students to the teachers are forwarded to the Examination Committee which in turn addresses to the Controller of Examinations (CEO) which is appointed by SPPU in consultation with the principal. The CEO then discusses the issue with the faculty members and based on the genuineness of the issue forward it to the SPPU. After the declaration of results, if the students find some mistakes in their results or are dissatisfied with it then they can refer their grievances to the SPPU. The Grievance Redressal Cell maintains a complaint/suggestion box for student grievances. If the students are opting for re-evaluation/re-checking of their answer scripts the same is submitted to the university to do the needful.

Hence the mechanism adopted by the college is transparent, time bound and efficient.

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

2.6 Student Performance and Learning Outcomes

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

Response:

The Course Outcomes are framed by taking into consideration the 360 degree development of the student in reference with their academics, personality and values possessed. Accordingly, the students are continuously guided and trained as per prescribed programme objectives and course objectives. The relevant events and activities are also structured to achieve the learning outcomes.

The process of attainment of Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) starts from writing appropriate COs for each course of the program from the first year to the fourth year in a four-year engineering degree program. The course outcomes are written by the respective faculty member using action verbs of learning levels suggested by Bloom and Anderson. Then, a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course in the program including the elective subjects. The course outcomes written and their mapping with POs are reviewed frequently by a committee of senior faculty members before they are finalized.

Attainment of the COs can be measured directly and indirectly.

Direct Method: Direct attainment displays the student's knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessments mentioned below. Three internal exams are conducted for continuous assessment in theory subjects. The internal assessment

is carried out by each department on their own by considering unit tests, prelim exams, mock oral and mock practical exams by the internal faculty members. For practical examinations, the assessment is done by the external experts appointed by the university. It is done through viva voce and their practical records. Practical work and assignments are also given to the students. Assessment is done based on their performance in practicals and completions of assignments in the stipulated time and the overall quality of their work done. At the end of each semester, the university conducts examinations and based on the result published by the university, the course outcomes are measured. The programme outcome is measured from the final semester results declared by the university.

Indirect Method: Indirect attainment methods such as Course Exit Surveys wherein students are asked so as to reflect on their learning. The Institution collects feedback from students and teachers which is an important method of measuring attainment with objectives of identifying the attainment level of students in terms of programme, programme specific and course outcomes and to understand the overall impact of teaching-learning process. Indirect measures can provide information about graduate candidate's perception of their learning and how this learning is valued by different stakeholders. Indirect attainment can be done by Programme – Exit survey, Alumni Survey, Employer Survey.

All these methods provide a sampling of what students know and/or can do and provide better evidence of student learning.

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

2.6.2 Pass percentage of Students during last five years

Response: 88.58

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

2021-22	2020-21	2019-20	2018-19	2017-18
205	344	273	316	242

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

2021-22	2020-21	2019-20	2018-19	2017-18
240	350	283	386	299

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process	
Response: 3.62	
File Description	Document
Upload database of all students on roll	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: 41.66

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

2021-22	2020-21	2019-20	2018-19	2017-18
16.12186	8.69511	3.51817	1.01	12.31648

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 and has initiatives for creation and transfer of knowledge

Response:

K J's Educational Institutes, Trinity Academy of Engineering, Pune has created an ecosystem for innovation including incubation center and other initiatives for creation and transfer of knowledge. By attracting and developing attractive human resources, taking the initiative to generate and disseminate information, and constructing cutting-edge infrastructure, the institute has established an ecosystem for Research and Innovation.

Research & Development Cell

Research at Trinity Academy of Engineering, Pune has always been given the pride of place, be it in the domain of teaching students or the professional goals of the faculty. Research, in this sense, has been intertwined with all curricular activities of students and the faculty alike. For students, the message that is conveyed is of research as a way of life. The Cell monitors and administers Research activities undertaken during undergraduate and postgraduate courses offered by the University, AICTE and faculty research contributions.

Aims & Objectives of Research & Development Cell

The R&D Cell is responsible for assisting the faculties and students in the performance of the Institute's research and development, and academic and research training activities. This includes the development, review and monitoring of achievements under the Research & Development, and those aspects of other university/Institute Plans

- To motivate students and faculty members towards research and innovation.
- To promote research culture in various departments of the institute.
- To create centers of Excellence in the area of research.
- Collaboration with industries for mutual benefits.
- Identify R&D projects by collaborating with other universities, public and private sector .
- To work closely with industries to develop products and to improve process.
- To promote students and faculty members for filing patents.

The specifics are as follows:

In order to encourage innovation and entrepreneurial activities, the college established the Institutional Innovation Council (IIC) and the Innovation & Entrepreneurship Development Cell (IEDC). According to Ministry of Education and AICTE directives, the IIC was formed. The presentation of student's creative working project models is encouraged in University level project competition. The Institution has conducted an International Conference for transfer of knowledge between speakers and Participants.

The institution has started a number of initiatives, including training programs, startup efforts, and pre-incubation support. By leveraging the available resources, staff and students are encouraged to engage in research and development initiatives. The institute has taken the lead in promoting academic and student pursuit of higher education overseas. In SPPU, Pune, faculty members submitted research proposals under the Aspire programme.

The institute has taken the initiative to encourage the faculty members to pursue their Ph.D. study and his/her research work. The government encourages faculty to take part in a variety of skill-development initiatives.

AICTE, University and other funding agencies are among the organizations that the College's Research Cell encourages its teachers to submit research projects to. Additionally, Research Cell promotes a research culture among students and professors.

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

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years**Response:** 102**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**

2021-22	2020-21	2019-20	2018-19	2017-18
32	13	21	10	26

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

3.3 Research Publications and Awards**3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years****Response:** 3.13**3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
134	15	53	23	32

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	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:** 1.37**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

2021-22	2020-21	2019-20	2018-19	2017-18
34	15	28	23	12

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

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

The Trinity Academy of Engineering in Pune takes on many efforts by planning various events to educate students and staff about their constitutional rights and responsibilities, such as their values and rights as citizens. We run numerous programs to convey people of fundamental rights, duties, values, and responsibilities as outlined in the Indian Constitution.

We urged everyone to honor the National Flag and National Anthem and to keep in mind the struggle for freedom. Human dignity, equality, social justice, human rights and freedom, the rule of law, fairness and respect, and the supremacy of the constitution in national life are all guaranteed by our constitution. TAE conducts practices on Human Communities and the Environment for awareness of first year engineering students. The rights and obligations outlined in the Indian Constitution and the TAE of Law serve as the foundation for the governing of the entire nation.

