



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

THAMIRABHARANI ENGINEERING COLLEGE

**WARD-1, THATCHANALLUR, CHATHIRAM PUTHUKULLAM, CHIDHAMBRA
NAGAR ROAD, TIRUNELVELI**

627358

www.tec-edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Thamirabharani Engineering College which is in the Tirunelveli Corporation limits is located at Thatchanallur, 5km away from Palayamkottai and 40 km from Tuticorin airport. Unfolding its grandeur over 25 acres of land, the college exhibits an attractive panorama conducive to studies. Considering a holistic approach to life and education, an ambient infrastructure is provided for the students. They enjoy a natural sanctuary of birds, magnificent scenery of evergreen trees and amazing mountains and a gorgeous garden of multicolored flowers. Thamirabharani Engineering College was founded with the noble vision to raise professionals and leaders of high academic caliber and unblemished character, nurtured with a strong motivation and commitment to serve humanity. TEC aims at educating & training its students to become not only competent professionals but also excellent human beings to influence the quality of life of people around.

Thamirabharani Engineering College was established with the goal of producing outstanding students in Technical and Business fields and preparing them to tackle the challenges of a dynamic and rapidly changing world. The management implements an interdisciplinary approach to the programs of Anna University, making sure that practical applications are combined with the classroom material. All the programs offered by the institute are recognized by and affiliated to statutory bodies like the All India Council of Technical Education (AICTE), New Delhi and Anna University, Chennai. In a nutshell, Thamirabharani Engineering College is a co-educational, residential, technological college imparting holistic education to develop the technical and the character of the students.

Vision

To be a center of excellence in Engineering, exposing emerging technologies and instilling Entrepreneurial Attitude.

Mission

- Empower students through effective teaching and learning process for the development of critical thinking, effective communication and creativity.
- Develop industry readiness by encouraging learning by doing, exposing current innovations and providing adequate facilities for Research.
- Create the entrepreneurship desire by developing individual skills, professional ethics, moral values and societal concern.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. The Institution has a well-organized structure with statutory Bodies, various clubs and committees for execution of the college vision and mission.
2. As the Institution is situated in rural locality, the students from the neighboring areas are getting benefited.
3. Workshops, conferences, seminars, clubs and departmental association activities are interspersed through the year.
4. Well-established states of art laboratories are in place to encourage learning by doing.
5. Constant mentoring and a strong feedback system for improving their core values and timely grievance redressal.
6. Community development activities are conducted by the faculty and students to respond to the societal needs.
7. The academic activities facilitating faculty and students through National collaboration are being initiated to ensure quality.
8. The Institution ensures an inclusive workplace by fostering a community spirit at work.

Institutional Weakness

1. Due to its location away from the city, the Institution is facing challenge in attracting the students and faculty from other cities.
2. The development of the Institution relies on the income from the tuition fee. Due to this the Institution is facing stagnation in ensuring sustainable development in building infrastructure. This weakness has been mitigated by receiving funds from Kalaiarasi Educational Trust.
3. The research and development activities needs are ample. However, initiatives are being made to encourage the faculty to publish in reputed journals and filing of patents.
4. The activities through International collaboration have to be initiated.
5. There is lack of faculty cadre ratio.

Institutional Opportunity

1. The Institution can provide more exposure to the student community through experiential learning by upgrading laboratories and adopting Industry Institute Interaction.
2. Since the Institution is located in rural areas, there is a lack of opportunity for the economically backward students to pursue higher education. The Institution provides ample opportunities for those students by providing free education through Kalaiarasi Educational Trust.
3. The competency of faculty can be improved by encouraging them to pursue Doctoral Degree.
4. The Institution can facilitate ICT enabled class rooms to enhance experiential, participative and problem solving methodologies.
5. The Institution can offer placement training free of cost to the final year students to improve their employability based on their financial status of the students.
6. The Institution can provide avenues for the enthusiastic students through the various clubs to enhance their societal, human and environmental needs.
7. Students can be motivated to do self-learning.
8. The Governance can be improved through decentralization and participative management.
9. The quality of academic and administrative initiatives can be ensured by Accreditation process through

internal quality assurance cell (IQAC).

Institutional Challenge

1. As a self-financing Institution there are challenges in raising funds for the sustainable development through research and development activities. Therefore, initiatives can be taken to attain research center status from the parent University and Autonomous status from University Grant Commission.
2. Due to the current stagnation in the job market, the steps have been taken to improve placement and initiate Entrepreneurship Development and Incubation Center. However, the mobilization of funds is a major constraint.
3. Lack of alumni network is an obstacle in enhancing the networking and branding.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college has a clear vision for learning, research and extension and to be an instrument of change for peace, progress and prosperity for all. We are following the curriculum in line with syllabus prescribed by Anna University, Chennai. The Choice Based Credit System, implemented in the Regulation 2017, provides for flexibility by offering intra-departmental and interdepartmental optional courses. Academic flexibility has been incorporated through co-curricular in our teaching plan in order to bridge the gap between industry needs and the syllabus. Curriculum delivery is planned in advance to accomplish Vision & Mission of Institute. This process is carried out at the beginning of every academic year. Keeping in view academic planning, faculty members plan and execute their curricular, co-curricular and extracurricular activities through Academic calendar. The delivery of curriculum and implementation of various activities are regularly monitored by Academic Monitoring Committee. The quality of curriculum delivery and attainment of course objectives is ensured through internal assessment, seminar, practical assignments, student attendance etc. Through various Clubs and Cells, college provides knowledge about society, humanity, gender equity, resource scarcity and environmental issues. The college provides opportunities for better exposure to the students by conducting field trips, technical training programs for students. Institute provides add on courses related to recent technology trends to ensure all round development of students and their placement. Institute regularly update academic plan based on the feedback from Students, Faculty members, Alumni and Employers. The feedbacks are analysed and necessary actions are taken. Based on the outcomes of feedback, suggestions to be given to initiate improvement steps.

Teaching-learning and Evaluation

The Institution craves to be the centre of Excellence in Engineering. Learning by doing is considered as one of the best means of instilling intellectual process among the rural and first-generation learners. The college follows a transparent admission policy in terms of seat matrix, fee-structure and merit list. The College provides freedom and facilities to the faculty to develop student-specific, contextual and innovative teaching methodologies using ICT that can maximize the learning outcome. Seminars, problem-solving sessions, power point presentations, assignments, group discussions, quizzes and mini projects are some of the methodologies and exercises that we used to enhance their learning. Advanced learners are motivated to strive for attaining higher goals. They are provided with additional inputs for better career planning and growth through special

coaching for higher level competitive examinations. Slow learners are specially advised and counselled by a teacher guardian and the subject expert. Coaching classes are conducted for the slow learners based on the performances in varioustest results.The college encourages the staff to undertake research activity and to attend more developmental programs by providing flexible time-table. Students are evaluated in a continuous assessment system, comprising written examinations, class seminars, and assignments. The college maintains complete transparency in the evaluation and provides a platform for redressal of grievances of students regarding University examination and internal evaluation respectively. The College has an efficient and proper system for achieving POs and COs. The achievement is ensured through proper curriculum delivery, which is supplemented by other activities for the students' overall development.

Research, Innovations and Extension

The institution encourages the faculty members to do research. The college conducts seminars on Intellectual Property Rights. The college has an active Entrepreneurship Development Cell which conducts programs regularly. The Entrepreneurship Development Cell is committed to nurture and develop entrepreneurial skills in experiential manner among the students community. All the departments conduct seminars, conferences and workshops to make the faculty and students to be well versed in all subjects. The faculties in the college have published their research papers in reputed national and international journals with good impact factors. They have published papers in national and international conferences. The institution involve in extension activities to impart social values and responsibilities to the faculty members and students by conducting extension activities in the neighbourhood community for the development of the society. The NSS unit do community services by conducting cleaning activities, traffic awareness programs and tree plantation programs in nearby villages in collaboration with industries. The YRC unit do community services by conducting health awareness programs, leprosy awareness programs, tobacco awareness programs, AIDS awareness programs, dengue awareness programs and plastic awareness programs in nearby villages in collaboration with industries. The unit has received many numbers of awards and recognitions for extension activities from government. The institution has several collaborations and MoUs for skill development and internship which provide industry to institution linkage. All the students do internships in industries under MoU. The industries conduct certificate courses and seminars for all the students. These courses help the students to develop their skills.

