SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

TAMILNADU COLLEGE OF ENGINEERING

TAMILNADU COLLEGE OF ENGINEERING KARUMATHAMPATTI
COIMBATORE-641659
641659
www.tnce.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Tamilnadu College of Engineering was sponsored by Tamilnadu Technical Education Foundation (Regd.) established in the year 1984. The Institution was founded by eminent philanthropists **Lion T.N. Palanisame B.A., MJF (Late) and Dr.P.V. Ravi Ph.D.**, who are pioneering educators having unmatched rich experience in the field of education with belief that the continuous perusal of knowledge is the sole path to success. TCE is one of the most reputed and prestigious educational institution in south India. The institute features strong academic industrial interaction and a high quality teaching & consultancy. TCE managed by pedigreed lineage for the past 38 years, enjoys international reputes.

The College is recognized by the Government of Tamilnadu, approved by All India Council for Technical Education, New Delhi and affiliated to Anna University. The college offers graduation studies in 8 disciplines and 3 post graduation studies. 6 under graduation studies got permanent affiliation from Anna University. The college also has effective functioning of clubs such as IO Tech club, (Hands to others) H2O Club, Rotary Club, Tamil Mandram, Red Ribbon, NSS etc., to develop student's intellectual skills and social responsibility.

Tamilnadu College of Engineering was sponsored by Tamilnadu Technical Education Foundation (Regd.) established in the year 1984. The Institution was founded by eminent philanthropists **Lion T.N. Palanisame B.A., MJF (Late) and Dr.P.V. Ravi Ph.D.**, who are pioneering educators having unmatched rich experience in the field of education with belief that the continuous perusal of knowledge is the sole path to success. TCE is one of the most reputed and prestigious educational institution in south India. The institute features strong academic industrial interaction and a high quality teaching & consultancy. TCE managed by pedigreed lineage for the past 38 years, enjoys international reputes.

The College is recognized by the Government of Tamilnadu, approved by All India Council for Technical Education, New Delhi and affiliated to Anna University. 6 under graduation studies got permanent affiliation from Anna University. The college also has effective functioning of clubs such as IO Tech club, (Hands to others) H2O Club, Rotary Club, Tamil Mandram, Red Ribbon, NSS etc.,

Vision

To Develop the institution as a center of excellence providing value added education with all R&D facilities to offer solution to industrial development, moulding youth to practice engineering profession with Confidence, Courage, Competence and Integrity, thereby gaining international acceptance.

Mission

The Tamilnadu College of Engineering will offer high quality education in the fields of Engineering Technology, Applied Science and Management through cutting-edge, State-of-the-art programme at graduate, Post-graduate and doctoral levels.

It will provide numerous opportunities for development of knowledge, skills and professional abilities of its teachers, staff and students with focus on the future.

Concurrently, it will pay attention to value-education and character-shaping so that its students grow to help societies live in peace and prosperity.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Highly qualified, well experienced and dedicated teaching faculty members
- Cooperative Non-teaching staff
- Good teaching and learning environment
- A/C Seminar halls, A/C auditorium and Smart Classrooms.
- Well-equipped laboratories and library
- Faculty with research projects and patent
- Excellent University Examinations results and placement records
- Publications in Research Journals like Scopus, Web of Science and UGC
- Research Centre for Computer science engineering
- Post graduate courses in Civil, Computer Science engineering and management studies
- Increasing Student's enrollment ratio
- Excellent Student mentoring system
- College has excellent co-curricular, extra-curricular activities, sports, community service programs and outreach activities by students and faculty
- our successful alumni are working all over the world
- Institute has collaboration with industries
- Functional IQAC, PTA and Alumni association
- Implementation of Choice Based Credit System
- 6 UG courses are permanently affiliated by Anna university
- Green and eco-friendly campus with renewal energy generation
- Conducive environment for women and ragging-free Campus
- Separate cell for R & D and IPR
- Sports activities and cultural activities show that students have all round capability
- Vibrant Institution's Innovation Cell
- Grant received from various funding agencies to organize conferences, workshops, seminars, etc

Institutional Weakness

- Number of research publications by faculty and students need to be increased
- Patents filing and copyrights of new products must be enhanced
- Job opportunities in core companies for students are to be improved.

Institutional Opportunity

o Opportunity to attract students from across the nation

o Focus on establishing Incubation, EDC infrastructure, and Centres of excellence in thrust areas

o Industry collaboration for consultancy activities

o Getting the alumni resources for undertaking industry relevant projects and

improving employability of students

o Signing MoUs with nearby industries for internship trining.

Institutional Challenge

- Entry of new colleges and private universities
- Saturation in engineering education
- Alternative education system, i.e., on-line, distance and Part time modes
- Declining financial support for students
- Tie up with more industries for developing consultancy activities
- Employment opportunities in core companies

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Tamilnadu College of Engineering provides value based quality education and outcome based learning to the students, in line with its Vision, Mission and Quality Policy. Quality education is imparted to the students with focus on regional, national and global development. The institute is affiliated to Anna University and follows the curriculum and syllabi framed by the university, which is Choice Based Credit System (CBCS). Feedback is collected from various stakeholders like Student, Faculty, Parent, Alumni and Employer. Based upon the feedback, curriculum enhancement in the form of value added courses and professional skill training courses are provided to the students, which enhances the multidisciplinary skills and bridges the gap between the curriculum and industry.

Teaching-learning and Evaluation

The Class room environment available in our country is traditional type with a student of lateral thinking ability. Education is a dynamic process. This dynamic process which develops the student according to the changing situation and times. Educational system is a continuous reconstruction of experiences and life long

process.

Tamilnadu College of Engineering evaluates the learning and understanding capacity of the students individually by conducting various forms of testing systems. Bright, talented and advanced learners are being given various opportunities and necessary support to participate in various events organized by AICTE, State level research Institutions like Hackathons, Project competition at National and International level. Internships are provided from second year onwards to know the latest technologies in the thrust areas and work with the Data science, Artificial Intelligence, Internet of Things, Green environment and Automation. Special coachings are being given to slow learners by the subject handling faculty and improvements are monitored timely.

Student centric methods are adopted to bridge the gap between teaching learning process and the expected outcomes. Experimental learnings are implemented for all the courses.

Academic calendar is prepared before the start of each semester. This academic calendar is containing informations like number of working days, internal assessment test dates, holiday details and the last working day of that semester. The Lesson plan is prepared by the faculty in accordance with calendar to enable to handle the classes smoothly.

The Programme assessment committee and Department Advisory Board meetings are conducted periodically and recommend the suggestions for the improvement of Teaching Learning process and also attainment of Course Outcomes. The performances of the students are completely assessed by the continuous assessments tests and End semester examinations.

Research, Innovations and Extension

Tamilnadu College of Engineering aims to share knowledge through quality education, research and innovation. To achieve this goal, the Institution seeks to strengthen research and innovation activities by motivating members of faculty and students in their desired path of research and career. A notable number of members of faculty are on the verge of obtaining their Ph.D. degrees meeting the simultaneous aspirations of teaching. Even students are also given opportunities to apply for the research proposal for different funding agencies.

Members of faculty are motivated and rendered financial support to apply for Research Grants/Infrastructure to various funding agencies of both Government and Non-Government Organizations. The Institution facilities the faculty in preparing an effective funding project proposals and budget, which are constructive and valuable for the upcoming generation to meet out their needs.

Tamilnadu College of Engineering received funded research projects amounting to Rs.38.07 lakhs from various funding agencies like DST, AICTE, SERB, TNSCST, CSIR, etc., so far. At the outset, around 101 publications have been made by the faculty members in reputed Internatlunad and National journals with good impact factors during the assessment period. As on date, Google scholars citation as 1278, h-index 6, Scopus citation as 43, h-index 5, Web of Science citation as 11, h-index 5. To motivate and support to develop novel and useful innovative products from facilities available and students for the patents, copyrights, design rights

and other related intellectual property rights. Patent filing charges borne by the Institution provided, if the faculty members file their patent on the name of the Institution. 3 patents have been published in the assessment period

Infrastructure and Learning Resources

Tamilnadu College of Engineering campus is located in a sprawling 52.31 acres of lush green Campus with built up area of 46500 sq m. To strengthen an effective teaching-learning environment, the Campus is equipped with 42 class rooms with ICT facilities, LCD projectors, WIFI-LAN, PA system, including 4 smart classrooms with multimedia facility, 2 tutorial rooms, & 4 seminar Halls with ICT facility, 73 laboratories and one auditorium with 1500 seating capacity. Centres of Excellences and industry supported laboratories have been set up. The Institution has Institute Innovation Council supported by Ministry of Education to promote innovation, start up and entrepreneurial ecosystem. The Campus Training and Placement Cell imparts soft skill and technical training to the students. There are two hostels with an overall capacity of 1300. The Institution offers ample facilities for conducting all kinds of sports and cultural activities. The average percentage of expenditure on infrastructure augmentation excluding salary during the last five years 11.54%

The Central Library is located with an area of 1400 sq.mt. fully automated using In-house Library Management System. Sufficient numbers of systems are available in the Digital Library Section with Internet access facility to access the e-resources. The Institution allocates funds towards the purchase of books/e- books and subscriptions to journals/e-journals. The daily usage of the library by staff and students exceeds 25%.

The Institution has 530 computer systems in the ratio of 2:1with 2 higher end servers. The Institution is fortified by Shopos firewall to achieve campus network security. The institution has high capacity Wi-Fi facility through various access points in the Campus with concurrent access speed of 250 Mega Bytes per Second for the faculty and students' utility. The Institution provides online mode of teaching and learning process through Microsoft Teams Platform.