Our NSS, Health club, CSR cell and Cultural committee worked on earlier tasks related to this one. On January 26th, activities are held to mark Republic Day and emphasize the significance of the Indian Constitution. Constitution Day is similarly observed on November 26th each year. In KJEI campus, Independence Day is also celebrated annually to recognize the value of the Indian Constitution and the struggle for freedom. In order to inspire and get the next generation ready for global competition, the college has also participated in the Saksham Yuva Yojana and Samarth Bharat Abhiyan. To promote awareness of the value of blood donation in the nation, the college has also arranged a blood donation camp, yoga activity, Road safety awareness. The program seeks to instill in students a sense of social work's role in nation building. The main objectives of the programs are raising output, developing knowledge and skills, putting an emphasis on expansion, and assisting individuals in working on their own long-term development to students and society. The staff of TAE organizes numerous clean-up campaigns both on campus and in the adjacent communities because they see it as a civic duty. The students have also started tree planting efforts. The college has also played a significant role in the Swachh Bharat Abhiyan, where we arranged a rally for students and went on a tour of the entire town to raise awareness.

Programs are set up every year in which faculty and staff members voluntarily take part in neighborhood-based community activities. All of the aforementioned events had a great effect on the students and helped them build their leadership abilities, community connections, and self-confidence. Additionally, it raised awareness among students and cultivated their latent personalities.

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

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

Response:

The Institute and programme/department get awards and recognitions from government/ government recognized bodies for extension activities. These awards include, Awards received to the institute regarding OBE ranking, certificate of appreciation with five stars from innovation Cell etc and it also includes E-Paper awards. Institute has received almost 26 awards during the last five years.. It also Includes Awards and recognitions received to Faculty and students for various activities like best teacher, best paper, and NPTEL appreciation award. Many faculties are also awarded through various professional Body Memberships. Many faculties also worked as reviewer, guest editor, session chair, chief guest from government recognized bodies. Explanation of some Institute awards is given here.

Activity: Transformation Learning

The Trinity Academy of Engineering Pune has recognized for his outstanding and positive accomplishment towards the society and educational fellowships by the academic insights.

Activity: Green Revolution in KJEI campus

The Trinity Academy of Engineering Pune has signed up to participate in the Green Revolution and has received a certificate of appreciation from the Forest Department, Maharashtra.

Activity: Mentoring, Social Responsibility, Swachhta and Care for Environmental and Resources

The Trinity Academy of Engineering Pune has participated in the Social Entrepreneurship, Swachhta & Rural Engagement Cell and has received a certificate of appreciation from Mahatma Gandhi National Council of rural education, Department of Higher Education, Ministry of Education, Government of India in 2020.

Activity: Innovation Cell

In the academic year 2020, The Trinity academy of Engineering, Pune has been established by the Institution Innovation Council (IIC) as per norms of Innovation cell, Ministry of HRD, Government of

India and has received five stars rated certificate.

Activity: Carbon neutral Educational institute -Not Zero-net zero

The Trinity Academy of Engineering Pune has signed up to participate in the Not Zero-Net Zero and has received a certificate of appreciation from TERRE Policy Center.

Activity: Membership

The Trinity academy of Engineering, Pune has registered for Institutional member of ICT Academy in the Year of 2022 and has received a certificate of membership for ICT Academy.

Activity: National Intellectual Property Awareness Mission (NIPAM)

The Trinity Academy of Engineering Pune has participated in the National Intellectual Property Awareness Mission launched by Government of India on the occasion of the 75th anniversary of Independence under the banner Azadi ka Amrit mahotsav and has received a certificate of appreciation from NIPAM in Feb. 2022.

Activity: OBE Ranking

The Trinity academy of Engineering, Pune has participated in an outcome based education program in the Year of AY 2022 and has received a certificate of Excellence from OBE ranking 2022, World Institutional ranking.

Institute always motivates faculty and students for participating in various activities from government / government recognized bodies ,and for getting awards.

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

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 118

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

2021-22	2020-21	2019-20	2018-19	2017-18
31	20	33	13	21

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	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: 43

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

The Institute encompasses a well maintained lush green campus spread over 112 acres of land ensuring adequate availability and optimal utilization of physical infrastructure for teaching learning activities.

Classrooms: college encompasses sufficient number of well-furnished, well ventilated, spacious classrooms equipped with LCD projectors for conducting theory classes.

The College has ICT Classrooms where the provision of Multimedia learning, Wi-Fi connectivity and internet access is given.

Seminar Hall: The Institute has seminar hall of 300+ capacity with Wi-Fi LAN, PA facility. Seminar hall are regularly used for conducting national / international seminars at the college.

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

Laboratories: All laboratories are well equipped with state of the art equipment and facilities. All the laboratories are established as per AICTE and Savitribai Phule Pune University (SPPU) norms. These labs are utilized for conducting practical classes as per the requirements of the curriculum.

Specialized facilities for teaching, learning and research.

To facilitate teaching, learning and research in the institute, the central library has a separate text book and reference section and reading room. For self- learning, digital library with e journals and e-content is available in the institute.

Internet with Wi-Fi: 300 mbps band width available in campus. Internet facility is available in the campus including labs, classrooms, library, parking area offices of all Departments and hostel.

Sports: The institute provides facilities for both indoor and outdoor games to the students.

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

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

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

ability.

NSS: The NSS unit is started with an objective to cultivate an attitude of social service in the minds of students and to make them responsible citizens. Various socially relevant activities are being carried out like tree plantation, blood donation camps, etc.

Cultural activities: To bring out the hidden talents of the students and for getting tremendous exposure in interpersonal skills, team spirit, time management and delegating, the students are encouraged to participate and arrange various cultural activities for that purpose Institute provide open amphitheatre as cultural centre. Every year an annual event KJ Youth Fest is conducted.

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

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

One room is provided for the Yoga Club which helps students to maintain good health, possess mental and emotional stability, and integrate moral values and to attain a higher level of consciousness.

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

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 53.85

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
164.78	98.23	65.60	99.55	241.19

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

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

The main objective of central library is to provide seamless access to information to its users in a networked environment and to become a premier learning resource centre in Engineering, Science & Technology and related areas. College has a well-furnished library with good infrastructure with SLIM21 software (Latest version 3.7.0) Library Information Management with active features of Online Public Access Catalogue (OPAC) reflects databases to worldwide using internet facilities.

ILMS Software Details:

- Name of ILMS software – SLIM21
- Nature of automation (fully or partially) – Fully
- Version – 3.7.0
- Year of Automation File Description: - 2011

Modules of SLIM21:

Acquisition Module: It supports the entire range of activities from the time someone makes a

proposal to acquire an item, until it is finally paid for and accessioned. The core feature of this module is the billing feature and it is used by the library team.

Cataloguing System: It keeps a systematic cataloguing by creating a database according to the title, author, and keywords of the books.

Circulation System: It ensures the use of books by readers by offering an issue and return facility. This is done through the ILMS software.

Serial Control System: Serial section deals with magazines, journals, bulletins, and newsletters. In other words, it consists of annual, monthly, weekly and daily publications.

Barcoding: Barcoding has been done for all books.

Subscription of e-Resource:

Membership of National Digital Library of India:

College has done the Club Registration for NDL in April 2021; thus, all students, faculty and staff members are benefited through various sources available on NDL Portal.