Infrastructure and Learning Resources

The college has a clean and beautiful campus spread over 24.28 acres with a total build up area 26918.42 Sq. m. The infrastructure comprises of administrative Building and staff rooms, well-furnished ICT enabled classrooms, Auditorium, Seminar Halls, common rooms, toilets, yoga centre, stores, separate boys and girls hostels, canteen and sick room with all necessary facilities are available. Well established roads connect all buildings for ease maneuvering. Two drawing halls indigenously developed for drawing practices and respective seminar halls are provided to every department.The college library equipped with hefty amount of text books of national and international authors, reference books & research journals for enriching the young minds of our college. The library is equipped with ample reading and referral areas. Our college holds membership with NDL, NSDL, NPTEL, etc., by which pre-recorded video lectures and e-books and journals are made available for our students with reprographic/scanning/printing facilities. Sports facilities of outdoor include Cricket, Football, Volleyball grounds, Tennikoit court, Kabaddi, Ball Badminton, Athletic courts and indoor courts for Badminton, chess, carom, etc are available in our college. The college promotes socialization in organizing cultural activities in auditoriums and college open area. The college provides accessible transport facilities with buses plying to and fro connecting areas in and around Tirunelveli. Effective Net resource center

and internet facilities is available for students and faculty by Providing 24x7 Wi-Fi enabled campus. From the feedback of stake holders adequate budget for upgrading, maintaining and utilizing physical, academic and support facilities is ensured.

Student Support and Progression

Thamirabharani Engineering College has always support for Students Progression. Student mentoring and support has been a primary focus of the college. The students are mentored from the time of admission up to the completion of their programme at various levels and the students are taken care of by providing various facilities in the form of indoor and outdoor sports facilities, encouragement for participation in co-curricular activities, besides supporting deserving students with financial assistance from the college and assisting them to benefit from the State Govt. and Central Govt. sponsored scholarship schemes. Every class has a teacher assigned to counsel and mentor the students. Hostellers have access to their hostel officials at any time of the day and night. All departments have associations under the auspices of which students can interact with eminent academicians and scientists. Students can make use of both the Central and departmental libraries for reference work, and computer and internet services for browsing. The Placement Cell arranges for campus recruitment. The college has well established career counselling, entrepreneurship development and placement cells, for guiding students towards a better career and providing job opportunities through campus interviews with the support of prospective employers visiting this institution for placement of students in service, retail and other employment sectors. Other support services include redressal of Students Grievances through complaint boxes, Student Grievance redressal committee members, website link etc., Girl students can address their grievances to the Internal Complaint Cell. Our institution has several dynamic clubs run by students coordinated by faculty members. Each club is presided student coordinator and willing members. They organize regular club activities. By inculcating the practice of student steered club activities, the student community of our institution are gaining practical problem solving skills and leadership qualities. The Physical Education department with impressive courts and tracks provides a venue for sports and games. Alumni are the voice of the college and every college wishes its students to settle in a colourful way in their lives. The institute has a registered alumni association for building strong bond between alumni and present students. The alumni give support to the students through interaction, financial funding, guidance and placement.

Governance, Leadership and Management

Institute's management believes strongly in decentralization of authority and participative management inclusive of teaching, non-teaching staff members and students. Strategic planning is a continuous process with a specific focus on accomplishing Institutional goals. The organogram is an administrative diagram of the College describing the decentralized structure of administration. E-Governance in our institution is to bring an e- governance system that is necessary to successfully handle all of the challenges of running an educational institution. Faculty development programs in various areas and subjects are regularly conducted in the college. The scheme of financial support to teaching staff for attending and organizing academic programs is designed to enhance the teaching and other skills of the faculty. The performance of each faculty member is assessed. Faculty summarizes their performance in that format and this is received by the head followed by the principal. The Institution has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. The institution always monitors the effective and efficient use of available financial resources for the infrastructure development to support the teaching learning process. Internal Quality Assessment Cell is established in our college with an objective to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution at all levels with

the involvement of all stakeholders towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Institutional Values and Best Practices

The Institution provides an equitable and inclusive work environment to all stake holders to have equal opportunities to contribute, benefit and reach their potential. Gender sensitization programmes are regularly arranged for creating awareness about educating a girl child, and women development, through women development cell. Women and girls are treated with dignity and respect. Rain water harvesting system has been installed at various points in our College and hostels. The Institute undertakes massive tree plantation efforts to neutralize carbon in and around the college. The college conducts green audit and awareness about environmental issues, climate change and conducts programmes to encourage utilization of renewable energy sources. Several best practices are in existence in the college which has been benefitting both teachers and students. Institute organizes various programmes such as Independence Day and Republic Day to promote patriotism among the students and National Voters Day to make the students realize their duty and rights as citizens. Our college successfully implemented Activity based learning as one of best practices to observe the students interaction and voluntary participation. It provides rich and varied experiences to the students, thereby building their knowledge, boosting creativity skills and increasing cognitive skills. In addition, the self-confidence and leadership of students is boosted through their active participation and organization of various club activities. The Institutional distinctiveness of the Institution is to choose, educate, train and equip the students to meet the industrial needs. To fulfil the dream of the young aspirants of this economically backward community, the Institution is providing financial support through various scholarship schemes.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	THAMIRABHARANI ENGINEERING COLLEGE
Address	WARD-1, THATCHANALLUR, CHATHIRAM PUTHUKULLAM, CHIDHAMBRA NAGAR ROAD, TIRUNELVELI
City	Tirunelveli
State	Tamil Nadu
Pin	627358
Website	www.tec-edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	D Ravindran	0462-2301266	9360904669	0462-2301366	principal@tec-edu.in
IQAC / CIQA coordinator	A Anna Lakshmi	-	9944239002	-	annalakshmia@tec-edu.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 minority institution	No

Establishment Details	
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Date of establishment of the college	19-05-2011			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
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	10-07-2021	12	Approved

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

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	WARD-1, THATCHANALLUR, CHATHIRAM PUTHUKULLAM, CHIDHAMBRA NAGAR ROAD, TIRUNELVELI	Rural	24.28	98258

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	Higher Secondary	English	60	23
UG	BE,Mechanical Engineering	48	Higher Secondary	English	60	20
UG	BE,Electrical And Electronics Engineering	48	Higher Secondary	English	60	41
UG	BE,Electronics And Communication Engineering	48	Higher Secondary	English	60	60
UG	BE,Computer Science And Engineering	48	Higher Secondary	English	60	60

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	6				12				42			
Recruited	2	1	0	3	1	2	0	3	14	28	0	42
Yet to Recruit	3				9				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				15			
Recruited	0	0	0	0	0	0	0	0	15	0	0	15
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				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				12
Recruited	9	2	0	11
Yet to Recruit				1
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	1	0	1	2	0	0	0	0	6
M.Phil.	0	0	0	0	0	0	2	10	0	12
PG	0	0	0	0	0	0	28	17	0	45

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

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	275	0	0	0	275
	Female	328	0	0	0	328
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	55	66	100	147
	Female	109	140	179	192
	Others	0	0	0	0
ST	Male	1	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	158	130	117	156
	Female	226	171	133	134
	Others	0	0	0	0
General	Male	13	4	7	7
	Female	9	4	6	3
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		571	515	542	639