The maintenance of physical, academic and support facilities are carried out by the respective departments with the help of the estate officer /housekeeping staff on daily basis and periodically with an average percentage of expenditure of 29.27% excluding salary component during the last five years.

Student Support and Progression

Student Support and Tamilnadu College of Engineering have a commitment to the motivation and empowerment of students in all areas of their life in the campus. True to the motto "to seek, to strive, to find" the College empowers students through various means to seek, to strive and find excellence in all that they do thereby contributing to their own development as well as the development of the institution. The College admits students from the marginalized sections of the society who are financially challenged and unable to meet the fee requirements of the College. About 77.35% of students benefit through various schemes of Scholarship and the College is committed to disburse the scholarship immediately on receipt of the same to avoid any delay in meeting students' financial requirements. Scholarship benefits are given to all special categories of students such as SC/ST/SCC/BC, minority students, economically weaker students and differently able students. Tamilnadu College of Engineering takes care of the physical and cultural development of students in providing wide range of sports and fine arts facilities. The fine arts club provides much needed entertainment outlet for talented students. With the annual cultural event, the office bearers of the student council prove their mettle in

organizing the various events to bring out the latent talents of the students ensuring that students with different skills are encouraged and empowered. The students of the College have participated in different intercollegiate events and have won laurels for our College to such an extent that Tamilnadu College of engineering is known for its talented students and cultural excellence. Students have benefited from the same and are doing well as minute scale entrepreneurs on assignment basis. Financial prudence is also reinforced through special awareness programmes. Leadership skills of the students are encouraged through the student council, clubs and associations and project based activities. The College takes care of its students even to the point of ensuring their future in different companies through placements in various organizations of repute which is facilitated by an active placement cell.

Governance, Leadership and Management

Tamilnadu College of Engineering has a good Governance system and a well-structured administrative framework which is fully participatory in nature with a strong focus on team effort and commitment. The administrative and organizational framework is steered towards achieving excellence in the planning and implementation of all objectives set for the college through perspective / strategic plan in line with the Vision and Mission of the college. The Vision and Mission are the beacons guiding every aspect of the institution's academic process. The Vision of the college is conceptualized to reflect the provision of good quality education in bringing about individual transformation that finally supports building a better society for the globe.

 A dynamic and potential leadership are in order not only to realize the Mission of the College but also to ensure its overall role in building the name and fame of the college. The Management practices decentralized organizational structure by involving the Principal, Deans/ Directors, Controller of Examinations, Heads of Departments, Faculty members, Non-teaching Staff and Student Representatives in decision making and implementation of various policy matters. A highly motivating environment prevails in the institution for both faculty and staff. The faculty receives constant encouragement to participate in professional development and outside interactions

For better administration and decentralization of powers, the College has statutory bodies, non-statutory committees and several other cells to assist the Head of the Institution. In all the areas of operation, e-governance is applied. The decisions of various committees are implemented effectively and efficiently.

Tamilnadu college of Engineering has well defined policies, procedures and defined bench marks for all kind of activities, implement via guidelines and monitors the progress through IQAC. The college has enough and effective strategies for fund mobilization and its optimal utilization. Quality assurance is enforced in full swing at all levels by the IQAC. The Annual Quality Assurance Report of the College is submitted every year. Feedback on courses and course teachers are obtained from the stakeholders for quality enhancement. The internal and external audits are conducted regularly.

Institutional Values and Best Practices

The Institutional Values and Best Practices of Tamilnadu college of Engineering strengthens the unity of students that National and International events have conducted. The institution has organized gender equity promotion programs regularly. Guest speakers from prominent fields are invited to speak on the given topic which highlights the importance and contribution of empowering women in society. Our institution provides many facilities for women like rest room, CCTV cameras installed for women safety in every block.

The Institution has taken social responsibilities to guard the environment. In this regard, we have done projects to save water in our campus. The Institution has taken initiatives and practices for less usage of plastic. The use of plastics is prohibited strictly in the Campus. The. The Institution initiates energy conservation measures like solar energy, automatic light controller, automatic water level controller, automatic power factor controller, and use of LED bulbs and equipment used for power efficiency.

The Institution has the best way for managing solid wastes, liquid wastes, paper wastes and E-wastes in-line with Green Campus Policy. The practices adopted to maintain waste-management are eco- friendly, economically sustainable and as per regulatory norms. The institution takes all the necessary measures to conserve rain water in the best possible ways.

The institution has organized tolerance and harmony towards cultural, regional, linguistic, communal socio economic values, rights, duties and responsibilities to aware the students.

In our college, we practice various awards and scholarship schemes for students to encourage them in their academics. List of awards: Randeep Memorial Award, Abdul Kalam Award, Alumni Scholarship and Sports Scholarship. Another best practice, our institution, Thulir club, has visited more than 100 orphanages and supported the people out there to listen to their needs and requirements to increase the social responsibility of students.

The Institution has conducted more than hundred tree plantation programmes in different schools and villages to aware school students and village people for green environment.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	TAMILNADU COLLEGE OF ENGINEERING
Address	TAMILNADU COLLEGE OF ENGINEERING KARUMATHAMPATTI COIMBATORE-641659
City	Coimbatore
State	Tamil Nadu
Pin	641659
Website	www.tnce.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	M KARTHIK EYAN	0421-2332544	9894612700	0421-2332588	principal@tnce.in
Associate Professor	R.KARTHIK EYAN	0421-2334944	9865899599	0421-2332588	ao@tnce.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

State	University name	Document
Tamil Nadu	Anna 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	20-07-2022	12	

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	TAMILNADU COLLEGE OF ENGINEERING KARUMATHAMPATTI COIMBATORE-641659	Rural	52.31	46500

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Computer Science And Engineering	48	HSC or Equivalent	English	30	26
UG	BE,Computer Science And Engineering	48	HSC or Equivalent	English	60	57
UG	BE,Civil Engineering	48	HSC or Equivalent	English	30	0
UG	BE,Electronics And Communication Engineering	48	HSC or Equivalent	English	60	44
UG	BE,Electrical And Electronics Engineering	48	HSC or Equivalent	English	30	19
UG	BE,Instrumentation And Control Engineering	48	HSC or Equivalent	English	30	16
UG	BE,Mechanical Engineering	48	HSC or Equivalent	English	30	15
UG	BE,Auomobile Engineering	48	HSC or Equivalent	English	30	8
PG	ME,Computer Science And Engineering	24	B.E. B.Tech	English	9	6
PG	ME,Civil Engineering	24	B.E.	English	18	5
PG	MBA,Mba	24	Any Degree	English	30	22

Doctoral (Ph.D)	PhD or DPhil,Computer Science And Engineering	24	M.E.M.Tech	English	7	4

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				7				11				58
Recruited	3	4	0	7	4	1	0	5	40	18	0	58
Yet to Recruit				0				6				0
Sanctioned by the Management/Society or Other Authorized Bodies				0				0				6
Recruited	0	0	0	0	0	0	0	0	0	6	0	6
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				17
Recruited	14	3	0	17
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				13
Recruited	11	2	0	13
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	3	4	0	3	0	0	1	1	0	12
M.Phil.	0	0	0	0	0	0	2	1	0	3
PG	0	0	0	1	1	0	36	23	0	61
UG	0	0	0	0	0	0	0	0	0	0

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

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

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

01-08-2023 06:03:29

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	168	2	0	0	170
	Female	56	0	0	0	56
	Others	0	0	0	0	0
PG	Male	5	4	0	0	9
	Female	2	0	0	0	2
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	4	0	0	0	4
	Female	0	0	0	0	0
	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	22	16	19	4
	Female	14	5	2	0
	Others	0	0	0	0
ST	Male	1	1	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	116	140	64	34
	Female	54	28	22	5
	Others	0	0	0	0
General	Male	8	15	5	4
	Female	3	1	2	0
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		218	206	114	47

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Tamilnadu College of Engineering is offering various programmes in engineering and Technology. The programmes offered in various streams gain a multidisciplinary status to the institution. CBCS (Choice Based Credit System) is followed and all the courses have specific credits. The courses are named as Core, Elective, Skill based, and Value Based with specific number of credits to each course. All the UG and PG programmes have experiential learning in the form of Projects, Industrial visits and Internships etc. To sensitize the students to environmental issues and to make them eco conscious a course on Environmental Studies is included in the curriculum for all UG students. A course on Value Education

01-08-2023 06:03:30

with a special focus on the essential human and life values is also included in the curriculum. The scope of various programmes and the specific objectives of various courses ensure holistic development of the students. Being an affiliated college of Anna University, it follows the procedures framed by the affiliated University. The institution is limited in enabling multiple entry and exits as the norms are decided by the university which approves each programme offered in the college. Students registering for research programmes will be encouraged to carry out multidisciplinary research that would help in finding out appropriate solutions for the current issues and challenges. All the programmes have a non-major elective course in which the students of a particular programme are exposed to multidisciplinary education by choosing a course in a different domain.