College allocate specific budget to procured Books, Periodicals and e-Journals related to programs run by the college. It supports for academic and research activity in the college. It included Textbooks, Reference Books, and other General materials. The college has also subscribed peer-reviewed journals published by various national and international publishers

Addition to that library has subscribed J-Gate platform: Launched in 2001 by Informatics India

Limited, J-Gate is an electronic gateway to global e-journal literature. J-Gate provides seamless

access to millions of journal articles. The J-Gate platform is fronted by a simple, intuitive, and

easy-to-use interface, and also gives users complete control over search filters. Institute have recently purchase DEL-NET & IEEE e-journals package.

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

4.3 IT Infrastructure

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

Response:

Trinity Academy of Engineering continuously strives to provide state-of-the-art technologies and update its ICT facilities to ensure efficient functioning. Extensive infrastructure has been setup during the last five years

The infrastructure includes:

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

- Analog camera (4 MP, PANASONIC) = 92
- Projector Screen -20
- Network Rack- 32

- DVR with 4 TB of storage of 8 Nos.

In 2017, WIFI facility was installed with latest CISCO wireless access points. All buildings, hostels, Seminar halls, conference rooms and common areas in the campus are now Wi-Fi enabled. Available band width of 300 mbps band width available in campus. Internet facility is available in the campus including labs, classrooms, library, offices of all departments and hostel.

In 2020, Firewall security subscription (Sophos XG 310) was procured with 3 years' validity to upgrade the networking infrastructure in the Central Computer Center. The additional Fiber Optic Cable is laid to connects various units of TAE such as Seminar Hall, Hostel. etc. Associated equipment such as ethernet and fiber switches were also installed at different locations.

ICT facilities are available in the college. Necessary systems and application software are available in all respective laboratories. In 2020, a Microsoft MS team license has been purchased for Microsoft products. Site License for Microsoft Office 365 has also been obtained for students and staff of TAE. Significant investment has been made to upgrade classrooms to e-classrooms/smart classrooms with the purchase of the following equipment:

- Logitech WEBCAM
- Audio System

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

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

Response: 1.48

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

Response: 655

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 31.45

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)

2021-22	2020-21	2019-20	2018-19	2017-18
92.20	136.68	41.35	11.44	109.26

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	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 Government and Non-Government agencies during last five years

Response: 72.27

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

2021-22	2020-21	2019-20	2018-19	2017-18
736	642	622	704	764

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

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

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

Response: A. All of the above

File Description	Document
Upload supporting document	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: 90.12

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

2021-22	2020-21	2019-20	2018-19	2017-18
638	785	795	980	1127

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

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

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

Response: A. All of the above

File Description	Document
Upload supporting document	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: 1.74

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	17	7

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

2021-22	2020-21	2019-20	2018-19	2017-18
205	344	273	316	242

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

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 96.55

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
5	7	7	4	5

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

2021-22	2020-21	2019-20	2018-19	2017-18
6	7	7	4	5

File Description	Document
Upload supporting document	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: 109

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

2021-22	2020-21	2019-20	2018-19	2017-18
12	12	8	40	37

File Description	Document
Upload supporting document	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: 169.4

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

2021-22	2020-21	2019-20	2018-19	2017-18
102	63	86	476	120

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:

To strengthen the alumni network, the institute registered an alumni association during the year 2021 with the registration number being 32975. The main objective of this association is to bring together all the alumni in a single platform, to share their experiences, to extend support and provide guidance to the institution.

We are proud to share that our alumni are occupied various positions like CEO's , Entrepreneurs, plant

heads at various positions like MMC's, Public sector and government organization at global, national level and state level.

To keep in touch with alumni, the institute formed an alumni association committee, which interacted with alumni by different sources like sending birthday wishes via email.

The institute organizes “**Smrutigandha**” alumni meet every year. On an average of 400 to 500 alumni participate in the event. During the meet they interact with the students, faculty's management and share their ideas for improvement of overall progress of the institute.

The Alumni Association is created to achieve objectives which include:

1. To bring together the past students.
2. To utilize the experience, wisdom, zeal & ability of past students under Alumni Association for the benefit of current students.
3. To promote, establish, support, maintain or grant aid to institutions of TAE Alumni Association.
4. To distribute free food and clothing to poor or needy youth, children, students and individuals.
5. Grant relief and assistance to needy victims during natural calamities.
6. To provide textbook, notebook, uniform and other educational material to poor and needy deserving students of TAE Alumni Association.
7. To arrange seminars in rural and urban areas to be aware about daily issues with their solutions.
8. To organize medical camps for the welfare of the society. To arrange guest lectures for current students.

The Engineering Science Department organized a Guest Lecture on “How to Achieve an Academic Excellence” by Mr. Prithviraj Vitthal Wable on Friday, June 09, 2022. He is Founder of Primo Innovations Pune, is a research based company working on innovative and cost effective solutions in the field of agriculture sector. The Electronics and Telecommunication Department has organized a series of Lectures arranged by Trinity's Alumni's. Ms. Zeenath Khan (Alumni of the 2013-14 Batch) presented the inaugural webinar "Campus to Corporate " on Saturday, June 13, 2020. She works as A Consultant for Bristlecone India Ltd. Bristlecone is a Mahindra and Mahindra group. Mr. Shubham Ramtirth (Alumni of the 2017-18 Batch) gave a second webinar on "Role of Networking in IT Industry" on June 27, 2020. He works as a SQL Developer at IBM India Ltd. in Pune. Mr. Ajay Mothe, Research Scholar, Indian Institute of Space and Science Technology, Trivandrum, presented the third webinar on "Career Path after Engineering " on July 4, 2020. (Alumni Batch 18-19) Mr. Kaustubh Kulkarni, PhD Candidate, Department of Materials Science and Engineering, McMaster University, Ontario, Canada, presented the fourth webinar on "Scope in Nano-Materials" on January 8, 2020.

Alumni voluntarily involve in mentorship for current first year & second year students for the institute through media.

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 governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

The Institute follows a revolutionary vision and mission which satisfy the needs of society by providing high quality education through leading-edge technology.

Vision

“To be a premier knowledge centre of the nation for socio-economic development”

Mission

To provide education that combines rigorous academic with joy of discovery through sustained efforts and dynamic strategies in building innovation, participatory, problem-based learning practices and research that leads to capacity building of the students.

Nature of Governance:

The KJ's Educational Institutes has been making efforts to become a leader in the technical and higher education field since 2008. Institute has a governing body, Local Managing Committee (LMC), Academic Monitoring Committee, Internal Quality Assurance Cell (IQAC), Institute has efficient and effective coordination between internal management systems. Head of Departments and Principal act as a management for designing and implementation of quality policies.

The Internal Quality Assurance Cell (IQAC) is formulated to ensure the quality strengthening of academic and administrative activities. The institution is committed to follow a quality framework with the support of IQAC.

Role of Teacher in Decision Making Bodies:

The institution has a decentralised governance framework with well-defined and well-designed interlinkages. Teachers are the most important factor of the teaching learning process in line with this teaching staff committees have been established to manage various institutional operations.