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Our institution has done a tremendous job in creating an enabling ecosystem for offering multidisciplinary and interdisciplinary education to flourish and making a difference to the students. The flexibility to
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	<p>choose subjects from engineering to science and humanities with the ability to also learn management</p> <p>Will give students a wide range of subjects to choose without the restriction they faced earlier. With creative combination of subjects, cutting edge curriculum, flexible options in order to foster intellectual curiosity, a critical thought process, self reflection leadership and teamwork skills, professionalism to socio cultural environment</p>
2. Academic bank of credits (ABC):	<p>Thamirabharani Engineering College has arranged awareness program for all the students about academic banking credit system. Our institution has taken steps to make all students to create their own account in abc which will facilitate students to choose their own learning path to attain a degree/diploma/certificate, working on the principal of multiple entry - multiple exit as well as any time, any where, and any level of learning. We have register our institution on ABC in website www.abc.gov.in. we have created a hyperlink of abc url in our college website. We have appointed a nodal officers for implementation of abc</p>
3. Skill development:	<p>1) the college encouraging faculty and non-teaching technicians to participate in enhances skill development through fdp / refresher course / workshop. 2) workshop and hands on training for skill development of on preparing for on line classes in Google class room 3) students were given training in latest technology through value added courses 4) basic and advanced ict workshops have been organised to increase work outcomes 5) personality development program has been introduced to the students 6) internship is made compulsory for all the students 7) special training programs organised for competitive exam and entrance test were given</p>
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>“Knowledge of India” will include knowledge from ancient India and modern India, and a clear sense of India’s future aspirations with regard to education, health, environment, etc. In order to stimulate Indian Knowledge System, Arts and Culture, compulsory activities has been introduced through clubs like Tamizh Mantram, Fine arts club, Fit India Club, NSS etc. and through Group Discussions/Interactions in local language which will fetch extra credit to our students. Field trips are also introduced recently by us to local heritage sites/museum which will boost and</p>

	<p>value our culture and traditions among students. As a part of having a healthy environment TEC intended to provide a clear sense of our environment by conducting various awareness programmes inside and outside the campus and by having webinars and seminars.</p>
5. Focus on Outcome based education (OBE):	<p>TEC, being affiliated with concerned University follows the guidelines as and when directed. We implemented OBE with clearly stated Programme Outcomes, Programme Specific Outcomes and Course Outcomes on our website and prominent places in the departments. All courses are designed with outcomes centered on cognitive abilities namely Remembering, Understanding, Applying, Analyzing, Evaluating and Creating. Students are assessed as per OBE attainment model.</p>
6. Distance education/online education:	<p>TEC has willingness and possibilities of offering vocational courses through Distance Education. This may cross the geographical barriers creating interaction and knowledge sharing of experts from Institutions all over the globe. Keeping aside the lack of face to face learning during the pandemic (COVID-19), TEC has successfully imparted all its course content delivery in online mode and also our students completed their online exams. Moreover access to online resources by instructors and students will not be a constraint anymore. We use various online platforms like Google Classrooms, WhatsApp etc. the whole campus is Wi-Fi enabled and hence we have no hindrance in online Education.</p>

Extended Profile

1 Program

1.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
245	255	248	239	239
File Description		Document		
Institutional data in prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	5	5

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
571	515	542	639	687
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
207	207	207	207	207

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2020-21	2019-20	2018-19	2017-18	2016-17
98	151	161	153	162

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
64	72	62	67	70

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
64	72	62	67	70

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 25

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
150.66	192.56	268.30	276.62	272.47

4.3

Number of Computers

Response: 203

4.4

Total number of computers in the campus for academic purpose

Response: 179

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Our college is affiliated to Anna University, and follows the curriculum designed by the Anna university. Our Institution imparts Outcome Based Education (OBE) to provide a Student centric instruction model that focuses on measuring student performance through outcomes to accomplish the Vision and Mission of our Institute. Outcomes include creativity, innovativity, entrepreneurship, critical thinking, effective communication, professional ethics and moral values which are the core value of our students. Thamirabharani Engineering College strives for effective curriculum delivery by Reformed Teaching and Learning (RTL) through ICT enabled classrooms. The Course Outcome for all courses are mapped with Program Outputs and necessary steps are taken to fill the gaps. To attain all the POs / PSOs, the Institution makes additional efforts to impart such knowledge by covering the aspects through Content Beyond Syllabus (CBS), Value Added Courses (VAC), Workshops, Guest Lectures and Seminars delivered by eminent resource persons. Also, more attention is paid to experiential learning like Industrial visits, In-plant training, Internship and Project work to supplement classroom teaching. Based on the recommendation given by the DAC members, All the above activities are planned and forwarded to Internal Quality Assurance Cell (IQAC) and Governing Council (GC) respectively. Students' feedback about the Teaching and Learning process is collected periodically. The feedback is discussed in the department faculty meeting and Feedback Review committee for improving effective curriculum delivery. The Internal Assessment and End semester exam performance are analyzed. CO, PO and PSO are evaluated and continuous improvement of Teaching and Learning is implemented. The faculty Members of TEC undergoes various workshops, Faculty Development Programs and Guest lecturers of eminent faculty members from other institutions are arranged to give exposure of the current trends and the latest subject knowledge. The prepared course plans are verified by the Departmental Heads. The verification of academic calendar, course delivery, feedback and all other documents related to academics is also done by internal and external audit committee members recommended by the IQAC at the end of each semester for ensuring the quality of curriculum delivery. Three class committee meetings are conducted in a semester with an equal ratio of boys and girls students nominated by the class advisor and will be finalized by the Head of the department for every academic year. This meeting helps us to identify the issues and be able to sort it out then and there. A series of feedback from all stakeholders on curriculum and feedback on mid-semester & end semester by students on content delivery, course exit surveys are collected for enriching the curriculum and content delivery.

File Description	Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE**Response:**

Our college academic calendar is prepared based on the academic schedule provided by Anna University and the directives provided by IQAC. The academic calendar is prepared prior to the start of semester for effective planning, preparation and implementation of curriculum plan. The academic calendar consists of the academic & co-curricular activities and a separate event calendar is maintained for extra-curricular activities.

As per the scheduled academic calendar, time table & department activities are framed. The academic calendar is circulated and displayed on every classroom and in our college website. By having this, the students are planning their academic activities in an effective manner.

Meanwhile, three internal assessment tests are conducted as per the academic calendar for the computation of internal marks. No deviation is allowed for the alteration on conducting internal assessment tests, unless approved by the head of the Institution. Cumulative calculations of all the three internal assessments, innovative assignments & projects are considered for attaining the course outcomes. This helps us in monitoring and assessing the continual improvement of students in a better way.

For every course, respective faculty prepares question bank that contains equal number of questions from each unit, covering all the topics. The question bank is distributed to the students at the start of the course.

Slow achievers are identified and additional care is given for his/her betterment. Holistic approach towards slow learners is maintained through constructive mentoring.

The quality of the internal assessment exams is maintained through the following process:

- Questions are framed, such that they adhere to the level of University standard
- The mapping with course outcomes and comprehensive level in blooms taxonomy is mentioned in every question
- With the proper knowledge and guidance of departmental heads the internal assessment question paper is set by the respective course instructor
- College Internal exam Coordinator along with an Exam team selects the final internal question paper out of two for each subject submitted by the course instructor
- Question papers are dispatched to the departments on the date of exam by the exam cell coordinator, after getting approval from the Principal
- Course instructor prepares the answer key / Scheme of evaluation for the published question paper

- **Internal exam coordinators ensure the smooth conduction of test and proper valuation of answer scripts**
- **After the completion of every internal exams, grievances faced by our students are received in written form (grievance form) and solved at the earliest. The final copy of the mark list will be displayed in the notice board**
- **Overall quality, level of order of thinking, level of difficulty faced by the students are audited by internal and external audit committees and proposed the same to the IQAC for further actions.**

File Description	Document
Link for Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

- 1. Academic council/BoS of Affiliating university**
- 2. Setting of question papers for UG/PG programs**
- 3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**
- 4. Assessment /evaluation process of the affiliating University**

Response: B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 Number of Programmes in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 62

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
10	15	14	13	10

File Description	Document
Institutional data in prescribed format	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document

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

Response: 83.41

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

2020-21	2019-20	2018-19	2017-18	2016-17
461	513	484	513	461

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

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human

Values ,Environment and Sustainability into the Curriculum

Response:

Integrating the cross-cutting issues relevant to gender, environment and sustainability, human values and professional ethics, our students are exposed with different types of courses in the curriculum, professional competencies thereby leading to the holistic development of our students in their curriculum.

Gender

Both the genders of our college are given equal preference in every aspect like such as admissions, Curricular, Co- curricular, Extra-curricular, Training & Placement activities and even recruitments. Irrespective of gender roles and responsibilities are assigned to our students. This makes the students exhibit mutual respect with the opposite gender.

Various awareness programmes and seminars on gender sensitization are introduced for our students which enable our students to interface with real life situations.