2. Academic bank of credits (ABC):	Our institution follows the procedures of Anna university,Which framed time to time. the teachers are always motivated to implement the new strategies for the benefit of Students In teaching and learning process. besides we have the facility of digilocker, students can use the digilocker account to regiter their name with ABC. students are instructed to register their name with ABC.students are encouraged to do honor degree, minor degree ,NPTEL and swayam online courses to earn more credits.
3. Skill development:	Most of the programmes have courses which will enable the students to enhance their skills for placement and entrepreneurship. Soft Skill enhancement is achieved by conducting special programmes on Soft Skill Development with experts in the field. Besides teaching the curriculum, the institution takes various initiatives to offer value based education. Life Skill Programmes are conducted to promote life values. Important days like Voter's Day, Untouchability Abolition Day, Environment Day, National Integration Day, and many other important days / events of national importance are celebrated to promote national integration. Competitions are conducted on such occasions to motivate the students and to inculcate positivity in the young minds. A course on Value Education is also a part of the curriculum that helps in enhancing the humanistic, ethical, and universal values. Every student admitted in the college at the

	Under Graduate level is supposed to enroll in any of the cell or club like NCC, NSS, YRC,RRC, Eco Club, etc, which is mandatory for graduating. Life skill programmes like Yoga, Mediation, Women Safety, Health and Hygiene, etc, are organized with the services of industry experts who offer hands on training.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Since its inception the college has been promoting the culture and heritage of our nation by celebrating festivals and conducting competitions. Being a higher Education institution, the college adopts English language as the medium of instruction as per the University norms. The institution has also observed the difficulties faced by students with the use of English for class room instruction. Taking the socioeconomic, cultural, and linguistic backgrounds of the students into consideration the teachers are also encouraged to go with bilingual method of teaching. It is also found that the students' receptive skills has enhanced with bilingual mode of delivery. As most of our students hail from rural backgrounds and for a better understanding of the subjects taught bilingual method of delivery is encouraged in almost all programmes
5. Focus on Outcome based education (OBE):	Outcome-based education is a system where all the parts and aspects of education are focused on the outcomes of the course. The students take up some elective courses with a certain goal of developing skills or gaining knowledge and they have to complete the goal by end of the course. There is no specific style or time limit of learning. The student can learn as per their choice. The faculty members, moderators, and instructors guide the students based on the target outcomes. The programmes and courses prescribed in the syllabi have specific programme and course outcomes. In curriculum design and development sufficient representation is made to the affiliating university. Skill based courses, Job seeking courses, Internships and Project works are a part of our syllabi to make our education outcome based. The teaching learning process is also more learner centric. Students' assessment is made through continuous internal assessments like assignments, seminars, peer team teaching, group discussions, and quizzes.
6. Distance education/online education:	Being an affiliated institution, the college offers only

regular programmes. No programme is offered through online or distance mode. Earlier, the most popular method used for teaching was chalk and talk method. In the recent times, the education industry has been completely digitalized with the advancements in Science and technology. Our college promotes the use of ICT in teaching learning process. The infrastructure and ICT facilities of the college are continuously augmented by our management to meet out the existing demands. The post Covid scenario has increased the use of many virtual platforms in teaching learning. Both the teacher and student community are now comfortable with many online tools for teaching. During the pandemic the institution has made the best use of blended learning. Online exams, online quizzes,webinars, online assignments along with regular physical classes have been tried by the institution as a part of blended learning.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes Staff Coordinator for the year 2022-2023: 1.Mr.L.Periyasamy 2.Dr.P.Dharmalingam 3.Mr.V.R.Palaniappan Student Coordinator for the year 2022-2023: 1.Mr.A.Madhavan 2.Ms.A.Brindha
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.	Voters Awareness camp conducted at varios tehsil places in Coimbatore and Tirupur DIstrict Voters Awareness camp conducted for disabled person & Senior Citizen at nearby Villages
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	Conducted Voter awareness drive

advancing democratic values and participation in electoral processes, etc.	
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	Voter awareness program in the institution to enroll the students above 18 years as voters in the electoral roll

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
617	505	526	667	1077

File Description	Document
Upload Supporting Document	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2 Teachers

2.1

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

Response: 171

File Description	Document
Upload Supporting Document	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2.2

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

2022-23	2021-22	2020-21	2019-20	2018-19
76	99	108	127	126

3 Institution

3.1

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

2022-23	2021-22	2020-21	2019-20	2018-19
288.22	253.66	165.92	205.26	347.58

01-08-2023 06:03:30

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Tamilnadu College of Engineering is affiliated to Anna University, Chennai and following the Curriculum and Syllabus of Anna University. The delivery of curriculum is being monitored through a well planned, maintained and documented process. Our Institution is adopting student centric Teaching Learning process to reach the Blooms top level.

In addition, all academic activities are well planned and implemented effectively to achieve the core values like Innovation, Consistency, Interdisciplinary, Global competency and sincere commitment towards moral ethical values, social responsibility, life education and overall contribution to the Nation's development. In order to improve and enhance the responsibility and overall leadership development and to create innovative thinking, our Institution provides Mini Project work, Project work and Internship programs in the areas which are related to latest technological developments. Further, to achieve the Mission and Vision of our Institution, our Institution is offering open electives and conducting Value Added Courses.

Three Internal Assessment Tests(IAT) for the under graduate and Post graduate students under 2017 Regulations and two internal assessment tests under 2021 Regulations are being conducted by the centralized manner through Examination cell. The IATs are conducted smoothly with proper seating arrangements as per the guidelines stipulated by the Anna University. Grievance mechanism is followed and various complaints given by the students are addressed promptly. When the students failed in the respective subjects, one more opportunity is given to students by conducting retest to improve their marks. Then statement of marks are prepared, get it approved by the Head of Institution and the marks are entered in the Anna University web portal. Finally, the marks awarded by the students and the attendance percentage are communicated to their parents. Based on the performance of the students in the IAT, the faculty members are advised to identify the slow learners and arrange coaching classes.

An Academic calender with Date of Reopening (DOR), schedule of IAT, holidays and Last Working Day (LWD) is prepared in accordance with Anna University academic schedule. Besides the subjects are allocated to the faculty members in a systematic manner by considering their expertise, percentage of results produced previously, experience and willingness. All the faculty members are advised to prepare lesson plan before the commencement of the classes.

In addition to the conventional methods of teaching, we are providing online platform in the form of Google Class room and adopting ICT enabled teaching methods to have exposure in the online learning system. In order to know the various technological developments taking place in the respective discipline, we are also arranging Guest lectures. Three class committee meetings are conducted in a semester to know about the systematic and smooth conduct of classes, academic progress and any other grievances raised by the students are rectified promptly. Two mentors are deputed for every class to monitor the students.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

1.2 Academic Flexibility

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

Response: 76

File Description	Document
List of students and the attendance sheet for the above mentioned programs	[View Document](#)
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Evidence of course completion, like course completion certificate etc. Apart from the above:	[View Document](#)

Other Upload Files	
1	[View Document](#)

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

Response: 97.85

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

2022-23	2021-22	2020-21	2019-20	2018-19
614	505	475	664	1061

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

1.3 Curriculum Enrichment

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

Response:

Student interaction plays an important role in learning in higher education. Our institution creates an environment in which people treat each other with dignity, courtesy, and respect while also promoting an open and critical exchange of ideas to make student interaction more effective. The cross-cutting issues like gender, environmental sustainability, human rights, professional ethics, etc., find plenty of space when it comes to applying them positively to the curriculum.

Professional ethics

The study of ethics helps a person look at his own life critically and evaluate his actions, choices, and decisions. It assists a person in knowing who he or she really is, what is best for him or her, and what he or she has to do in order to attain it. The study of moral philosophy can help us think better about morality. A profession is a commitment to a designated and organized occupation by virtue of being an authority over a body of knowledge with requisite skills acquired through specialized training. An occupation becomes a profession when a group of people sharing the same occupation work together in a morally acceptable way, with members setting and following a certain ethics code.

Gender sensitization

It aims to provide an integrated and interdisciplinary approach to understandthe social and cultural status of gender and how that shapes the experiences of women and men in society. The main objective of gender sensitization is to create awareness with regard to equality in the law, social systems, and democratic activities. Women and men are qualified to do the same jobs as men. Their skills may show differently, but they are qualified to do the same jobs as men. We should stop classifying professions on the basis of gender. There is no gender in success, and gender does not determine skills; men can make up very well, and women can drive very beautifully.

Human values

The services provided by engineers require honesty, impartiality, fairness, and equity and must be dedicated to the protection of public health, safety, and welfare. Engineers must perform under a standard of professional behavior that requires adherence to the highest principles of ethical conduct. Human values embrace the entire range of values pertinent to the human condition, including interest, behavior, and aspiration. While laws are a set of rules for personal or corporate behavior, and working against such rules will attract recrimination and punishment, morals, on the other hand, are a set of standards for personal behavior, and ethics are a set of standards for professional behavior. Morals and ethics are self-imposed,

01-08-2023 06:03:30

regulated, and voluntary when broadly interpreted.

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: 69.85

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

Response: 431

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.4 Feedback System

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

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

File Description	Document
Feedback analysis report submitted to appropriate bodies	[View Document](#)
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	[View Document](#)
Action taken report on the feedback analysis	[View Document](#)
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 31.54

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

2022-23	2021-22	2020-21	2019-20	2018-19
218	206	114	47	135

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

2022-23	2021-22	2020-21	2019-20	2018-19
357	357	357	546	666

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list as published by the HEI and endorsed by the competent authority	[View Document](#)
Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

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

Response: 40.18

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

2022-23	2021-22	2020-21	2019-20	2018-19
207	190	107	43	120

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

2022-23	2021-22	2020-21	2019-20	2018-19
247	247	247	377	542

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

2.2 Student Teacher Ratio

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

Response: 8.12

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

Response:

Student centric teaching learning process is aware of students and their needs. It focuses on the instruction, which is shifted from the teacher to the students with the end goal of developing autonomous and independent students by placing the responsibility of learning in the hands of the students. Engineering and

Technology has effectively applied student-centric learning to gain Outcome-Based Education (OBE) through experimental, participative, and problem-solving methodologies.