Teaching staff are actively participating in department level meetings and the resolutions made in the department are passed to the Head of Institution for final decision. In addition, faculty members are also working as members of various committees formed at department level and institute level where the decisions and opinions of committee members play pivotal roles in decision making. The Head of Institution regularly conducts meetings to discuss various issues. The administration ensures that faculty

and staff opinions and proposals are incorporated into the college development process.

The institution has participative management. Various teaching staff committees have been established to provide better opportunities to the stakeholders in the decision-making process.

The practice of decentralisation and participatory management is reflected in all the activities of the college through voluntary work in specific committees or cells of their interest. Institute has different Committees which includes the

1. Internal Quality Assurance Cell (IQAC)
2. Academic Monitoring Committee (AMC)
3. Examination committee
4. Alumni Cell
5. Anti-Ragging Committee
6. Branding/Wall /Brochure/Magazine Committee
7. Entrepreneurship Development Cell (EDC)
8. Technology Business Incubation Centre (TBI)
9. Higher Education Cell (CEC)
10. Library Advisory Committee
11. Industry Institute Interaction Cell
12. National Service Scheme (NSS)
13. Professional Chapters
14. Research and Development Cell
15. Training and Placement Cell
16. Website Committee
17. Cultural Committee
18. Women anti sexual harassment Committee
19. Internal Complaint Committee
20. Sport Committee
21. SC/ST/OBC Cell etc.

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 functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

Institute has established an organizational structure to implement efficient and effective management of

academic processes. Various bodies comprise as a main component of organisational structure. The governing body is constituted as per the guidelines of competent authorities. Governing body is the highest decision-making authority, which consist of members from management, principal and faculty members.

Governing Body:

Institute has Governing Body to design various policies, establishes administrative setups, makes recruitments, and frames service rules for the employees. Well-structured implementation of strategies helps to conduct effective coordination and smooth functioning of the institute. Governing body setup the processes for implementing academic, administration and overall development of institute in line with vision and mission of the institute.

The body meets twice in a year and proceedings of the meetings is maintained properly. The decision taken by management executed through the principal and heads of department, dean academics and administrative staff. The college has various cells to conduct different activities and programs in the institute. All the respective cells are working through the guidelines set by IQAC (Internal Quality Assurance Cell). Other cells like Academic Monitoring committee (AMC), Research and Development (R&D), Industry Institute Interaction Cell (IIC), Entrepreneurship Development Cell (EDC), examination cell, anti-ragging committee, alumni cell, National Social Service (NSS), grievance redressal committee etc. are functioning at institute level.

Principal as a head of the institute, should have the vision and provide leadership ability, direction and coordination within, for the growth of the institute by, achieving all quality bench marks, validate academic plans and bridging a strong bond between Institute, Industry and other stake holders.

The Principal and HODs aims to implement the plans and achieve the set targets. Training and Placement officer is responsible for training and placement and industry institute interactions.

Faculty at the Institute includes all cadre categories as Professor, Associate Professor, and Assistant Professor. The Duties and responsibilities are to understand the Quality Management Policy and Quality objectives of Trinity Academy of Engineering, Pune.

Service rules, Procedures, Recruitment and Promotional Policies:

As per the norms of AICTE, DTE, UGC and State Government of Maharashtra institute has designed service rules, different policies and regulations which have been approved by the Governing Body. In order to this Institute has prepared standard operating procedure (SOP) document which made available all teaching and non-teaching staff. Also, soft copy of SOP shared over mail and hard copy is available in administrative office of the institute.

Institute has well defined and transparent policy for internal promotion as per norms which based on performance of the employee.

The Institute has the following perspective plans:

- 1.NBA Accreditation of Computer and Civil Engineering programme.
- 2.Collaboration with Reputed Institutes and research organization.
- 3.Cycle II Accreditation by NAAC with A+.

4. To start PhD program in Civil & Mechanical Engineering department.
5. Strengthen the ED cell and incubation Activities.
6. More MOU with Industries and MNC for skill development of student.
7. Establish IPR Cell for Students and staff.
8. Setup Consultancy Center for fund generation from various agencies.
9. Improve placement count with higher package.
10. All Faculties must have PhD qualifications.
11. Strengthen alumni on board engagement.
12. Explore new avenues of fund raising.
13. Develop research cultural among student and staff.
14. Collaboration with international universities for higher education.

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

6.2.2 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

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

Response:

Trinity Academy of Engineering considers teaching as well as non-teaching staff are important assets of the institute. Various welfare measures are provided for the benefit of teaching and non-teaching staff in the institution are as follows:

- **Employee Provident Fund (EPF):** All eligible staff can avail the scheme.
- **Medical/Sick Leave:** All staff members who are in service are eligible for 10 full days of medical leave.
- **Marriage Leave:** Faculty members can avail 12 days marriage leave.

- **Maternity Leave:** 180 days maternity leave to married women staff appointed on a regular basis according to the norms.
- **Compensation Casual Leave (CCL):** It is a leave sanctioned to a teaching or non-teaching staff in lieu of having attended the office on a holiday.
- **Official Duty Leave (OD):** 30 days duty leave is provided to teaching staff in a year.
- **Earned Leave (EL):** All non-teaching staff are eligible to avail 30 days of Earned Leave in a year.
- **Vacation:** 70 day's vacation is provided to teaching staff as per the SPPU guidelines.
- **Study Leave:** Special Study Leave is provided to pursue higher education.
- **Casual Leave (CL):** All staff members are eligible for 15 days casual leave.
- **Uniform:** Free of cost uniforms to class IV staff and administrative staff.
- **Emergency advance Payment:** Needy staff can avail benefit of scheme in case of emergency.
- Total 20% **fee concession** is provided to staff for the first two kids.
- **Group Accidental Insurance** is provided to all staff.
- Health Checkup facility

Performance Appraisal System for teaching staff:

Institute has systematically designed a Performance Appraisal System. The staff must complete the 'Self-appraisal form' after the completion of an academic year.

Evaluation Parameters:

Each employee of the Institute is evaluated in a systematic manner on an annual basis. The Head of the Department leads the performance appraisals which are further reviewed by Principal and the Management. Areas to be evaluated include General Appraisal, academic appraisal, Student Feedback and result Analysis:

Performance appraisal system for teaching staff:

- A self-appraisal is the first step in the appraisal process. Employees are asked to sign appraisal forms.
- The employee's signature does not imply that the Management/ employee agree with the appraisal, but that the employee has seen it.
- The employer can discuss the differences with the Management who will then do an independent analysis of the issue.
- Productivity and activity are the key work while evaluating any employee. It is the responsibility of the employee to ensure that he/ she has had at least one performance during twelve months of service.
- It is to be noted that all performance appraisals are used to provide a positive and developmental assessment of individuals and are not to be used as tools of personal vendetta under any circumstances.

Performance appraisal system for non-teaching staff

The information includes

- Part A (Self): Includes General information and academic background, courses/training programs attended/ notable achievements during the year,

- Part B (Reviewing officer(s)): Performance in technical work and administration related activities, co-curricular, extension, professional, development related activities, academic contributions, general conduct and qualities, aptitude.