Professional Ethics and Human Values

To ensure sustained happiness and prosperity which are the core aspirants of human beings, our college introduces the below mentioned courses that help the students to appreciate the essential compliments between values and skills. The curriculum includes Ethics related courses to our students enabling them to learn global issues, moral leadership, code of conduct, loyalty and to appreciate the rights of others.

Environment and Sustainability

Students are emphasized to lean several courses on Environmental Science to address the environment and sustainability issues. On focusing energy efficiency by preserving natural resources for healthy living and a good learning environment Thamirabharani engineering college encourages the student community to do the same. Rainwater harvesting system is implemented to recharge the groundwater by collecting the rainwater from catchment areas like building's rooftops. The RO Plant is established on the college campus to provide safe drinking water.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 3.91**1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
11	10	9	9	9

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Institutional data in prescribed format	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year**Response:** 57.97**1.3.3.1 Number of students undertaking project work/field work / internships**

Response: 331

File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni****Response:** A. All of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

- 1. Feedback collected, analysed and action taken and feedback available on website**
- 2. Feedback collected, analysed and action has been taken**
- 3. Feedback collected and analysed**
- 4. Feedback collected**
- 5. Feedback not collected**

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

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 52.27

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
195	165	91	133	200

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
300	300	300	300	300

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 74.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
191	160	89	131	197

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

The institution organizes Orientation programmes/Induction programmes for freshers in the start of every academic year both at the college level as well as the department level. Bridge Courses are conducted at the department level to lift the students to the standard of higher education. The Department of Computer Science of our college selected and focused two specific areas in conducting the Bridge Course - Basics of Computers and Advances in Computer Science. The English Department of TEC organizes Orientation / Bridge Course in Basic English Grammar to enable Tamil medium students to cope with the course. The Department of Mathematics organizes Bridge Course to all the first year students are admitted to cope up with the knowledge requirement of the course opted by the student. Coaching classes are conducted for Advanced Learners to face competitive exams. Students are encouraged to enroll in NPTEL Courses – Swayam. Coaching is also given in Skill Development Programme like Communicative English, Aptitude and Placement. Students are encouraged to have an internship with their relevant discipline of studies to learn and analyse the current needs of industrial aspects. Based on the industrial needs the following core courses and inter-disciplinary courses are conducted to encourage our students to learn as advanced learner programme in every semester after the working hours.

Strategies adopted for slow learners: The institution assesses the learning levels of the students in means of two things- students enrolled in various disciplines are identified as slow and advanced learners based on their performance in Internal Assessment Test and University Examination. All the departments draw up the schedule for organising remedial classes for slow learners. This exercise is done in a discreet manner and slow learners are encouraged and stimulated to recognize their shortcomings and register on their own without compulsion. Teachers are able to give one to one attention in remedial classes and focus on individual problems in a better manner when compared to a regular classroom. Group Study System is also encouraged with the help of the advanced learners. Academic and personal counselling is given to the slow learners by mentor. Provision of simple and standard lecture notes/course materials will enable them to perform even better in their academic performance.

File Description	Document
Upload any additional information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 9:1

File Description	Document
Any additional information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

The College provides freedom and facilities to the faculty to develop student-specific, contextual and innovative teaching methodologies using ICT that can maximize the learning outcome. Seminars, problem-solving sessions, power point presentations, net based assignments, group discussions, group assignments, quizzes and mini projects are some of methodologies and exercises used to enhance their learning.

Experiential Learning:

Learning by doing is considered one of the best means of arousing intellectual process among the rural, first-generation learners. From 2016 onwards, **internship** is introduced for all UG programmes. All UG programme students are learning by doing practical in their respective Labs for theory and laboratory concepts. Experiential learning is the process of learning through experience by doing and reflecting. We encourage students to practice various technical and non-technical skills through project development, student seminars, student development programs, workshops, internships, industrial visits and Science day celebration. These activities are planned, conducted and monitored regularly by the faculty to ensure that students are practicing the required skills, reflecting on their experiences and improving their skills.

Participative learning:

In this type of learning, students participate in various activities such as seminar, group discussion, wall papers, projects, and the skill based add on courses. Students are encouraged to participate in activities where they can use their specialized technical or management skills, such as

- Regular Quizzes- Quizzes are organized for student participation at intra or inter college level.
- Seminar Presentation – Students develop technical skills while presenting papers in seminars.

We always strive to enhance the learning experience of learners in class through various interactive and participatory approaches apart from traditional teaching. These approaches aid in creating a feeling of responsibility in learners and makes learning a process of construction of knowledge. In this type of learning, students participate in various activities such as seminar, group discussion, poster presentations, projects, and the skill based add on courses. Students are encouraged to participate in these activities where they can use their specialized technical or management skills. Students actively participate in a myriad of academic activities like class room seminars on chosen/ assigned topics, home assignments, power point presentations, model preparation. Our institute consists of various club activities like NSS club, Start up and innovation cell Energy club, Fit India club, English Proficiency club, Robotics Club, Renewable Energy Club, Science club to exhibit their team work in communicating the needs and responsibilities to society in an ethical means

Problem-solving methods: Departments encourage students to acquire and develop problem-solving skills. For this, college organizes expert lectures on various topics, motivate students to join certificate courses, participate in various inter-college and intra-college technical fests and other competitions such as:

- Regular Assignments based on problems
- Mini Project development
- Regular Quizzes
- Case studies Discussion
- Class presentations
- Debates
- Participation in Inter college events
- Faculty handling Tutorial classes
- Students handling Tutorial classes
- Aptitude Training and Internship Program

File Description	Document
Upload any additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

In TEC, the classrooms and labs are ICT enabled with projectors installed and the campus is enabled with high speed Wi-Fi connection. The faculty at TEC use various ICT enabled tools to enhance the quality of teaching-learning like-

1. Google classroom is used to manage and post course related information- learning material, quizzes, lab submissions and evaluations, assignments, etc.
2. Virtual labs are used to conduct labs through simulations.
3. Online drawing tools like concept maps, mind maps, are used to perform student centric activities.
4. The PPTs are enabled with animations and simulations to improve the effectiveness of the teaching- learning process.
5. The online learning environments are designed to train students in open problem-solving activity.
6. Google Meet is used to host a video session/lecture. Teachers can invite upto 100 participants and record the sessions for later access.
7. Lab manuals are mailed to students well in advance the experiment is performed.
8. Online quizzes is regularly conducted to record the feedback of the students.
9. To teach mathematical subjects in online mode, teachers have used various online tools like- whiteboard in Microsoft teams, Wacom board in Google meet, etc.
10. Wacom board is used to make it easy to explain concepts visually, encourage collaboration, and support flipped and distance learning programs.
11. The faculty members used Google meet or Zoom to conduct tests and for lecture delivery. Also used many interactive methods for effective teaching such as PPT with animations, Video clippings.
12. Other important activities such as Project presentation, Debates, Group discussions, Mentoring,

PTA meet, AAC meet also conducted online through Google meet or Zoom platforms for quality teaching learning process.

13. The research journals and e-books are available on online library to our faculty and students.

14. All the departments are conducting webinars, workshops and guest lectures on the new developments in the core subjects for effective teaching and learning by Industry experts and Alumni on Zoom platforms and also broadcasted the same on You tube.

15. Our College You tube channel is used for the students as a platform for learning.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process.	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 9:1

2.3.3.1 Number of mentors

Response: 64

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
Mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
List of the faculty members authenticated by the Head of HEI	View Document
Institutional data in prescribed format	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)**Response:** 6.26**2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	3	3	3

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)**Response:** 3.4**2.4.3.1 Total experience of full-time teachers**

Response: 217.9

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms**2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode****Response:**

The college has a transparent and robust evaluation process in terms of frequency and mode. In order to ensure transparency in internal assessment, the system of internal assessment is communicated with the students one week before.

Assignments will be given by all teachers. The internal Assessment examinations are also conducted for practical courses.

As per the COE (Controller of examination, Anna University) notifications, Academic activity plan and Internal Assessment Examination Schedule is prepared. Based on the Academic Calendar, the Internal Assessment Test (IAT) will be conducted at regular intervals of time. The timetable for the Assessment test will be prepared by the Department Exam cell and displayed in the Department Notice Board and also circulated to students.