Experiential Learning:

Fast track students are allowed to attend an internship program in their final semester to bridge the knowledge level of the students from academic to real-time industrial requirements. The students are motivated to attend a 10-day internship or in-plant training to enhance their practical experience Industrial visits are organized regularly for the students in gaining knowledge on design, development, testing, and support in project management.

Practical courses are made compulsory in the curriculum and a record book is maintained in the department. Maintenance and Repairing activities of various lab equipment. Students are motivated to take up innovative projects and mini projects Students can develop their career through one month vocational training and internship for placement. Final year group project gives the empirical knowledge to reach the goal. Students are allowed to visit nearby industries for the research process. Displaying senior students project achievements on a regular basis to motivate the younger students.

Participative Learning:

The course syllabus is framed with an inbuilt lab and the topics with modern software/simulation tools. Value Added Courses of one credit are organized to upgrade the knowledge of students in emerging technologies. Laboratory activities, project exhibitions, symposiums, and conferences are conducted to help students to bring their ideas into a working prototype. The students are provided the opportunity to participate in exhibitions and to present their ideas.

Course-related workshops and seminars are organized for all the students to provide hands-on training in their respective fields.They participate in various technical programs like seminars, workshops, conferences, etc. The students are encouraged to participate in co-curricular and extracurricular activities conducted by Intra College and inter- college events. The students utilize modern digital learning resources such as the National Digital Library of India and Spoken Tutorial to enhance their learning experience.

Problem solving methodologies:

The students are encouraged to learn Swayam-NPTEL courses and credits earned are transferred to them. The students are motivated to participate in all India-level technical events like the Smart India Hackathon

as a team of students to showcase their innovative ideas. The tutorial classes are conducted for the students to develop their in problematic related subjects.

ICT Tools:

ICT based learning In education, ICT is the mode to support, enhance, and optimize the delivery of information through paper presentation and publications. To promote learning skill, student are promoted by web-assignments and web-quiz. Students are given a case study to shape their presentation skills.

Course Delivery Methods:

- Seminars
- Mini Projects
- Technical Reports
- Google Classroom
- Case Studies
- PPTs
- Youtube and NPTEL videos
- Mobile learning
- Experimental training lab
- Experimental work class
- Assignments
- Quizzes
- Real life examples

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: 100

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

2022-23	2021-22	2020-21	2019-20	2018-19
76	99	108	127	126

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

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

Response: 11.19

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

2022-23	2021-22	2020-21	2019-20	2018-19
10	11	12	11	16

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

2.5 Evaluation Process and Reforms

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

Response:

All faculty members explained the internal and external marking procedures at the beginning of each semester for students. Test schedules for internal exams are created and distributed to students in advance. Test administrators are placed in the room to ensure a fair test, and within three working days, a faculty member who specializes in that area evaluates the test's answer sheets. By presenting the student with the revised answer sheet, internal examination grievances are resolved. After comparing their answers to those of other students, they frequently feel aggrieved. By citing the justification for the difference in marks, the evaluator or concerned faculty member satisfies this. There is no cause for complaint in this area because the entrance and exit rules are rigorously followed.

Internal mark entry process these entered marks shall be transparently viewed by students through login. And transparency in time table our students can view the marks in the portal.

The academic calendar is used to determine the internal examination schedule at the start of the semester. According to the academic calendar, a teacher must complete a unit test. This test may take the shape of a written exam, a blackboard presentation, a subject quiz, or any format that the subject instructor determines. The results of the unit test are displayed in the classrooms, and each student is free to inquire about their performance. They have access to see their test copies. A record of the mark earned is recorded in the register.

Each paper in the model examination is sent with a 10% internal mark Students also perform presentations on the whiteboard. A student must submit his or her response in front of the class. This technique helps a pupil overcome his shyness and boost his self-confidence. This approach is excellent for helping students build their personalities. The copy of the student is stored in the internal-examination section once they have seen the answer sheet. The marks and copy can both be shown in the same session. However, this grade does not raise the student's academic score on the yearly exam. A student in PG classes is required to show up for the internal exam. The university receives the grade and will include it on the semester grade sheet. The Academic Calendar, which is displayed well in advance of the start of the session, contains the schedule for Class Assessment Tests, Sessional Examinations, and Assignments.

The CAT-I and CAT-II, model examination question banks are presented in advance by the course instructors. Each exam lasts one hour and is scheduled according to the academic calendar. Internal exams are held throughout the semester as part of the evaluation system, which is intended to monitor and record the student's development over time.

Revaluation and photocopy are allowed to apply for the students if they have any quires, related to marks.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

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

Response:

TCE constantly strives to provide education that is outcome-based and to develop students into competent, socially responsible engineers. The goals, vision, and purpose of the college all include learning outcomes. The Affiliating University, Anna University, defines Programme Outcomes (PO) and Programme Specific Outcomes (PSO), and these are adopted. The major goal of an engineering college is to ensure that graduates who have completed their degree are competent. This is accomplished through meeting the course, program-specific, and overall programme objectives. Every course's course outcomes statements are created by taking into account both the required student competencies and the course's material. Programme Outcomes, Programme Specific Outcomes, and Course Outcomes are all available on the college website, and printed copies are also stored in the library and HOD office.

The principal's speech to students and parents, alumni gatherings, and staff distribution in the classroom are just a few of the ways that the learning objectives are shared. Alumni are encouraged to interact with the students and teachers to discuss how the different courses influenced their professional lives.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.6.2 *Attainment of POs and COs are evaluated.* **Explain with evidence in a maximum of 500 words**

Response:

The attainment of Course Outcomes can be calculated after every assessment continuously in each semester through the Course Outcomes set by university with the help of performance in Internal Test, Assignments, Course End Semester University examination.

CO Attainment= 75% of Internal performance + 25% of External Performance

The course handling faculty evaluates the answer scripts of all the Internal Assessment Test (IAT). For theory courses, the internal assessment is based on the students' performance in 3 Internal Assessment Test (IAT) namely IAT 1, IAT 2, IAT 3 and the external assessment is relied on the end semester university examinations. The COs target for each of the courses is set as equal to the maximum attainment level.

Internal performance is calculated from the performance of students in the internal assessment and Assignments. Internal tests are conducted as per the academic calendar and the assignments. External

performance is calculated from end semester university examinations

At the end of every academic year, the Course Outcome attainments for all the courses undergone in the academic year will be calculated.

Principal and respective department HoDs will review the POs and PSOs of every academic year of students passing out from that particular department and identifies the area required for improvement. HoDs will implement the suggestions arrived at the deliberations during subsequent years to achieve the vision and mission of the institution.

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

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

Response: 78.32

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

2022-23	2021-22	2020-21	2019-20	2018-19
36	114	229	243	245

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

2022-23	2021-22	2020-21	2019-20	2018-19
70	125	229	253	430

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll as per data template	[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 38.07

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	4.43	4.54	29.1

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.2 Innovation Ecosystem

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

Response:

To nurture a culture of entrepreneurship in the creative minds of young engineers, so that their ideas are implemented into newer products or services that have marketing potential. Students from all branches work in collaboration at Incubation Center. The primary purpose of the incubation center is to facilitate the creation of ideas and inventions that benefit society and importantly, are commercially ready by the end of incubation program. To simulate entrepreneurial spirit & innovation promotion among the students and the local community for the successful development of new businesses and employment generation in specific sectors that are aligned with the unique opportunity of this region. Create a conducive environment and to provide necessary support and services to our students to start their own business after their graduation. To create a result driven environment for stimulating growth in business and economic

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: 43

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

2022-23	2021-22	2020-21	2019-20	2018-19
7	9	8	10	9

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: 0.13

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

2022-23	2021-22	2020-21	2019-20	2018-19
7	8	2	1	5

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	[View Document](#)
Link to re-directing to journal source-cite website in case of digital journals	[View Document](#)
Links to the papers published in journals listed in UGC CARE list or	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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

Response: 0.69

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

2022-23	2021-22	2020-21	2019-20	2018-19
18	26	24	21	29

File Description	Document
List of chapter/book along with the links redirecting to the source website	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	[View Document](#)

3.4 Extension Activities

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

Response:

Extension Activities refer to activities that engineering colleges undertake to serve the society and community beyond their academic and research mandates. These activities are aimed at creating social awareness, building community relations, promoting Social justice and contributing to the overall Welfare

of society.

Tamilnadu College of Engineering encourages staff and students to actively participate in programs involving social issues, for their holistic development. Our Institute works with neighboring community and carries out a range of extension programs to help on the needs of neighborhood under various schemes. As an academic institution, the institution strongly believes in the welfare of the students by providing valuable education both in and out of our premises. We not only lend hands to uplift the students inside our college through education, we also educate the villagers, students of all cadre in the neighbouring community for their upliftment in the society.

Several Community sensitization social issues are also addressed by our NSS volunteers which include, Rally for environmental awareness ,Election awareness program,Covid-19 awareness Program, Plastic Removal for Fit India. The campus cleaning campaign is also done by our NSS volunteers for maintaining the campus green, clean and offering an eco-friendly environment to all its stakeholders.

Through these extension activities our college faculty has received awards and recognitions from various government recognized bodies. Dr.M.Seethapathi (HoD/Civil), Mrs.G.DivyaMohanaPriya (AP/ECE), Ms.V.Saranya (AP/CSE) has received Innovative Technological Research & Dedicated Excellent Professional achievement award from The Society Of Innovative Educationalist And Scientific Research Professional, Chennai, a Govt. Recognized Organization. Dr.G.Saravanakumar (HoD/EEE) has been awarded as The Distinguished Leader from the Venus International Foundation for his vast service to the community. Dr.A.S.Shanthi has received SevaRatna Award from the International Tamil University.