Appraisal is reviewed and based on the performance appreciation letters are given by the management.

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

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

Response: 29.55

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

2021-22	2020-21	2019-20	2018-19	2017-18
24	0	8	14	40

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

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

Response: 39.61

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

2021-22	2020-21	2019-20	2018-19	2017-18
40	29	57	25	30

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

2021-22	2020-21	2019-20	2018-19	2017-18
28	32	37	33	36

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

6.4 Financial Management and Resource Mobilization**6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)****Response:**

The Trinity Academy of Engineering is self-financed unaided private institute. The primary source of income for institute is fees received from students, reimbursements of student's scholarship by State Government, Central government, donations/grants (if any).

The Management has a well-defined procedure to monitor effective and efficient utilization of available resources for infrastructure, development and teaching learning process. All the major financial transactions are monitored by the Executive Director and approved by the President and/or Secretary.

Institute has also a well policy for handling the available financial resources. At the start of every financial year the estimated budget from each department is collected. This estimated budget is based on the requirements raised by the individual faculty and staff. The faculty and staff will propose the requirements as per the syllabus in consultation with the Head of the Department. The due consideration is also given while determining this requirement to Research and Development, Training and Placement, Incubation activity, Consultancy activity, Extra and Co-curricular activities etc.

The principal reviews requirements and present the budget to the management for the approval. The Local Management Committee approves this estimated budget after rigorous analysis.

After approval of Management institute distribute the sanctioned funds within the departments, then the department plans the purchases as per the allocated funds. Provision is also made for emergency expenditure.

In case of any additional funds required for other activities has been provided to attend conference/seminars / workshops / FDP/ STTP / technical competitions. The benefited faculty is instructed to produce a detailed report of fund utilization.

The Accounts Section of institute office verifies the expenses against the sanctioned amount carried out under various institutional / departmental activities from the supporting documents and gives their remarks for the final settlement. Internal and external audits are carried out once in every financial year by the Chartered Accountant to ensure proper utilization of the funds.

The KJ Educational trust has established an internal audit department, finance and accounts department. The Trinity Academy of Engineering is one of the institutes run by KJ Educational trust has finance and accounts, audit mechanisms in place. It appoints auditors for internal and external audits.

Internal Financial Audit: -

The institute has mechanism for internal audit. Internal audit is carried out periodically. Internal auditor verifies all fee receipts, expenses bills, bank details, payment of suppliers, cash in hand, and salary statements of the financial year, auditor ensures that all payments are duly authorized.

External Financial Audit:

The institute has mechanism for external audit. The institute has appointed external agency Mr. Atul Bhosale Chartered Accountant firm to conduct an external audit.

External auditor makes an impartial evaluation of the financial statements. The final audit reports with audit findings are submitted to the Management. The consolidation of the findings of the Institutions with Trust office has been completed and the annual returns have been submitted to the concerned authority.

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

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

Institute has an IQAC cell to strengthen the Teaching Learning process. IQAC will become a vital part of the institution's quality assurance system and work towards ensuring quality enhancement. The prime task of the IQAC is to develop a system for consistent, conscious, and continuous improvement in the overall performance of the institution. It also focuses on the overall development of students by arranging different skill development programmes, sessions from industry experts, co-curricular and extra-curricular activities. IQAC conducts regular academic reviews for monitoring continuous improvement in teaching learning process.

Objectives and Functions of IQAC

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
- To conduct activities under the Research and development cell to foster research culture among students and staff.
- Planning, monitoring & evaluation for quality improvement.
- Analysing the feedback and carrying out the improvements in the institute.
- Extension and outreach activities.

Following two are examples of practices institutionalized as a result of IQAC initiatives:

Practice I: Successful completion of international multidisciplinary conference on Research, Technology & Engineering - 2022.

Objectives:

1. To improve innovative thinking and research skills.
2. To strengthen research culture among students and staff.

Practice II: Skill development programs for students and faculty.

Objectives:

1. To improve the entrepreneur, professional/employability skills of students.
2. To enhance teaching skills of faculty/ staff.

Example I: Institute reviews teaching learning process through subject course file audit:

The teaching learning process is enhanced by improving the quality of course file content. The Head of Institute appoints a Dean Academics position in the starting of the academic year who will work as Academic Monitoring Committee (AMC) coordinator and each department nominates one faculty as a member of AMC.

AMC reviews the teaching learning process, structure and methodologies of operations and learning outcome. The course file contents are teaching plan, unit plan, and lesson plan. Accordingly, faculty prepare a course file at the beginning of every semester after load distribution. While preparing the course file faculty prepare the course file as per academic calendar of the department and institute. Faculty add personal time table, academic calendar, student roll call list, syllabus structure & syllabus, CO-PO, CO-PO mapping, Lecture planning sheet, teaching plan per unit, Chapter wise notes, Content beyond syllabus, Result analysis of last three years and university question papers. CO-PO mapping and attainment is carried by faculty after declaration of result.

Example 2: Faculty Feedback System

Institute has implemented a stakeholder feedback system to improve the quality of teaching learning process.

Feedback of each subject is collected from the student twice in a semester (after month of teaching and end of teaching). One copy of student feedback is provided to the faculty and encouraged for necessary action taken. The feedback is evaluated and analysed by the head of department, if there is need of improvement then the concerned faculty is called and further faculties are counselled by head of department, academic coordinator and principal and asked for necessary improvement if required.

The content of student feedback is to check the teaching skills of the faculty such as handwriting, presentation, content delivery, regularity, knowledge, interactive teaching, use innovative practices and communication.

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); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)/ membership of international networks
3. Participation in NIRF
4. any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc

Response: A. All of the above

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

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

The college believes in celebrating events and festivals in college. It is an integral part of learning and building a strong cultural belief in a student. The Institute believes that students are taught about human values, moral responsibilities, leadership qualities, national spirit, and challenge accepting qualities through these events. The College makes tremendous efforts in celebrating the national and international days, events and festivals, gender equity programmes throughout the year to sensitize the students. Since many years college has practiced the celebration of days as it roots and nurtures human and ethical values among all the stakeholders.

Commemorative days: Independence day and Republic day are celebrated at large scale. Birthday anniversaries of Mahatma Gandhi, Dr. Babasaheb Ambedkar, Chhatrapati Shivaji Maharaj, Lokmanya Tilak, Savitribai Phule, Dr. A.P.J. Abdul Kalam is celebrated on college campus.

Events: On 5th September Teachers' Day is celebrated on occasion of birth anniversary of Dr. Sarvpalli Radhakrishnan, Engineers' Day is celebrated on 15th September in the remarkable memory of Sir Mokshgundam Vishweshwarayya which is celebrated centrally as well as at departmental level. International women's day is celebrated on 8th march every year. Faculty birthdays, traditional days are also celebrated where faculty performances are explored. College also celebrates linguistic days by organizing Marathi Din.

Dance competitions, singing competitions, rangoli competitions, and poster competitions are organized every year. Cultural committee looks after the organization of cultural events. The main objective behind organizing the events is to explore the student talent and potential.