Changes in schedules, patterns, methods if any, are immediately notified to the students through notice boards and also through classroom briefing by the concerned subject teachers.

The college conducts three IATs. Each IAT will be conducted for 50 marks with a duration of 90 minutes.

The evaluated answer sheets will be issued to the students in the classroom. The answer and key for valuation will be given in the Google classroom or Classroom. If there is any deviation in total mark and valuation, the student can apply for the retotalling and revaluation with the specified form for it. The mark list for Internal Assessment will be prepared and displayed in the notice board. The Assessment marks of the students are updated in the Web portal of the University. Internal Assessment marks are sent to their parents.

Students are free to interact with the teacher to resolve grievances if any, regarding the assessment.

After every internal examination, the HOD will conduct meetings with the staff and discuss how to improve the performance of the students.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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

Response:

The college maintains complete transparency in the evaluation and to provide a platform for redressal of grievances of students regarding University examination and internal evaluation respectively. To address all examination and evaluation related problems, the Institute has appointed a College Examination Coordinator.

1. Mechanism for Redressal of Grievance regarding Internal Examination by the College:

a. Before Examination:

- The college follows strictly the guidelines and rules issued by the affiliating university while conducting internals and semester-end examinations.

- **Three internal assessment tests are conducted during each semester,**
- **Time table for which is prepared well in advance as per the University schedule and academic calendar and communicated to the students earlier.**
- **Seating plan and table marking is followed even for internal assessment tests and it is displayed on the notice board along with the Internal assessment time table. By adopting the criteria as per the direction of affiliating university, complete transparency is maintained in internal assessment tests.**
- **Students and faculty members are made aware of the transparency to be maintained in the system of assessment. This further enhances the transparency and rapport between faculty members and students.**
- **After preparing the assessments report it is shown to the students, if any grievances is there it can be resolved immediately and submitted by the concerned faculty to the department. A centralized exam cell system is followed.**

b. During Examination:

- **If any student finds discrepancy in question, e.g. given answer options are not correct, data given in question is insufficient or options are repeated, out-of-syllabus questions students may report it through prescribed format.**
- **The Head of the Department instant reports to the College Examination Section, if there are any grievances regarding question papers of any subject.**

c. After Result Declaration

- **After evaluation of internal assessment answer scripts, the scripts are given to students to have an idea of their performance in the test. If they come across any doubts, clarification is given which enables them to fare better in future. If students found any deviations in the answer paper, they can apply for revaluation or re-totaling.**

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Response:

Thamirabharani Engineering College has well-defined learning outcomes based on the course outcomes provided by the affiliating body Anna University, Chennai.

Our college has contributed in exposing students to emerging technologies to explore new subjects and deepen their understanding of difficult concepts and instilling entrepreneurial attitude in them. Our institute dedicates itself to empowering students through outcome based teaching and learning processes.

The Program Outcomes(POs), Program Specific Outcomes(PSOs) and Course Outcomes(COs) are disseminated to teachers and students through following modes

1. College website (CO, PO, PSO)
2. ERP course page (CO)
3. Notice board (CO)
4. Question Papers (CO)

File Description	Document
Upload COs for all courses (examples from Glossary)	View Document
Upload any additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

The College has put in place an efficient and proper system for achieving POs and COs that have been approved by the Governing Body. The achievement is ensured through proper curriculum delivery, which is supplemented by other activities for the students' overall development. The College offers a variety of co-curricular, extracurricular, and extension activities to help students meet the informed learning outcomes (PO, PSO, and CO) of all programmes. The applicable program's programme and course outcomes are assessed through a direct and indirect evaluation procedure.

The Attainment of Programme Outcomes(POs), Program Specific Outcomes(PSOs) and Course Outcomes(COs) are evaluated by two methods.

1. Direct PO PSO Assessment Process

1.1. Based on Direct Course Assessment: Direct attainment of CO is measured in the scale of 0 - 3 level.

1.1.1 Internal Assessment: Students assessed based on different activities such as MCQ, Assignment, Tutorials, Quiz Puzzles, etc., Internal Examination question papers are defined with CO for each question. On completion of Internal Assessment (IA), marks scored by the students CO wise are averaged up. CO attainment is calculated by considering 90% of IA test level and 10% of activities level. CO attainment is met which is based on the students achieving the defined target.

1.1.2.External Evaluation: Since End Semester University examination Evaluation is not available CO wise, total mark is considered for CO Attainment. CO attainment is calculated based on the students achieving the defined target.

Direct attainment of CO is calculated by considering 80% of university Examination level and 20% of IA Level.

1.2 Based on Indirect Course Assessment: Course Exit survey and Program Exit survey are carried out ,where students give feedback in the scale of 1 to 5, are summed up in the proportion of 80:20 respectively.

Final course wise PO PSO Attainment: :For attainment calculation, Average of Direct CO- PO attainment data from CO - PO Correlation matrix is collected for all courses and Indirect Course Assessment are summed up in the proportion of 80:20 respectively.

2. Indirect Method for PO PSO Attainment: Program Exit survey collected from students who are going to graduate at the end of the eighth semester.

Final Attainment for PO PSO Attainment: Sum of Final course wise PO PSO Attainment and Indirect Method for PO PSO Attainment in the proportion of 80:20 respectively.

If PO PSO reached the level of 3, then PO PSO attained, else Not.

File Description	Document
Upload any additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 81.07

2.6.3.1 Total number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
93	146	111	111	113

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

2020-21	2019-20	2018-19	2017-18	2016-17
98	150	162	150	160

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Paste link for the annual report	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 currently enrolled students (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: 0

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)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description

Institutional data in prescribed format

Document

[View Document](#)

3.1.2 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 0

3.1.2.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

3.1.2.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	5	5

File Description

Institutional data in prescribed format

Document

[View Document](#)

3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the last five years**Response:** 54**3.1.3.1 Total number of Seminars/conferences/workshops conducted by the institution year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
22	8	10	8	6

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document

3.2 Research Publications and Awards**3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years****Response:** 0.27**3.2.1.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
10	2	4	1	1

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.2.2 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:** 0.06**3.2.2.1 Total number of books and chapters in edited volumes/books published and papers in**

national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	2	0	0	0

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3 Extension Activities

3.3.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

Extension activities aim to develop the personality of students through community services and to make them sensitive and responsible human beings who are aware of the socio-economic realities of India. Extension activities are encouraged to be taken up by the students to improve their holistic development. The students are encouraged to actively participate in extension activities through NSS unit and YRC club.

The institute has an active NSS unit and YRC club which take activities to make the campus green and clean and doing community services by conducting awareness programs and tree plantation camps in nearby villages. Our NSS student volunteers and faculty members actively participated in a special camp in the nearby village in collaboration with the Village Panchayat. Cleaning activities, health awareness program, leprosy awareness program, tobacco awareness program and tree plantation programs were conducted in the camp. The extension activities conducted by the institution through the NSS and YRC units of the college in 17 nearby villages are cleaning holy places, cleaning villages, road safety awareness programs, tobacco awareness program, AIDS awareness programs and tree plantation programs.

The students and faculty members actively participated in mission clean Thamirabharani River in collaboration with District Collectorate in 2017, 2018 and 2019 as a part of Swachh Bharat initiative. The NSS unit of our college rewarded with certificates from District Collector for the three years. The YRC unit regularly organizes blood donation and blood identification camps in collaboration with Govt. Medical college, Tirunelveli and Tamil Nadu Mercantile Bank. For organizing blood donation camps, the college NSS unit received awards from Tamil Nadu state blood transfusion council and Tamil Nadu state AIDS control society for 2017, 2018 and 2019. Traffic awareness programs were conducted in collaboration with Tamil Nadu State Transport Corporation. Traffic rallies were arranged with the guidance of Police department. During COVID 19 pandemic period, the college conducted several online health awareness programs in which all students and staff members were attended. The college organized COVID 19 vaccination camps thrice for the benefit

of students, staff and public.