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:

Extension Activities refer to activities that engineering colleges undertake to serve the society and community beyond their academic and research mandates. These activities are aimed at creating social awareness, building community relations, promoting Social justice and contributing to the overall Welfare of society.

Tamilnadu College of engineering encourages staff and students to actively participate in programs involving social issues, for their holistic development. Our Institute works with neighboring community and carries out a range of extension programs to help on the needs of neighborhood under various schemes.

- National Service Scheme (NSS)
- Youth Red Cross (YRC)

The various social issues addressed by our NSS volunteers include, Youth for Clean India, Pollution Awareness Program, Medical Camp, Blood Donation Camp, Tree Plantation Program. Several Community sensitization social issues are also addressed by our NSS volunteers which include, Rally for environmental awareness ,Election awareness program,Covid-19 awareness Program, Plastic Removal for Fit India.

 The campus cleaning campaign is also done by our NSS volunteers for maintaining the campus green, clean and offering an eco-friendly environment to all its stakeholders.

Through these extension activities our college has received awards and recognitions from various governments and government recognized bodies, these include

- ○ Appreciation letter from Ramakrishna Hospital for Blood donation camp.
- ○ Contribute Tree Plantation to different areas in and around Karumathampatti,Coimbatore

Received Green audit report from Ram Kalam center.

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

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

Response: 41

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

2022-23	2021-22	2020-21	2019-20	2018-19
9	9	8	6	9

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

3.5 Collaboration

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

Response: 59

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	[View Document](#)
List of year wise activities and exchange should be provided	[View Document](#)
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

01-08-2023 06:03:30

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and other facilities for,

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

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

Response:

Tamilnadu college of Engineering is run by Tamilnadu Technical Educational Foundation, Tirupur which was established in the year 1984 and founded by philothropist and eminent educationalist Dr.P.V.Ravi. The college is located on NH 544 with a sprawling and lush green campus. The college is strategically located in 52.31 acres campus, with a built up area of over 46500 square meters for academic activities and over 18900 square meters for amenities and hostels. With a view to facilitate the excellent learning environment, our Institution is having very good infrastructure and dedicated faculty.

Our Institution is having well equipped Laboratories , 38 Class rooms, 2 Drawing halls, 7 Seminar halls, 1 Conference Hall, staff rooms, toilets, administrative area, etc. and all supportive aids/facilities as per the AICTE requirements to cater the academic needs of the students.

A. Classrooms

In order to provide conducive environment, all the class rooms are constructed spaciously as prescribed by AICTE and fitted with proper lightings and equipped with modern furnitures. In order to provide natural lightings, all the class rooms are provided with good ventilation. All the class rooms are equipped with ICT tools and LCD projector.

B. Laboratories

All the Laboratories are designed and constructed in accordance with the AICTE requirements. Each laboratory is provided with technician to maintain the laboratory, servicing the laboratory equipments and to provide constant support during the Laboratory sessions. With a view to provide hands on training and better field exposure to the students, all the laboratories are equipped with good quality and modern instruments/equipments.

C. IT and ICT facilities

The total number of computers in working condition 530 available as per the AICTE requirements (486 computers for student purpose and 44 computers for administrative purpose), Printers, Scanners and servers are provided to the user segments for academic and administrative purpose. All the computers are connected with UPS backup to enable to safe guard the data while using computer for faculty and students. Our Institution having internet connectivity of Band width 50Mbps with Wi-Fi facility to the entire campus.

D. Facilities For Sports, Gym & Yoga

Our Management takes special care in the all-round development of our students. There is a lot of encouragement for the students to participate in various sports and cultural activities simultaneously and thus they are awarded and rewarded accordingly. Our Institution equipped with very good infrastructure in regards to sports activities to the students to take part in sports. Separate Yoga centre is provided to do the Yoga practice and meditation purpose to make the students mentally fit enough. Gymnastic facility is also available to make the students physically fit.

E. Facilities For Cultural activities

All the students are encouraged and permitted to participate actively inside and outside the campus to expose their cultural talents. To facilitate and carryout all the cultural activities of our college students, our Institution is equipped with very good Auditorium designed with good acoustical requirement.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

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

Response: 11.54

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

2022-23	2021-22	2020-21	2019-20	2018-19
51.79	6.78	7.21	34.85	44.88

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

4.2 Library as a Learning Resource

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

Response:

subscription to e-resources, amount spent on purchase of books, journals and per day usage of library [20]

The College was established in 1984. It was the first self-financing college of Tamilnadu. During the year 2003 a new library building was (Academic resources center) constructed with centrally air-conditioned facility. It is situated in the mid of the campus. The total area is 1400 sq.mt. It has the seating capacity for 250 readers. It plays a vital role in enhancing the quality of academic and research environment in Education institutions. It has a place where huge collections of academic books, journals, magazines, reference books and newspapers. These reading materials in the library are collected to serve the reading requirement of the students and faculty members to increase their knowledge and also to utilize the internet, e-books, e-journals etc. are available in the digital library.

Library Automation

 "MODERNLIB" library automation software has installed in the year of 2016. It is very useful for the users to retrieve the information of books with title, author, issue, return, queries etc. using through OPAC (Online Public Access Catalogue) system. it also useful for the Library administration and records keeping

The following regular activities have done through the automation software:

User entry -Student & Staff

1. Resources Entries
2. Resource Issue & Returns
3. Dues Collection
4. OPAC
5. Barcode facilities
6. Reports –issue , return , user entry register, etc

Subscription to e-resources

The library has subscribed DELNET to the institutional membership for accessing all e-resources (e-journals, e-books, databases,

- DELNET (Developing Library Network) - www.delnet.nic.in
- NPTEL (National Programme on Technology Enhanced Learning) https://nptel.ac.in/
- NDL (National Digital Library) - https://ndl.iitkgp.ac.in/
- SWAYAM_MOOCS - (Study Webs of Active-Learning for Young Aspiring Minds) https://swayam,gov.in /
- National Knowledge Network https://nkn.gov.in/
- InfoPort https://infoport.inflibnet.ac.in/
- Talks to Teacher https://www.ted.com/playlists/182/talks_from_inspiring_teachers
- A-VIEW http://aview.in/
- Virtual Labs https://www.vlab.co.in/
- FOSSEE https://fossee.in/

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection *Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words*

Response:

1. IT Policy of the College

Internet connectivity is provided to all the faculty, staff and students in the campus in accordance with the IT policy of the college. It includes ethical usage of the internet and guides the users segments in relevance to the law, rules and regulations of the nation. All the user segments are advised to agree the terms and conditions not to involve illegal and unethical activities. Further, they also advised to away from activities resulting in compromising the data security and integrity of cyber infrastructure of the Institution. The same policy is uploaded in the college website for reference.

2. Rules for IT facility usage

The facility related to IT infrastructure available in the campus to use freely and fair access to information by faculty, staff and students. In addition, the same facility is playing a major role in administrative and

the conduct of the examinations of the Institution. The IT policy is also controlling for safe and effective use of online and offline information technology.

3. Website – Secure Hosting

In order to secure domain our internet facility, the college has procured https://tnce.ac.in. The sub domain is provided to all the staff and students on the main domain. The same is relying on secure communication protocol for information exchange.

4. Provision for Firewall

Dedicated firewall protection sourced from SOPHOS to secure our college intranet. To secure network traffic on the college premises, both hardware and software firewalls are provided.

5. Maintenance of Server Logs and Provision for Backup

All the servers are enabled with automatic backup. Backups are made on to separate storage media that are kept in a secure location outside the server room. This will help to ensure the security and data redundancy in the event of unexpected server failure. Server traffic is being monitored through signs of unusual traffic. IP addresses are provided to all systems from which, all the unwanted and illegal activities are detected and those IP addresses will be blocked.

6. Use of Official Email Address for all communications

Our college provides official email addresses to all students and faculty members (of the format id@tnce.in). All the official communications are handled only through official email ids.

7. Licensed Software and Policy to Promote Free and Open Source Software

The college has procured adequate licensed version of softwares which are required as per norms and also promote to use open source software available from all quarters. In connection with the above the college has deployed open source OSS.

1.**Sufficient Bandwidth Connection:**

Round the clock internet service is available and it is provided to the faculty, staff and students in the campus with 50 Mbps line. All the computer system provided with internet connections in all sections of the college and UPS backup also provided to access the internet without any disruption.

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: 1.16

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

Response: 530

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

4.4 Maintenance of Campus Infrastructure

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

Response: 29.27

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

2022-23	2021-22	2020-21	2019-20	2018-19
142.265	36.409	36.374	75.260	78.684

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

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 77.36

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

2022-23	2021-22	2020-21	2019-20	2018-19
582	410	423	479	730

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	[View Document](#)
Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).	[View Document](#)
Upload policy document of the HEI for award of scholarship and freeships.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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

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

Response: A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	[View Document](#)
Report with photographs on ICT/computing skills enhancement programs	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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

Response: 48.44

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

2022-23	2021-22	2020-21	2019-20	2018-19
172	156	329	432	554

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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

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

Response: A. All of the above

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

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: 80.85

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

2022-23	2021-22	2020-21	2019-20	2018-19
59	123	207	196	310

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

2022-23	2021-22	2020-21	2019-20	2018-19
70	125	229	253	430

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

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

Response: 6.13

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	1	5	5	2

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.3 Student Participation and Activities

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

Response: 33

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

five years

2022-23	2021-22	2020-21	2019-20	2018-19
17	9	0	2	5

File Description	Document
Upload supporting document	[View Document](#)
list and links to e-copies of award letters and certificates	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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: 36.4

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

2022-23	2021-22	2020-21	2019-20	2018-19
50	49	20	29	34

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.4 Alumni Engagement

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

Response:

Alumni are formed by students who are finished in school, College and University. In this institution of TCE, Coimbatore started in the year of 1988.TCE, Coimbatore first private Engineering College in Tamilnadu. These alumni's are beautifully taking their juniors as part of their family .The TCE, Coimbatore alumni was registered in the name of **"TCE ALUMNI CHARITABLE TRUST"** in the year of 2017.These alumni was mainly started for helping poor people who were not able to pay the college fees

and helping to get good job after successfully complete the degree.