Festivals: College has a continuous tradition of celebrating Ganesh Festival, diwali festival, Khandenavami i.e Dassehera, Navratri, Makar Sankranti festival. College cultural committee with our students, plans, prepares and executes all the activities for organizing the events. Through these events the college promotes regional event celebrations like dandiya.

Competitions: Students actively organize and participate in technical competition, Poster making, Project Exhibition, Extempore, Group Discussion, Debate, etc. The students are also motivated to participate in various intercollegiate and university level competitions. Students are felicitated and awarded at the Institute for their remarkable performance and achievement in

curricular and extracurricular activities.

Throughout the year different days, events and festivals are celebrated by students under supervision of teachers. committee which helps them to know about different cultures and to cognitively imagine India as a nation. College respects the gender equality initiatives and every year Mens' International day and

womens' International day is celebrated in the college. College invites the guest speaker on auspicious occasions/events to motivate our faculty and students for imparting human values. Apart from these activities, the college organizes various cultural, sports and socio economic activities for the students and staff.

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

Response:

K J's Educational Institutes Trinity Academy of Engineering, Pune undertakes different initiatives by organizing various activities to sensitize students and employees to the constitutional obligation Such as: Values, Rights, Duties and Responsibilities of the citizens. We conduct many programs to explain fundamental rights, Duties, Values and Responsibilities of the citizens as stated in the Constitution of India. Eminent speakers are invited to the college to sensitize the students and employees about the values and rights.

We appealed to all to remember the struggle of freedom and respect the National Flag and National Anthem. Our constitution provides for human dignity, equality, Social justice, Human rights and freedom, Rule of law, equity and respect and superiority of constitution in the national life .The whole country is government on the basis of the rights and duties enshrined in the Constitution of India and Trinity Academy of engineering (TAE), Pune has always tried to enrich importance at Degree level across all engineering disciplines to create awareness and sensitization to the students and employees to constitution obligation .

Earlier activities relating to this task were undertaken by our NSS and cultural committee. Every year Republic day is celebrated on 26th Jan. by organizing activities highlighting the importance of the Indian Constitution. Similarly, constitution day also would be celebrated on 26th Nov. on every year. Independence Day is also celebrated every year to highlight the struggle of freedom and the importance of the Indian constitution in KJEI campus. The college has also taken part in the Samarth Bharat Abhiyan and Saksham Yuva Yojana, where we have arranged to motivate and prepare the future generation for global competitiveness. The college has also organized a blood donation camp to raise awareness about the importance of blood donation in the country. College follows green policy and students have initiated many activities like tree plantation, plastic free campus oriented activities.

The students and staff have taken up many cleanliness drives both inside the campus and nearby villages considering it as a responsibility of every citizen. The students have also taken up Tree Plantation drives to provide a clean and green environment for all people and Society. Swachh Bharat Abhiyan has also been an important initiative taken up by the college where we have organized an awareness rally for the students and took a tour of the entire town to create awareness among all. The college (TAE) has also conducted a Vaccine awareness program, where they were sensitized about their constitutional powers of COVID.

College also observes and celebrates the many cultural activities like Diwali, Dussehera, dandiya celebration where students are promoted to explore their talent.

Linguistic days like Marathi diwas, Hindi din are also organized to respect the linguistic culture.

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

7.2 Best Practices

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

provided in the Manual

Response:

Best Practice No.1:

1.Title : Career Mentoring

2. Objective:

- The objective of this program is to prepare the students to compete with the cutting edge

technologies with industry expected standards.

- Guidance for opting higher education.
- To make students confident enough along with soft skill and technical skill empowerment.
- Increasing the percentage of employability.

3. Context:

Post covid -19 Industry wishes and will to have skilled employees who strive for technical competency. This program perfectly analyzes, prepares and makes students ready through a mentoring mechanism by teachers along with Training and placement activities. Students are interacted, analyzed and targeted as per his or her skill sets.

4. The Practice-

Career mentoring helps the students to pursue higher education and to increase student recruitment where TPO (Training and Placement officer), TPC (Training and Placement coordinator from department) and students are involved. Each faculty from the department is assigned with a group of students.

In this practice faculty mentor interacts with the students and tries to analyze their interests about skill sets.

Goal setting sessions are arranged by TPO just to inform students about the skill sets requirements and company expectations and students register their personal details, academic details along with their choices of career plan/higher education.

Student Evaluation: Through Mock interviews, technical test, Group discussion students are evaluated, who are then counseled by the faculties. Such sessions are to make students confident and make the josh high.

Resume Building: Students are asked to prepare their resume and guided about preparation of video resumes. Expert sessions are planned to prepare resumes.

Career guidance sessions are also planned based on the preferences given by students. Aptitude skills, soft skills sessions along with technical sessions are organized. College has signed an MOU with MNC like Zensar ESD, Rubicon, GTT Foundation for skill training to students.

Placement activities: Based on above practice college is observed to have a good placement record, with higher packages companies offering placements to students.

5. Evidence of Success-

Past years average placement is around 80% and is increasing year by year. It also strengthened college academics. It has transformed from the student mentor being a mere figurehead to the career mentor making more outcome based. Our placement ratio is increasing each year with college also been visited by new companies every year.

6. Problems Encountered and Resources Required-

Convincing the companies about students' strength and quality. meeting the companies criteria, finding best fit for student companies as many students struggle with company criteria and enhancing student technical concepts to meet company expectations.

Best Practice No.2:

1.Title : Student Training Program (STP) and Value-added Programs (VAP)

1. Objective:

- The student training program and values added program makes the students placement ready or ready to go entrepreneurship.
- It is one of the important objectives of the institute to develop the students to get placed in good companies in their field of specialization. Thus the college carries on activities like practicing aptitude, group discussion, general knowledge, current affairs, etc.
- To enhance employability and the quality of the students by empowering them with all required skills to make them globally competent.

1. **Context:** The aim of “STP” and “VAP” is to improve the employability level of students by enhancement of technical and soft skills so that they can serve the industry better. In the second year itself, students are trained in soft skills and communication skills which are vital from an employability point of view. STP is conducted in Final year of the course.

1. The practice

- **Aptitude Enhancement:** aptitude tests are of paramount importance to prospective job seekers in today's competitive job market. employers use aptitude tests to distinguish between candidates and a poor score on a numerical or verbal reasoning aptitude tests could be the difference between getting an interview or not..
- **Awareness about current affairs:** It refers to the important incidents that have occurred and hold social importance in the world. The important role of current affairs can be evident with the various eligibility criteria adopted by the job sector.
- **Developing domain knowledge:** domain knowledge is the basis of the job the students will be acquiring in the organization.
- **Technical skills:** many companies today hire employees by looking at their computer literacy. All the activities of the student training program are conducted by faculty who has their expertise in

respective areas. Personal and Career Goal Setting, Presentation Skills, Report Writing, Letter/ Application Writing, Signal Processing , Programming Language, Electronic Circuit Design, Embedded System and disassembly of Mechanical system like I/C engine and M/C Tool System, Skills in varies processes involved in mechanical system like RAC equipment, Hydraulic Pneumatic system these programs have been conducted by various department.