Impact

Thamirabharani Engineering College organizes extension activities in the neighborhood community that sensitize students towards community issues, gender disparities, social inequity, etc. and inculcates social values and commitment to society. The college imparts social values and responsibilities to the faculty members and students by conducting extension activities in the neighborhood community for development of the society. Extension activities are carried out in the neighborhood community for sensitizing students to social issues and for their holistic development. Through extension and outreach programs, the institution sensitizes the students to develop social values, widespread their responsibilities and knowledge in societal issues and problems by making them to involve with the community people. These activities help to create awareness on social issues among public and students. The extension activities help the students to hone their leadership, organizational and communication skills. Each department conducts various programmes to sensitize students and most teachers work towards inculcating these values in their classroom teaching and as living examples.

File Description	Document
Upload any additional information	View Document

3.3.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 6

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	2	2	0

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 28

3.3.3.1 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
5	6	5	6	6

File Description	Document
Reports of the event organized	View Document
Institutional data in prescribed format	View Document

3.3.4 Average percentage of students participating in extension activities at 3.3.3. above during last five years

Response: 85.56

3.3.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
523	487	439	528	536

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document

3.4 Collaboration**3.4.1 The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-job training, research etc during the last five years**

Response: 19

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

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	1	2	13

File Description	Document
Institutional data in prescribed format	View Document
e-copies of linkage related Document	View Document

3.4.2 Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years

Response: 18

3.4.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	1	2	13

File Description	Document
Institutional data in prescribed format(Data template)	View Document
e-Copies of the MoUs with institution./ industry/ corporate houses	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

“Learning by Doing”

With this Mantra, our college seeks to impart Technical Education of high caliber to meet the growing needs of Engineers and Entrepreneurs in business and industry. The Thamirabharani Engineering College is sponsored by Kalaiarasi Educational Trust, a registered Charitable Trust. This college is mainly established for the betterment of the downtrodden people of Thatchanallur of Tirunelveli district.

Thamirabharani Engineering College, Chathirampudukulam, Chidambaranagar - Vepenkulam Road Thatchanallur, Tirunelveli 627 358 established in the year 2011 by Kalaiarasi Educational Trust, is a non-profitable institution. A well-defined vision, highly committed mission and dedicated leadership facilitate the college to be in the list of best of educational institutions in the southern zone. It is built in an area of 24.28 acres. The college has a digital library to satisfy the fore mentioned need.

As per the norms of AICTE, New Delhi and Anna University, Chennai, the institute has adequate facilities for teaching-learning process. The Campus has multistoried buildings consisting of well-furnished class rooms, drawing halls, seminar halls, conference hall, library, Air-Conditioned Computer centers, staff rooms and student rest rooms. The infrastructure also consists of accommodating laboratories, workshops of various academic curriculum and engineering disciplines. In all 26,918.42.sq.feet of buildings have been constructed for effective teaching learning process. The management is conscious of updating every need to augment the infrastructure.

In order to facilitate the easy accessibility for the students, 203 numbers of computers have been installed so far. This shows the management’s conviction in providing essential infrastructure for the Hands on Training to the students of our college.

Library

The college has an automated library with more number of volumes of books on different disciplines, with separate section for the international and national periodicals, so as to provide effective

learning resources to the students.

Generator

Besides, a standby power generator 63 KVA is available in the campus to take care of the occasional power shut down due to maintenance.

Facilities for the disabled students

The campus has ramp facilities to facilitate the differently abled to move by the wheel chair, without any difficulty. Special provision is facilitated for these students to write the university exam in the close proximity of the Exam Cell and scribe for the visually disabled students is also provided.

Transport

The College provides accessible transport facility with buses plying to and fro connecting all remote corners of Tirunelveli, Tenkasi and Thoothukudi districts.

The college has the following facilities available for curricular, co-curricular and extra-curricular activities:

- Spacious rooms for instruction with proper ventilation are available to accommodate the students and they create a conducive environment for the most perfect learning activity.
- LCD Projector facilities are available in the class rooms.
- Separate hostel facilities are available for boys and girls. Tidy rooms and hygienic facilities make an ideal stay away from home ambiance.
- A mineral water plant is operated within the campus and has a well maintained RO facility. This water is used for cooking, drinking and is available throughout the campus.

File Description	Document
Upload any additional information	View Document

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

Response:

Facilities for Sports:

The Physical Education Department of Thamirabharani College of engineering has been established in 2011. It took the responsibility not only to provide the necessary infrastructure that helps the students to inculcate good habit of playing games but also to develop the sportsmanship and comradeship.

Regular physical activity promotes growth and development and has multiple benefits for physical, mental, and psychosocial health that undoubtedly contribute to learning. Physical activity programming specifically designed to do so can improve psychosocial outcomes such as self-concept, social behaviors, goal orientation, and most notably self-efficacy. These attributes in turn are important determinants of current and future participation in physical activity. College has sports facilities for outdoor games and indoor games like Badminton, Carom, Chess etc.

- The college playground which has been used by the college since 2011.
- An average 100-150 students use it daily.
- The institution has sports room and store room.
- The players are provided Track suits and T- shirts for practice.
- There is provision for providing TA/DA to players for participating in State and National events.
- Winners are felicitated with mementos/ cash awards.
- Dias, Mike arrangements, Podium, Banner for felicitation during annual meet are arranged by the institution.

Yoga Center

In this modern age of stress and hard work, every individual needs peace of mind and to overcome the stress, yoga is the best remedy. Yoga practice makes one's body and mind healthy. It not only keeps one fit but also enhances human ability to think and increase power of concentration. We used to conduct yoga for our students.

Facilities for Cultural Activities:

- For encouraging students towards cultural activities, the institute organizes many competitions like dance, singing (group and solo), writing, debate, rangoli, flower decoration, poster making, painting etc.
- Refreshment and Lunch is provided to all the participants, students and staff

for various events.

- Provision of separate in-charges for various events during annual day.
- Winners are felicitated in the annual day with mementos/ cash awards.

Also, the students are motivated to participate in cultural events in inter college competitions.

File Description	Document
Upload any additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 25

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 0

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Upload audited utilization statements	View Document
Institutional data in prescribed format(Data template)	View Document

4.2 Library as a Learning Resource

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

Response:

Library is automated using Sathya InfoTech Software, Integrated Library Management System.

- **Name of ILMS software : Sathya ILMS**
- **Nature of automation : Fully**
- **Version : 1.0**
- **Year of automation : 2015**

The College has a Library in Admin block with multiple volumes of recent and relevant books in every subject by authors of National and International repute. A full range of services is provided in the library, which includes References, Scan and Photocopy of materials, Access to E-Journals and browsing Internet. To enhance the quality of learning among students, the college subscribes National Journals and International Journals. We also provide Newspapers, previous year question papers for students. Competent teachers instill in the young mind the habit of reading all the dailies and magazines which transform the students into scholars.

Owing to the advent of technology and speed of process in the library system, all the functions are automated. Catalogue (OPAC) of the holdings is available for online access through web. For handling thousands of books and journals periodically, library automation has been evolved from the beginning. Open access system is followed in the library.

The implementation of e-resources in Thamirabharani Engineering College is helpful for our students to ensure exhaustive and pinpointed information. The e-resources provide themselves various search options to the students and staff. Using of e-resources enable the library to save space of library and time of the students. E-resources are useful for libraries as well as each and every students of our college who are starving to get a variety of information through the globe. Enhancement in Infrastructure like high speed network, Wi-Fi in the campus, LAN portals at various rights to use points in the campus and also in departments prepared to improve the practice effectively.

The library gives students and staff members, free access to expensive academic sources like scholarly research articles, text books, and more. Our college encourages them to spend more time

on Library. Nearly 106 students and 24 staff members a day gain knowledge by making use of our library. In addition we have Library hours every week to gain a strong academic record and for the betterment of our students as well. And importantly our college library supports our students by allowing them to access library every week even every day which helps them to think out of the box and to learn more beyond the syllabus.

Thus our college library helps our students as well as teachers to gather more knowledge about any particular subject, to get to know it as a general purpose resource they can use over time, to find a type of resource to solve a current problem, achieve a goal or meet an interest and to learn how various topics can conventionally be categorized and integrated with each other.