The TCE, Coimbatore alumni trust located in Palanisami Ravi Nagar, Karumathampatti, and Coimbatore-641659.The head of the TCE alumni trust Mr.Senthil, Tirupur and Treasurer of the TCE alumni trust is Dr.K.Sampathkumar, and Dr.K.Krishneswari Coimbatore.

They are organizing different types of programs such seminars, Guest lectures and carrier guidance. Few students have been recruited by the alumni members and offer letters has been issued. Scholarships are awarded for the students every year for their best academic performance in the name of "Dr.APJ.AbdulKalam Memorial Award" and "Kamarajar Memorial Award". Best Academic performer for the year has been selected from every department and their tuition fee has been undertaken by the alumni members. The TCE Alumni Trust Sponsored latest new Lab Equipment's to the college.

Every year Alumni meeting will be conducted and discussed about the enrichment of the college. Alumni Members brought up with new ideas and technologies for the development of the institution and the growth of the students.

During Covid, Our Alumni Association members have actively worked on helping poor and needy people for the basic requirement of food and other needs. Our Alumni Association is arranging medical camp for the students and faculty members of TCE every year. Students are provided with internship during their vacation period in the companies of Alumni members.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

Reflection of Mission and Vision in the leadership of institute Policy and Planning:

The Principal and Heads of Department create a plan of action by conducting meeting and discussing with faculty members. Possible outcomes regarding the plan of action is collected from various functional committees and The Principal reviews the same to ensure implementation considering necessary corrections or changes if required. Policy making and planning are done by the Principal considering implementation of the National Education Policy (NEP) and he creates a consolidated plan of action with the help of the data collected after interaction with various stakeholders and also including the feedback obtained from IQAC.

Interaction with stakeholders and faculty:

All the stakeholders are involved in the different activities which are ensured by the Principal. Decisions making in future endeavours, implementing the plan of action and formulating perspective / strategic plans are done by the individual faculty members who are designated into various committees.

Academic and Administrative bodies:

The topmost position in the administrative hierarchy is held by both the governing body and the IQAC. This top team is created comprising of renowned academicians, administrators and industrialists. Taking the vision and mission statements of the institute into account, the team formulates the rules for Academic and Administrative operations. The vision, mission, short term plans and long term goals are made available to all the stakeholders for their suggestions. Faculty members and supporting staff are supplemented with necessary training to enhance their skill set and also they are motivated in team building to maintain a healthy work environment. The management of the college is also provided with a participatory role which will help encourage the involvement of the staff thereby ensuring the effective running of the institute.

Decentralization and participation in the institutional governance:

The institution practises decentralization and participatory management in keeping with its belief in collective leadership and democratic traditions. The success of an institution is the result of the combined efforts of all who work towards attaining the vision of the institution. From the top level management to staff and students, all the stakeholders have a role to play in building of the college. Their involvement and cooperation in devising and implementing decision making policies for academic and administrative affairs through various bodies and committees have contributed to the growth of the college.

College Governing Council takes care of financial management and the implementation of facilities for the institution with the cries to upgrade the standard of amenities which supports effectively the teaching learning and research aspects. Various committees have been provided with specific functions cater to the needs of institution for the on-going progress and development of the Institution. It guides and articulates the available resources and provides freehand to the head of the Institution to carry out the activities in order to reach the expected maximum standard in turn to motivate the teaching and non-teaching faculty to work according to the goal set.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.2 Strategy Development and Deployment

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

Response:

Describe one activity successfully implemented based on the strategic plan within a maximum of 500 words

To improve academic programmes, build better lives with management skills for our students our institution plans the syllabus along with different strategies to achieve its goals which reflects in institutional perspective plans. We make almanac of the college in the beginning of the year. This is circulated to all the departments to reach our target. As per the almanac national or international seminars are conducted along with educational trips.

We introduce new programmes with new combinations in UG & PG as per the need of the hour which are certificate courses, add-on courses, and skill development courses. Teachers and students are encouraged to attend and present papers in reputed journals, national or international seminars etc. The college encourages the students for different educational trips like visiting industries for research, extension activities and also to extract finance from industries under corporate social responsibilities. An example or case study as per the strategic plan is that our college provides legal, health, psychological and placements counselling for our students which make them to stand on their own individuality. Under legal counselling the college takes the help of its sister institutes.

Under psychological counselling a psychological counsellor is appointed who regularly comes on every Saturday to the college. Interested students who want to discuss their problems they visit the psychological room and meet the counsellor. Now a day's students are depressed, over excited and want to achieve many things in short time. In this modern technological society their expectations are very high and are away from reality and happiness.

The Institution has plans for the development of Strategic /perspective plan for the periodfrom 2018-2023

1. To get and NAAC accreditation for the Institution.
2. Achieving a good placement record
3. Anna University recognised Research centre
4. Achieving Academic excellence by curriculum enrichment and fostering experiential learningthrough ICT. (Vision).
5. Implementation of conduct the Value added courses.
6. To introduce Department Advisory Committee.
7. To introduce student Grievance redressel committee.
8. Facilitate innovative teaching, learning and assessment methods.
9. Organise conferences/workshops at the regional, national and international levels.
10. Involve alumni as resource persons for workshops and invited talks.
11. To Implementation of R.O Plant.
12. Green Environment Campus.
13. To Increase R& D work.
14. Alternate Energy Resources.
15. To Improve Transport Facility.
16. To increase the club activities.
17. To increase the social activities.
18. Upgrade infrastructure wherever possible.
19. To Increase Entrepreneurial Awareness activities.
20. To start incubation centres in various departments.
21. To take initiatives for Patents filling.
22. To actively participate in community based programs like Swatch Bharat. Sapling plantation programs, blood donation camps, NSS activities etc.

One activity successfully Implemented based on the strategic plan:

Activity Fifteen was successfully completed to improve transport facility for the student community and Faculties in and around Coimbatore and Tiruppur.

File Description	Document
Upload Additional information	[View Document](#)
Institutional perspective Plan and deployment documents on the website	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.2.2 *Institution implements e-governance in its operations*

1. **Administration**
2. **Finance and Accounts**
3. **Student Admission and Support**

4.Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	[View Document](#)
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	[View Document](#)
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	[View Document](#)

6.3 Faculty Empowerment Strategies

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

Response:

The Performance Appraisal Policy is intended to measure workplace performance in the organization, to help employees achieve the goal. This requires not only better infrastructure, but also efficient teaching and learning methods. To assess the success of the inputs, it is important to understand whether the user of these facilities is actually satisfied and obtain what is expected. The role of faculty members in producing competent and employable engineers is vital in engineering educational institutions. So, it is necessary to systematically assess their performance and apply appropriate remedial measures to ensure good quality education. The Performance-Based Appraisal System, which consists of a Self-Assessment Form (SAF), is an auditable system for assessing faculty's teaching and other related activities, Domain Knowledge, Ph.D provision, seminar leadership quality, Personal growth activities, career development, seminar leadership quality and, Contribution to the Department and the Institution. All the HoDs and faculty members are requested to submit the respective assessment forms duly filled and verified with atmost care and sincerity. The self-appraisal score is based on verifiable criteria and will be finalized by the HoD and approved by the Principal. The list of activities is meticulously compiled and broad enough for faculty members to accrue minimum API score required for each category. It is expected that all the faculty members should possess the minimum score in every category as mentioned in the SAF. If a faculty member fails to maintain the minimum prescribed score in any category, appropriate corrective measures on case basis will be imposed. For marginal failures, they will be advised, encouraged and motivated to perform better in the subsequent semester. If the particular faculty member fails to improve his/her performance in the subsequent semester, it reflects the unsuitability of the concerned individual to the teaching position and a list of such candidates will be handed over to the management every year. The PBAS helps the individual faculty to estimate his/her contribution to the students, department and the institution and gives quantitative measures, which helps individuals to focus more on their weaker traits. This is required to improve the academic capabilities of faculty members. Faculty members should not provide any false information. In such cases, as a corrective measure the vacation leave of the respective faculty member will be cancelled for one year. A systematic evaluation program is needed to improve the

quality of faculty members, leading to better quality delivery for students. All faculty members must constantly update and develop to be competitive. The work of the Non-teaching staff is assessed periodically through a structured mechanism. Work efficiency and commitment, Initiative towards learning newer trends in their respective areas, Leadership and team work, Discipline and regularly.

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: 95.71

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

2022-23	2021-22	2020-21	2019-20	2018-19
76	99	106	125	107

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

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

Response: 95.75

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

2022-23	2021-22	2020-21	2019-20	2018-19
89	114	118	140	125

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

2022-23	2021-22	2020-21	2019-20	2018-19
13	15	15	15	18

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

6.4 Financial Management and Resource Mobilization

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

Response:

Institutional strategies for mobilization of funds and the optimal utilization of resources

Strategies for Mobilization of Funds

01-08-2023 06:03:31

The Tamilnadu College of Engineering, Student's admissions are based purely on Tamil Nadu Government Higher Education norms following the norms laid by the Fees Fixation Committee of State Government, fees amount is collected from each student. The fee amount is deposited in the Public sector banks as short term deposits. The fees and the interest earned from the deposits are utilized for the development of the college and towards recurring and non–recurring expenses like salaries, electrical maintenance, advertisement, Travelling Expenses and vehicle fuel, infrastructural maintenance, E-Governance expenses, staff welfare expenses, staff training expenses, sports and Games, Lab consumables etc. Donations received from well-wishers, Alumni and philanthropists are efficiently utilized for the infrastructure development of the college.