5. Evidence of Success:

Two teams from Trinity Academy of Engineering. Pune comprising students of Electronics & Telecommunication and Civil Engineering have been selected for final round at Smart India Hackathon (SIH)-2022 for Hardware and Software edition. The Smart India Hackathon is organized every year by the Ministry of HRD. Government of India.

Baja SAE is a Collegiate Design Series competition run by the Society of Automotive Engineers International. The goal in Baja SAE is to design, build and race off-road vehicles that can withstand the harshest elements of rough terrain. The vehicles used in Baja SAE racing are often similar in appearance to dune buggies. Team Invictus Racing, K.J.E.I's Trinity Academy of Engineering SAE INDIA COLLEGIATE CLUB BAJA TEAM participated in SAEINDIA BAJA 2022 competition that was held from 06th April, 2022 to 10th April, 2022 at Pithampur, Indore.

6. Problems Faced and Resources Required:

- To cope up with the daily updates and knowledge about the current requirements in industry as well as society needs, this is difficult to cover in the teaching learning process of the Institute.
- To cover up the above problem VAP is required to be conducted in parallel with regular academics. Extra sessions from industry experts are normally arranged.
- Students are heavily charged for such professional training.

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

7.3 Institutional Distinctiveness

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

Response:

Institutional Distinctiveness (A. Y. 2021-2022)

Empowering academics towards holistic development of students

Trinity Academy of Engineering aims to impart an excellent quality education in engineering at affordable fees, towards the holistic development of the students. The institutional distinctiveness is to excel in the overall academics of the students and making them competitive towards pursuing their goals. The institute commits for overall development of the enrolled students from rural as well as urban areas and empowerment of their academics as the institute is closely surrounded by both rural and urban areas. As per TIMES engineering ranking 2022 the institutes holds 109th rank in top private engineering institutes of the country. The integrated character building and holistic development through rigorous training and innumerable activities in the academics at the institute makes every student enough competitive to face various challenges of the globe.

TAE has been striving towards excellence in offering the best quality education to all its students. Achieving excellence in the education is long-run continuous procedure. This excellence in education is being achieved through rigorous academics at the institute by the following ways:

Enjoyable learning activity: Faculty at institute prefers to adopt innovative ways that can make learning enjoyable and interesting. For instance, quiz competition, virtual demonstrations using ICT tools and live demonstrations after visiting the actual happening sites. For instance, to learn the multi-media and Dolby systems, visiting nearby multiplex cinema theatre.

Project based seminars: This activity is organised for the students to present their project work, share innovative ideas, and discuss outcomes of their work with the audience that adds value to their communication skills, leadership's quality, and creativity / innovation ability.

Problem based learning: In this activity students can select a specific task of their choice and a group of students (5 or 6) can work on a project/model/assignment for a complete semester and outcome of the work can be submitted as a report at the end.

Hands on training: Learning by doing science and technology. Attending classes and watching video demonstrations may not always sufficient and direct hands on training can give better understanding and newer learning experience. Industrial visits are organised on regular basis for that. Institute has research and development cell for the implementation of the experimentation on innovative ideas of the students.

Employability skills enhancement: The aim of many students is to get employable after their graduation. Various activities are organised at the institutes that enable students to get ready for the job. The career counselling sessions are conducted regularly through a Training and Placement Cell (TPC).

Skill development and value additions: The institute arranges skill development and value addition programs to facilitate students to enrich themselves for the entrepreneurship, employability and soft skills development.

Enhanced teaching-learning techniques: TAE use various ICT enabled tools to enhance the quality of teaching- learning like Video Conferencing platforms such as Microsoft Teams, ZOOM, Google Meet, Google Classroom, Google Docs Microsoft Power-point, and Google Slides, Virtual Lab etc., specifically used on extensive scale in COVID pandemic.

Posters/students seminars/group discussions: This is an important activity to nurture various abilities of the

students such as communication, creativity, group workability, presentations, innovation, critical analysis, reviewing, knowledge gaining etc.

Online courses offered such as by NPTEL: Institute continuously encourages students to opt for the online courses offered by NPTEL that provide quality education to everyone who is interested in learning from IITs through web and video courses.

Collaborations and MoUs: The institute believes, in collaboration and working with multiple partners, including international universities and research organisations, NGOs, industries, other foundations, corporate, public, and the government, hence formally joined through the MoUs (Memorandum of Understandings) with various institute & industries.

Expert lectures/guidance: The lectures to students by scientists, technologists, entrepreneurs and eminent academicians are organised on regular basis. We believe that this activity can encourage students to think out of box and get courage to opt for the challenging career pathways.

Entrepreneurship development: The institute has full-fledged Entrepreneur Development Cell (EDC) that aims to keep encouraging budding entrepreneurs for the start-ups or own business ventures. This is the today's real need of the nation. We often practice to import technologies in part or full from developed world that keeps our productivity (GDP) low. The ultimate solution is to orient our students in such a way that they can aim to develop own science and technology to make the truly independent nation in 21st century. Importing science and technology is not affordable to the densely populated country like us that keeps our nation poor at the world forum.

Future generation of innovation & leadership: To create next gen leaders in science and technology, patriotism and hard work along with the critical awareness about today's social, techno-economic issues in the country are essential and these qualities can imbibed in the students and relevant awareness can be achieved through rigorous activities mentioned above.

Overall character building of any student includes development in its intellectual, psychological, physical, social, ethical, cultural human values and so on. These can be further included or supported by sports, co-curricular, extra-curricular activities etc.

In this way the institutional distinctiveness is clearly seen through above various activities in striving excellence in engineering education by empowering academics and implementing innovation practices towards holistic development and integrated character building of the students.

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

5. CONCLUSION

Additional Information :

Challenges and Opportunities are two sides of the same coin. we take every care of all-round personality development of individual student along with academic excellence. Through 'Teacher Guardian' and 'Mentor Scheme', the teachers counsel students under them for constant development and enhancement in personal, social and academic skills of the students for their excellence.

Institute promote our students to join Indian Armed Forces, by guiding them to prepare for Combined Defence Services (CDS), AFCAT, INET etc. We look forward to promote holistic development of the student. We also conduct visits to many defence organizations like, NDA, CME, INS Lonavala etc.

TAE has highly qualified and experienced teaching faculty who through application-oriented teaching enrich the knowledge of students with full dedication and commitment. Institute Inculcate various activities like Research and Innovation, Entrepreneurship Development program, various certificate programs, add on courses, guest lectures, and interaction with the corporate managers etc. are regularly conducted to strengthen quality of students and enhance their employability quotient. Excellent result in University examinations, excellent placements, excellent faculty, best infrastructure is attracting students from nearby cities as well as other states of India to TAE for quality education.