File Description	Document
Upload any additional information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 709122

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
766578	756928	724939	705238	591927

File Description	Document
Institutional data in prescribed format(Data template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 20.47

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 130

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

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Institution has adequate and latest IT infrastructure. The IT infrastructure and resources are updated and upgraded continuously as per the requirements and changing technology. The entire Institute is Wi-Fi enabled with necessary firewalls and computer labs are connected through LAN with internet facilities. The description of the same is provided below.

Computer lab: It is well-equipped with branded PC's adequately supported by 50 Mbps leased lines for internet connectivity. It is also equipped with a wide range of licensed system software and application software. The entire campus is connected with LAN Messenger. Computer labs are well connected to the internet help students and faculty to carry out their academic and other work. Lab assistants are available to support students and faculty in their queries.

All Classrooms are provided with ICT facility for enhancing teaching learning process. The configuration of Computers: Acer Desktop Veriton PDC @ 2.7 GHZ /@2GB/320GB/18.5”TFT Monitor Dell Inc. OptiPlex 360, Phoenix ROM BIOS PLUS Version 1.10 A02 Intel® core™ 2 Duo CPU E7400 @ 2.80 GHZ (2CPUs), -2.8GHZ20148MB RAM Directx11 Dell 15” Monitor.

LAN facility: 3-Layer Switching (Core, Distributed and Access) model is implemented. Core layer switches in the buildings are connected with the Optical Fiber Ring Network. This core switching is further extended to distribute switching for departments. Where 100/1000 Mbps (Gigabit Switches) are installed. As per the requirements of access point 10/100 (Megabits) or

100/1000 (Gigabit Switches) are used.

Wi-Fi facility: IT department extend the complete support to the students. It is made available by setting and installing the Wi-Fi zones at various locations in college campus. The institute has currently state-of-art Wi-Fi access points to provide the Wi-Fi internet access through Wi-Fi zones.

Open Source / Licensed softwares: Institute has various softwares needed for academic purposes which includes Oracle, MATLAB, Microwind, NetSim, Xilinx ISE, Proteus VSM, Orell, Creo, ANSYS, autoSIM, DOE++, AutoCAD and SolidWorks apart from basic software like Office, Tally, NS2, Wireshark, python, R, open GL, Spark, and Hadoop, C++ Builder 2009 academic licenses Network Named User, Training of IBM Rational rose software Architecture, Orell Digital Language Lab, Communication System Toolbox, Control System Toolbox, Simpower System Toolbox, Simscape etc.

Licensed version of OS: The institute has licensed copies of Windows Operating System and also works with open-source operating systems like Redhat and Ubuntu Operating system.

I/O Devices: The institute purchases printers as per the requirements given by the departments. The institute has in all 6 laser printers and 6 Ink tank printers.

LCD Projectors: Upgrading of IT is seen in teaching learning process as OHPs in the institute have been intermittently replaced by LCD.

Upgrading Policy: Computers are upgraded every year by replacing certain old machines with the new ones.

Virtual Labs: A Few practical are being conducted using virtual labs concept of IIT.

Online Lectures: During Pandemic (Covid'19), the online lectures and practical are done through Google class room and by using other ICT tools.

File Description	Document
Upload any additional information	View Document

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

Response: 3:1

File Description	Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution**Response:** A. 750 MBPS

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

4.4 Maintenance of Campus Infrastructure**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)****Response:** 798685.26**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)**

2020-21	2019-20	2018-19	2017-18	2016-17
1993000	2011000	1758000	1422000	1245000

File Description	Document
Institutional data in prescribed format(Data template)	View Document
Audited statements of accounts	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.**Response:**

Thamirabharani Engineering College has the policy for infrastructure maintenance as specified by the statutory bodies both in terms of quality and quantity. We provide the best infrastructure to all its departments and other functional areas to ensure the infrastructure needs and the requirement of teaching learning process. Periodic inspection with checklist are performed and documented for ensuring optimal allocation and utilization of the available financial resources in every academic/financial year for maintenance and upkeep of physical, academic and support facilities. The inspection and action report is verified by the General Maintenance committee. The committee is headed by the maintenance coordinators, which comprises of members from Civil, Mechanical, Computer Science, Electronics and Electrical departments. It comprises of coordinators, staff-in-charges and other supporting staff members.

Class Rooms:

Class rooms are allocated to all departments along with necessary ICT tools. The class rooms are utilized as per the prepared time table of the department. The class rooms are cleaned on every day's basis monitored by staff in-charge. Head of the institute, HoD's and Class teachers also monitor the cleanliness to ensure the class room cleanliness is maintained well.

Infrastructure Facilities & Computers:

All classrooms are ICT facilities enabled classrooms for effective teaching and learning. The institution has a well developed computer laboratory and well maintained website by the department of computer science, which reflects all the activities organized and executed in the campus and off the campus. The maintenance works include replacement or repair of computers and accessories, hardware up gradation, software installation and up gradation, ICT maintenance, Wi-Fi maintenance, troubleshooting issues etc. Computer labs are updated with advanced software in every department. Plumbers, Mechanics, Carpenters and Painters provide their services on need basis.

Library:

Librarian with supporting staff has been appointed to maintain central library. They focus on the availability and utilization of instructional material in teaching and learning process. At end of the Academic year stock verification is used to get done. Librarian used to prepare the report on the same and utilization of books by the students and staff. Procurement of books as per the requirement is initiated through library committee by inviting the requirement of books from various departments this is then processed by following the procurement procedure.

Sport complex/ground/equipments:

Physical Director of the institute looks after the sports facilities and the activities. The sports equipments are issued to the students as per the schedule of the events. If any equipments get faulty, Physical Director submits proposal for maintenance. Preventive maintenance measures are taken in time. Physical Director is responsible for keeping the record of utilization of sport Facilities, activities held and awards for the students etc. There is a playground inside the campus where students play different outdoor games like volleyball, cricket, football, etc. The college has facilities for indoor games also.

Laboratories:

Each laboratory has a lab in-charge and a Lab Assistant. Lab in-charge is responsible to maintain and upgrade the laboratory with necessary equipments from time to time to cope with change in the syllabus. Dead stock verification (Physical Verification) is carried out to verify working/nonworking/missing equipments etc. Preventive maintenance and performance monitoring is carried out. Every laboratory assistant keeps the record of utilization of equipments, computers and other required material for experiments.

Toilet Hygiene:

Each toilet is cleaned twice a day, which is checked by the Staff-in-charge concerned. Care is taken in providing open window, cleaning with phenol, detergents and use of naphthalene balls.

Separate Hostels for Girls and Boys:

The hostel ensures that students feel at home, with the best amenities and comfort so that they can put their hundred percent concentrations into their academic and extracurricular engagements. Also, all the hostel room amenities are verified and maintained periodically.

Fire Resisting Kit:

Thamirabharani Engineering College campus has fire extinguishers in each building and department. Fire extinguishers of ISI mark of adequate capacity and numbers are provided in eye catching spots in the college buildings especially in all laboratories. Fire extinguishers are well maintained and checked periodically and refilling is done well before the due date.

Mineral Water:

Every block is provided with RO purifier for providing high quality drinking water and maintained periodically.

Transportation:

The College owns a fleet of buses which is provided to all students and faculty. It connects all the areas in and around Tirunelveli, Tenkasi and Thoothukudi to facilitate the students and faculty for their convenience. Buses are regularly cleaned by the cleaners. Roadside assistance, Vehicle fitting, Vehicle body and paint repairs are carried out by the qualified transport maintenance team.

Security:

Standard procedure is followed for the securities of the college for round the clock monitoring the campus. The securities are headed by chief security. They secure the areas of parking, gate, hostel, etc.

CCTV:

The campus is monitored through CCTV cameras, placed in areas which cover the entire campus zone and maintained periodically.

Garden:

The gardens in the campus are maintained periodically by the garden committee and other supporting staff.