Regularly some Grants received from AICTE, DST and other sponsorships from various organizations including Professional Bodies to conduct various short term Training Program, GATE Training Program, Entrepreneurship Program, Seminars, National and International Conferences, and other similar activities are also obtained Grants from the various research and development funding agencies are applied to support the research activities of students and faculty.

Institution conducts financial audits regularly

The Tamilnadu College of Engineering Institution has established a mechanism for conducting external audits on financial transactions every year to ensure financial observance. An external audit is conducted once every year by an external auditor.

The mechanisms used to monitor the effective and efficient use of financial resources are as below:

The college expenditure includes recurring expenses such as salary, electricity, internet charges, maintenance cost, stationery, other consumable charges, etc., and non–recurring expenses like lab equipment purchases, furniture, and other development expenses. The financial resources obtained from the above-mentioned sources are allocated and channelized for their respective activities. The funds are used for the student academic activities such as organizing the symposium, sports, cultural and other activities, and cash prizes for the winners of other college students in the technical events arranged by this Institute. The students are provided the placement training, development programs, value-added courses, awards given by the trust, cash prizes for the rank holders, guest lecture sessions, and industrial visits are provided with this fund.

Process of the external audit:

- The accounts of the Tamilnadu College of Engineering are audited by a chartered accountant (CA) regularly as per the government rules.

- The auditor ensures that all payments are duly authorized after the audit, and the report is sent to the management for review. Any queries in the process of audit would be attended immediately along with the supporting documents within the prescribed time limits.

Optimal Utilization of Resources:

- Tamilnadu College of Engineering, Girls Hostel utilized for COVID'19 Quarantine center
- Research oriented Advanced IC Engine (Computerized Single cylinder VCR Engine) is available in Department of Automobile Engineering, Engines Lab for testing the Alternate Fuels. Other college students utilized this facility to complete their Projects.

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:

Internal Quality Assurance Cell (IQAC) is a accreditation quality sustenance measure. Since quality enhancement is a continuous process, the IQAC will become a part of an institution's system and work towards realizing the goals of quality enhancement and sustenance.

The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of institutions. The IQAC will make a significant and meaningful contribution in the post-accreditation phase of institutions. During the post-accreditation period, the IQAC will channelize the efforts and measures of an institution towards academic excellence.

The broadly defined objectives of IQAC include:

- To develop a system for conscious, consistent, and catalytic action to improve the academic and administrative performance of the institution.
- To create a good quality culture
- To channelize the efforts and measures of the institution towards academic excellence

Basic guide lines of IQAC in an organization:

- Responsible for promoting public confidence that the quality of teaching learning & academic standards enhanced and safeguarded.
- Responsible for the review of academic activities and suggest for the further quality improvements.
- To set benchmarks and best practices every year to enhance Quality standards in the area of education, research and services.

In order to ensure quality sustenance and enhancement, IQAC shall evolve mechanisms and procedures for:

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
- The relevance and quality of academic and research programs.
- Equitable access to and affordability of academic programs to suit to various sections of the society.
- Optimization and integration of modern methods of teaching and learning.
- The credibility of evaluation procedures.
- Ensuring the adequacy and functioning of the support structure and services.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.5.2 Quality assurance initiatives of the institution include:

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

Response: B. Any 3 of the above

File Description	Document
NIRF report, AAA report and details on follow up actions	[View Document](#)
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	[View Document](#)
Link to Minute of IQAC meetings, hosted on HEI website	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years. *Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words*

Response:

The institution has initiated several measures for gender equity and sensitization in curricular and co-curricular activities and also provides various facilities for women on campus. The institute has ensured that the gender related electives are in the curriculum by including the elective subjects like human and gender rights, disaster management and organizational behaviour towards gender equity in the curriculum and teach the young minds with the importance of the gender equity in all aspects within the college.

During the past five years the institute gradually improvised the promotion from manually creating awareness to digitally creating awareness among the students about the necessity of equity in gender in every possible circumstance. Excluding the digitalized programs, the institution has also taken a far sight about this gender equity to provide the students with same set of knowledge and this has helped the students to get motivated and acquire more knowledge by their own self-interest. Apart from curricular, the institution has initialised number of co-curricular activities for both students and faculties for social wellbeing. Every year the institute has been headed on with the gender equity programs and this year women's day celebration is about the gender equity and the institute has conducted awareness about why equity is as important as equality.

The Women's Common Room, a private location for female students and professors to take a personal space after a hard day of class, has been mandated by the institute which ensures the amenities for women on campus. The institution has taken a number of actions to promote gender equity and increase awareness in co curricular and curricular activities. It has also provided a number of facilities for women on campus. The usage of the common room is to take rest and relax themselves from their routine activities. It also serves as a recreational space for the female students, as there is access to women's for their health and hygiene. And the women's grievances cell has been setup for Women's to protect and safeguard the female students and faculty from sexual harassment in any form. The cell is formed to resolve the women & grievances regarding gender discrimination and sexual harassment complaints of the students. The women's can share their issues with the cell authorities and get relieved form those problems with the help of them. Women's are provided with the sanitary pads and facilities are provided to dispose them hygienically. It is also ensured that the installation of these sanitary disposers in every block.With the increased discussion of women & safety, sexual harassment, and sexual assault against women, safety worries have recently gained traction. The college campus places a high focus on the safety of women by placing enough CCTV cameras in different locations. Maintaining a secure and encouraging campus environment is both a responsibility and a problem for the management, which is overcome by the camera setups in the institution.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

7.1.2 The Institution has facilities and initiatives for

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

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	[View Document](#)
Geo-tagged photographs/videos of the facilities.	[View Document](#)
Circulars and report of activities for the implementation of the initiatives document	[View Document](#)
Bills for the purchase of equipment's for the facilities created under this metric	[View Document](#)

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

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

Response: A. All of the above

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

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Over the past two decades, sustainable development and sustainability have played an increasingly important role in engineering education, but more needs to be done. The relationship between infrastructure, inequality and resilience is in many ways a matter of integration.

More integrated approaches to infrastructure and resiliencethat respects social aspects can be accelerated by actively supporting the integration of sustainability into tertiary-level education. It is widely expected that engineering graduates should have an ability to analyze social and environmental aspects of engineering activities. Such abilityincludes an understanding of the interactions that engineering has with the economic, social, health,safety, legal, and cultural aspects of society, and the uncertainties in the prediction of such interaction.

Demonstrate a critical awareness of the impact of sustainability and engineering on the social, industrial and physical environment.Understand and assess the sustainability and impact of professional engineering work in solving complex engineering problems in social and ecological contexts.

Use existing technical resources to support and encourage sharing of resources on teaching andlearning about sustainable development and for the development of both the faculty and the student community.

Students are encouraged to participate in various co-curricular and extra curricular activities to make them mingle with one another and share their opinions and disagreements in a harmonious manner.

The institute promotes cultural fests which promote harmony in communal diversities. It also organises plays, skits, competitions and invited lectures, educates the students and makes them aware of their social responsibilities and understand the implications of their actions.

Onam is celebrated according to the lunisolar Malayalam calendar, which falls on the Thiruvonamnakshatra in the month of Chingam, which corresponds to August-September in the Gregorian calendar. In our institution,"Onam" is celebrated to create importance of this traditional festival to studentsand faculty members fromvarious states of our country.

Traditional Day was celebrated to promote "Unity in Diversity" which is based on the concept where the individual or social differences in physical sttributes,skincolour,castes ,creed cultural and religious practices, etc.are not looked upon as a conflict.

Muthamizhvizha is celebrated since languages are the most powerful instruments for preserving and developing our tangible and intangible heritage. Conduction of such events helps in

promoting regional, linguistic, communal socioeconomic and other diversities.

Various seminars are organized to educates the students and makes them aware of their social responsibilities and understand the implications of their actions.Every year our students give multiple visit to the orphange to need the physical, mental, emotional and spiritual needs of orphaned and destitute children by providing then with love, care and the highest level of education. So that they grow up to be respected members of society with a promising future and an unforgettable past.

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 - 1

Best practices are agents of positive change for the institution as well as society. On the whole, best practice enhances the quality of the Institution, trains the students to understand with experimental learning and a practical approach, enhances the skills of students to be able to apply their knowledge to face and

resolve real-time challenges, discovers the hidden talent of students by knocking them against various tasks, and expedites the decision-making ability of students across various sectors with the required standards. In our institution, we follow best practices that include Awards and Scholarships to recognize and celebrate our outstanding students. These awards, honours and recognitions reflect the college's strong and enduring commitment to excellence in undergraduate, graduate, and professional education, advising, and scholarship. It also helps meritorious students belonging to economically weaker sections of minority communities to increase their attainment rate in higher education, enhance their employability, and offer them better opportunities for higher education, as education is the most valuable and costly thing in today's society.