PROGRAMS OFFERED WITH THEIR INTAKE:

UNDERGRADUATE COURSES	INTAKE	COURSE CODE
Civil Engineering	60	663419110
Computer Engineering	60	663424510
Electronics & Telecommunication Engineering	120	663437210
Information Technology	60	663424610
Mechanical Engineering	60	663461210
POST GRADUATE COURSES	INTAKE	COURSE CODE
Civil Engineering (Construction Management)	24	663460110
Mechanical Engineering (Design Engineering)	24	663421010
Master of Computer Application (MCA)	120	663424110

Institute mainly focus on Training & Placements(T&P), We try to unveil the potential by giving right inputs, career options, opportunities to either emerge as an entrepreneur or an employee of choice. At T&P department they endeavour to provide end-to-end employability solution that enables students to identify the changing skill requirements for various jobs, in order to create an industry-ready talent and provide it to industry so that industry can catch them at source. Regular conduction of career guidance

seminars, workshop through industry people, our alumina to provide detailed information on new-age careers, job profiles, skill set requirements, career options and career progressions.

Concluding Remarks :

Institute has established an organizational structure to implement efficient and effective management of academic processes. Various bodies comprise as a main component of organisational structure. The governing body is constituted as per the guidelines of competent authorities. Governing body is the highest decision-making authority, which consist of members from management, principal and faculty members. It designs various policies, establishes administrative setups, makes recruitments, and frames service rules for the employees. Well-structured implementation of strategies helps to conduct effective coordination and smooth functioning of the institute.

The decision taken by management executed through the principal and heads of department, dean academics and administrative staff. The college has various cells to conduct different activities and programs in the institute. All the respective cells are working through the guidelines set by IQAC (Internal Quality Assurance Cell). Other cells like Academic Monitoring committee (AMC), Research and Development (R&D), Industry Institute Interaction Cell (IIIC), Entrepreneurship Development Cell (EDC), examination cell, anti-ragging committee, alumni cell, National Social Service (NSS) and grievance redressal committee are functioning at institute level.

Principal as a head of the institute, have the vision and provide leadership ability, direction and coordination within, for the growth of the institute by achieving all quality bench marks, validate academic plans and bridging a strong bond between Institute, Industry and other stake holders. The Principal and HODs aims to implement the plans and achieve the set targets. Training and Placement officer is responsible for training and placement and industry institute interactions.

Faculty at the Institute includes all cadre categories as Professor, Associate Professor, and Assistant Professor. The Duties and responsibilities are to understand the Quality Management Policy and Quality objectives of Trinity Academy of Engineering, Pune.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
1.2.1	<p>Number of Add on /Certificate/Value added programs offered during the last five years</p> <p>Answer before DVV Verification : 52 Answer After DVV Verification :50</p>																																								
2.1.2	<p>Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)</p> <p>2.1.2.1. <i>Number of actual students admitted from the reserved categories year - wise during the last five years</i></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>114</td> <td>46</td> <td>24</td> <td>24</td> <td>16</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>119</td> <td>49</td> <td>25</td> <td>28</td> <td>16</td> </tr> </tbody> </table> <p>2.1.2.2. Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>204</td> <td>174</td> <td>174</td> <td>204</td> <td>204</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>258</td> <td>217</td> <td>217</td> <td>256</td> <td>256</td> </tr> </tbody> </table> <p>Remark : as per the document</p>	2021-22	2020-21	2019-20	2018-19	2017-18	114	46	24	24	16	2021-22	2020-21	2019-20	2018-19	2017-18	119	49	25	28	16	2021-22	2020-21	2019-20	2018-19	2017-18	204	174	174	204	204	2021-22	2020-21	2019-20	2018-19	2017-18	258	217	217	256	256
2021-22	2020-21	2019-20	2018-19	2017-18																																					
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2.6.2	<p>Pass percentage of Students during last five years</p> <p>2.6.2.1. Number of final year students who passed the university examination year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>210</td> <td>358</td> <td>390</td> <td>323</td> <td>263</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	210	358	390	323	263																														
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
205	344	273	316	242

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
237	366	410	441	334

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
240	350	283	386	299

Remark : as per the documents

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)

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
11.76	10.50	3.89	2.13	12.55

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
16.12186	8.69511	3.51817	1.01	12.31648

Remark : as per the documents

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
28	9	28	11	26

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
32	13	21	10	26

Remark : as per the documents

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
182	23	77	51	54

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
134	15	53	23	32

Remark : as per the documents

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
126	65	41	31	25

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
34	15	28	23	12

Remark : as per the documents

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
32	20	35	16	35

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
31	20	33	13	21

Remark : as per the documents

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.

Answer before DVV Verification :

Answer After DVV Verification :43

Remark : as per the documents

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

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

Answer before DVV Verification : 555

Answer after DVV Verification: 655

Remark : Edited as per the documents

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
645	567	523	657	719

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
736	642	622	704	764

Remark : as per the documents

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
638	785	651	803	1000

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
638	785	795	980	1127

Remark : as per the documents dropping multiple participation

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
177	181	149	151	116

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	17	7

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
184	193	186	262	163

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
205	344	273	316	242

Remark : edited as per the latest documents

5.2.2	<p>Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)</p> <p><i>5.2.2.1. Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years</i></p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 510 1046 645"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6</td> <td>7</td> <td>4</td> <td>5</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 721 1046 855"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>7</td> <td>7</td> <td>4</td> <td>5</td> </tr> </tbody> </table> <p><i>5.2.2.2. Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years</i></p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 1016 1046 1084"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	2	6	7	4	5	2021-22	2020-21	2019-20	2018-19	2017-18	5	7	7	4	5	2021-22	2020-21	2019-20	2018-19	2017-18					
2021-22	2020-21	2019-20	2018-19	2017-18																											
2	6	7	4	5																											
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5	7	7	4	5																											
2021-22	2020-21	2019-20	2018-19	2017-18																											
6.3.3	<p>Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years</p> <p><i>6.3.3.1. Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years</i></p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 1442 1046 1576"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>55</td> <td>140</td> <td>37</td> <td>50</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 1653 1046 1787"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>29</td> <td>57</td> <td>25</td> <td>30</td> </tr> </tbody> </table> <p><i>6.3.3.2. Number of non-teaching staff year wise during the last five years</i></p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 1863 1046 1930"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	120	55	140	37	50	2021-22	2020-21	2019-20	2018-19	2017-18	40	29	57	25	30	2021-22	2020-21	2019-20	2018-19	2017-18					
2021-22	2020-21	2019-20	2018-19	2017-18																											
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2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of teaching staff / full time teachers during the last five years (Without repeat count): Answer before DVV Verification : 116 Answer after DVV Verification : 82</p>																				
1.2	<p>Number of teaching staff / full time teachers year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>61</td> <td>54</td> <td>56</td> <td>69</td> <td>82</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>47</td> <td>49</td> <td>56</td> <td>65</td> <td>74</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	61	54	56	69	82	2021-22	2020-21	2019-20	2018-19	2017-18	47	49	56	65	74
2021-22	2020-21	2019-20	2018-19	2017-18																	
61	54	56	69	82																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
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