A scholarship is financial aid given to a student on a specific basis, usually academic merit. Scholarships are a wonderful way to assist students in getting through their education. They are given to relieve students and their families of a significant portion of the enormous financial commitments associated with education. The main goal is to assist those who are in need. And the main objective of the award is to raise the performance of the college and its affiliates and elevate them to the ranks of distinguished colleges locally and internationally. The "RANDEEP MEMORIAL BEST OUTGOING STUDENT" award for all UG departments is awarded every year from 2016 onwards. The eligible students for this award will be identified based on their Overall Grade, Inter College Co-curricular Events Participation & Prizes won, Extra Curricular events, Placement, Class Representative/Symposium student Chairman & Secretary, I.V student Coordinator, Library Award won, 100% Attendance, NSS/NCC/Red ribbon/ and Other club member, National Level awards, Student Membership in ISTE/ISOI/IETE and other professional bodies. In remembrance of "Abdul Kalam," an award is given to the most deserving student on a merit basis. A committee formed by the Alumini students will determine the eligible candidates. The awarded student is benefited by receiving the tuition fee for all years, an internship, mentoring, and project guidance, which are sponsored by the alumni of the TCE 1999 batch. The INSTITUTIONAL SCHOLARSHIP is given to merit students and students from poor families who are in need of financial support. Winning the scholarship can be life-changing, particularly for those with financial need. When it comes to paying for college, Scholarships are the best form of financial aid since they offer free money to deserving students that never needs to be repaid. In a year, we provide scholarships to more than 160 students. As a part of our motivation for students in academics, we refund the fee to students who acquire university rank. Our institution provides SPORTS SCHOLARSHIPS to students who are medal winners in national or state-level sports competitions. Every year around 160–270 students benefit from institutional scholarships. And more than 200 students were awarded the best outgoing student award.KAMARAJAR MEMORIAL SCHOLARSHIP is sponsored by the alumni of the TCE (2002–2006) batch in remembrance of Perunthalaivar Kamarajar.This Scholarship is provided from the year 2023 onwards. Our institution encourages participation rather than competition and measures the participant's progress in relation to personal capabilities rather than external standards of achievement. We can also spread the culture of excellence, creativity, excellence, commitment, quality, and mastery through these activities. It also fuels the spirit of competition between students in a healthy way, honours them, and urges them to obtain scientific awards.

Best Practice- 2

Another best practice that our institution does is through THULIR CLUB, wherein we provide disabled persons with the requisite therapy, training, care, and love. So, they can overcome the social limitations placed on them because of their disability and achieve their goals and dreams. In today's global scenario, it is important for the learners of the institution to acquire extra knowledge over and above the regular course of study as prescribed in the curriculum. In the process of enhancement, the students need to acquire

various types of skills and techniques to deal with the challenges of day-to-day life and get ready for the job market. The Thulir Club aims to cater not only to children's mental needs but to provide a complete package by catering to their physical, spiritual, and emotional needs as well. It does all its activities in line with the vision of the orphanage. These visits help to inculcate personality and leadership traits, enhance communication skills, augment social and human relations awareness, imbibe human values and professional ethics, train planning and execution skills, and build and balance the physical, mental, and emotional dimensions. This club was started in 2013. So far, around 100 visits have been made by our institution as a part of this Club activity to various orphanages and ashrams in and around the Coimbatore region. Around 60 students were taken to the orphanages to support the people out there and listen to their needs and requirements on a monthly basis. This activity helps students understand that they have a larger responsibility towards society and its wellbeing than their own studies and career progression. Our institution also provides the basic requirements, like groceries, medicines, etc., to the orphanages in order to improve their quality of life in comparison with other people in society. Through this activity, social awareness was instilled in our students. To sensitise and make students aware of the underprivileged and to inculcate a feeling of sympathy among our students. They are made to be in their small world, and spending time with them and seeing them happy and joyful was only achieved through this club. These are some of the best practices of our institution that show our enhanced quality.

File Description	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:

Title- Tree Plantation in schools and public places

Objectives of the practice:

Green campus is a place where environmental friendly practices and education combine to promote sustainable and eco friendly practices in the schools and public areas.

1. The Objective of tree plantation drive were to enhance the tree cover on the campus and to sensitize the student towards importance of trees.

2. The purpose of tree plantation is to save the endangered environment and to beautify our life.

3. The lives of men and animals and other animals and insects are inconceivable without the existence of trees in the world.

4. Trees absorb carbon dioxide and give us oxygen without which no living being can live. Trees give us

shade, medicine, food, fruits, furniture, fuel.

5. Trees also keep the weather cool and cause rainfall. They also bind soil and thus prevent erosion.

6. With the growing pollution it is important to make environment healthier by planting tree.

7. To spread the message save trees, save lives.

8. To create awareness among the students regarding the importance of ecology and the natural environment.

9. Trees are the foremost source for producing oxygen in the environment, they help to reduce the level of Co_2 . As the whole world is facing the problem of global warming and another environmental related issue so as to recover from such a problem. Planting the trees has become inevitable one of the most important aspects today.

10. The idea behind the tree plantation activity was to prorogate the massage that planting the tree helps to maintain clear eco friendly environment reduces pollution and improves the green ambience.

Context:

Trees are part and parcel of our life. So it is our duty to plant more trees and take care of them in order to maintain balance between man and nature. To make the country economically developed and to save the globe from green house effect, we should plant trees on a large scale.

Vulnerabilities Reduced by these activities.

• Extreme heat. • Poor air quality.

With the increasing pollution and climate amelioration it is important to make environment healthier by planting trees.

The Practice :

The day of tree plantation program.

Tree plantation program was inaugurated by planting a sapling by of honorable principal with well worshiped in the name of god facility, office members, students, NSS volunteers, public peoples actively participated in the program and many trees were planted at varies places with in schools and public areas.

On this occasion everyone pledged to take responsibility to increase the Maximum number of saplings faculty motivated all the students to plant trees explaining the importance of nature from trees.

Students were then assigned as guardians of one plant each where in they will look after these plants as they grow and make sure that the plants are being watered regularly and cared for.

Planting more trees can be a small step towards protecting the environment.

Evidence of Success ;

Major outcomes of Event.

• It maintain bio-diversity. • Trees help in conservation of water. • It helps to understand how to plant trees.

• Global warming could not be solve easily if people are not very well practice in lowering carbon emission.

Participants were highly energetic to make the event a big success. A sprit of teamwork, exchange of ideas and enthusiasm of the participants especially among the students could be seen.

Problems encountered :

1. More funds should be allocated for the purpose.

Resources required :

Survey and excavation program before tree plantation.

Availability of water, fertility of soil and availability of enough sunlight.

Before a day of plantation it was assured that collection of tree plant are already done.

File Description	Document	
Appropriate web in the Institutional website	[View Document](#)	

5. CONCLUSION

Additional Information :

Tamilnadu College of engineering (TCE) has introduced the Conceive, Design, Implement and Operate (CDIO) approach in the engineering education for undergraduate students. The CDIO initiative aims to produce more effective engineers and the next generation of engineers. The primary reason for using CDIO in engineering education is to expose students to work methods used in industry, while the secondary reason is to provide a useful tool for assessing students' skills. The CDIO framework uses integrated learning to develop deep learning of the disciplinary knowledge base and personal, interpersonal, product, process, and system building skills.The CDIO project is an international initiative that aims to develop a new model for engineering education. The CDIO approach stresses engineering fundamentals in the context of conceiving, designing, implementing, and operating real-world systems and products. The CDIO process includes four stages: Conceive, Design, Implement, and Operate.The three main goals of CDIO are to educate students to master a deeper working knowledge of the technical fundamentals, to educate engineers to lead in the creation and operation of new products and systems, and to educate future researchers to understand the importance and strategic value of their work. The CDIO standards address program philosophy, curriculum development, design-build experiences and workspaces, methods of teaching and learning, faculty development, and assessment and evaluation. We are encouraging our students to participate in project-based learning with the outside companies and also, we motivate them to engage themselves in internships. Our college is conducting Alumni tournaments every year between Alumni and the current students to maintain a cordial relationship. We have a good number of transport facilities and ambulance for emergency needs. Water level is monitored in each hostel to check its water consumption. Reverse Osmosis (RO) filter has been placed in every floor at our college building to serve the students. We had conducted Zonal and Inter-college Cricket tournaments and our students participated in outside zonal tournaments and won many prizes. We had indulged in collaborative activity with INNOVALLEY WORKS and we have research centre to aid the carrying-out of funded projects. Our Students have selected for the finale of smart india hackathon in all the editions since its induction.

Concluding Remarks :

Established in 1984, the Tamilnadu College of engineering is located in Tamil Nadu, just 34 km east of the bustling industrial city of Coimbatore. As the first self financing college in engineering, we already got permanent affiliation from Anna university for five engineering courses. our college has now got ready for being accredited by reputed accreditation agencies like NAAC, so that it is able to fulfil the dreams of our students and all stakeholders in all aspects for the forthcoming years. The buildings, hostels, workshops, computer laboratories, playgrounds, and gardens of the college are thoughtfully designed by experienced architects and educationists to provide a functional and aesthetically pleasing environment that is conducive to learning, working, and living. The premises are an ideal place for students to pursue their academic goals and explore their passions. The college has established an environment that fosters growth, with impressive infrastructural facilities, green and serene premises, and a talented, highly qualified, experienced, skilled and motivated faculty, and student body. The college's dedicated and progressive management aims to showcase the institution as one of the best engineering institutions in the country. The college has a track record of excellence demonstrated by continuous placement, sponsorship of research projects, high-grade accreditation, top media rankings, and a strong reputation in the academic community. The Management has a long-term vision for the institution and aims to achieve all-round development and growth. The development of machinery, tools, equipment, and operational systems is the result of the combined efforts of creative minds and skilled hands.

01-08-2023 06:03:31