File Description	Document
Upload any additional information	View Document

NAAC

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 93

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
531	462	507	611	640

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 29.74

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
236	209	139	143	129

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

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

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

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 51.17

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

2020-21	2019-20	2018-19	2017-18	2016-17
280	368	220	226	408

File Description	Document
Institutional data in prescribed format	View Document

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

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

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

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

Response: 65.69

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

2020-21	2019-20	2018-19	2017-18	2016-17
81	126	90	110	56

File Description	Document
Self attested list of students placed	View Document
Institutional data in prescribed format	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 11.22

5.2.2.1 Number of outgoing student progressing to higher education.

Response: 11

File Description	Document
Upload supporting data for student/alumni	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

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

government examinations)

Response: 16

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	4	0	0

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	5	0	0

File Description	Document
Upload supporting data for the same	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

5.3 Student Participation and Activities

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

Response: 1

5.3.1.1 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) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	1

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Response:

The institution encourage the students to give their involvement through their representation in administrative, co curricular, extra curricular committees/ cells/ clubs like Class committee meeting, DAC, Class Representatives, Department association members and organizers for various department and college level activities.

Every year for selection of class representatives, Head Of Institution organize a meeting and he finalized the representatives. The process of selection of norms of viable students are framed and selected by heads of the respective departments. For every class two students are appointed as representatives, each one from boys' and girls' in order to maintain gender ratio.

In Class Committee Meeting, Six students' were selected; three boys and three girls based on their previous results and involvement in co curricular, extracurricular activities, segregated as high medium and low. General grievances and academic improvement ideas were asked and sorted.

Department level activities are majorly organized by student committee. Every department of our institution has a department association, mentored by a faculty in charge. The association comprise of three steering student members, a chairman, two secretaries, one treasurer. The department association will organize technical symposium and other department related activities like seminars and workshops.

In IQAC cell, two students from our institution are assigned as IQAC Department representatives. The representatives are selected by Principal based on the suggestion of Heads of Department.

In Department Advisory Committee in respective department, students' contribution is encouraged in our institution. Two students from pre-final and final year are selected by the Head of the Institution based on the recommendation given by the heads of department. Their valuable suggestions are asked and discussed for the upliftment of the institution

Our institution has 17 dynamic clubs run by students coordinated by faculty members. Each club presided by two student coordinator and willing members. They organize regular club activities. By inculcating the practice of student steered club activities, the student community of our institution are gaining practical problem solving skills and leadership qualities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 2

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
4	2	2	1	1

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Institutional data in 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 network is crucial to any institution as they are the ambassadors of the institute. Alumni are the voice of the college and every college wishes its students to settle in a colorful way in their lives. The institute has a registered alumni association for building strong bond between and present students. The alumni give support to the students through interaction, financial funding, guidance and placement. The alumni association of the institute is called as TECAA i.e. Thamirabharani Engineering College Alumni Association. This was registered under Tamil nadu societies registration Act. 1975 (Tamil Nadu Act 27 of 1975) with SI. No. SRG/ Tirunelveli/4/2022. The office headquarters of TECAA is in the premises of Thamirabharani Engineering College, Thatchanallur, Tirunelveli- 627358, Tamilnadu, India.

VISION:

To be, and to be recognized for setting the standards of excellence in engineering education and high quality research in science and technology.

MISSION:

The mission of the alumni association is to foster a mutually beneficial relationship and its alumni. Alumni

meet is arranged in the month of August of every year.

OBJECTIVES:

- ? To communicate on a regular basis with the members of the alumni and the college keeping mutually informed the developments of the alumni as well as the university.
- ? To organize social, educational and networking events locally at the college/institution/school/center and at batch level.
- ? To provide for the alumni platform to connect to college and to assist recent graduates and current students in shaping their career.
- ? To initiate and develop programs for the benefit of the alumni.
- ? To serve as a forum through which alumni may support and advance the pursuit of academic excellence at the institution.
- ? To organize and co-ordinate reunion activities of the alumni and let the alumni acknowledge their gratitude to their alma mater.
- ? To collect, publish and distribute such information as may be useful to the alumni and their alma mater.

ACTIVITIES AND CONTRIBUTIONS:

- ? Alumni have donated funds to assist the poor & merit students of the institution.
- ? The Alumni also contributes significantly through rendering their support to various committees formulated in the college for the integrated functioning of the institution. In certain committees like placement cell, Department Advisory Committee, IQAC and the Alumni cell, the alumni are involved directly and share their constructive and productive inputs to the comprehensive development of the college.
- ? Alumni are invited for meetings at the college and they interact with their teachers and express their suggestions on curriculum revision.
- ? Few alumni gave guest lectures to the existing students on some contemporary technological developments and career guiding focuses.
- ? The Alumni of TEC in collaboration with the Training and Placement cell has contributed to progression of the placement opportunities of the students. The Alumni association renders financial support which is extended to deserving students whose parents do not have a fixed source of income.
- ? Alumni meets have been arranged in the month of august of every year.

File Description	Document
Upload any additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: A. ? 5 Lakhs

File Description	Document
Upload any additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

VISION:

- **To be a center of excellence in Engineering, exposing emerging technologies and instilling Entrepreneurial Attitude.**

MISSION:

- **Empower students through effective teaching and learning processes for the development of critical thinking, effective communication and creativity.**
- **Develop industry readiness by encouraging learning by doing, exposing current innovations and providing adequate facilities for Research.**
- **Create the entrepreneurship desire by developing individual skills, professional ethics, moral values and societal concern**

Reflection of Mission and Vision in the leadership & Participation of Teachers in Decision Making Bodies:

The powers of decision making is delegated to the Head of the Institution by which the key areas like Institution Administration, University Compliances, Institution Strategies and Policies, Financial Matters, Research & Development, Government & Social interface and other proceedings in the office are executed for smooth functioning of the institute .

To facilitate and maintain the efficiency to implement the above areas of activities, various dedicated academic and administrative committees are formed such as Governing council, Internal Quality Assurance Cell, Department Advisory Committee, Class Committee Meeting, College Maintenance Committee, Admission Committee, Staff Selection Committee, Discipline Committee, SC/ST Committee, Internal Complaint Committee, Exam Cell, Alumni Committee, Start up and Innovation

Cell, Women Empowerment Cell, Student Grievance Cell, Anti Ragging Cell, Training and Placement Cell, Faculty Welfare Cell.

Our college has 12 active Clubs which provide the activities for the students, faculty and staff. These club activities are periodically conducted and enrich the student's skills which are needed to cope up with the industry. Clubs are Designer Club, ECO and Swachh Bharath Club, English Proficiency Club, Fine Arts Club, Fit India Club, Safety Club, RAI Club, Renewable Energy Club, Rotaract Club, Yuva Club and Self Development Club. The various clubs activities are organized by Rotaract Club (NSS, YRC, RRC), Yuva Club, Fine Arts Club for developing individual skills, professional ethics, moral values and societal concern to attain the TEC's Vision and Mission.

The Institute has a set of well defined policies of Governance that have been framed in close consultation with the stakeholders. Thereafter, faculty members remind the students from time to time regarding the importance of adhering to these policies. There are policies pertaining to faculty members' conduct and employment process.

Decisions taken by different committees are deliberated at the level of the Principal's office. Collective decision making is encouraged at all levels. In view of the above, the Institute plans and declares various academic committees covering both faculty and administrative staff. The Institute follows delegation, decentralization and empowerment policies while entrusting the responsibilities to faculty and staff. The delegation of responsibilities leads to transparency, faculty development and faculty enrichment. All faculty members are given certain administrative responsibilities.

The faculty members are involved in multiple activities including teaching, research, training, administration and Industrial consultancy. They are mainly responsible for designing course curriculum, revision, proposal and introduction of new courses, delivery of programs, and continuous assessment. The different academic activities are carried out by the faculty members through various committees in close coordination with students.

File Description	Document
Upload any additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

Institute's management believes strongly in decentralization of authority and participative management inclusive of teaching, non-teaching staff members and students. The Principal, HODs and IQAC are responsible for academic and administrative leadership of the institute. Principal conducts meetings of various committees to discuss and review academic and administrative issues. Accordingly various academic as well as administrative committees are formed for the purpose of decentralization and proper functioning of the institute.

DECENTRALIZATION

Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards a decentralized governance system.

Principal Level

The Governing Body delegates all the academic and operational decisions headed by the Principal in order to fulfill the vision and mission of the institute.

Faculty Level

Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co-curricular, and extracurricular activities. They are given authority to conduct industrial visits and to have tied up with industry experts and appointed as coordinator and convenor for organizing seminars/workshops/conferences/FDP.

Student Level

Students are empowered to play an active role in co-curricular and extra-curricular activities and in all committees and clubs.

PARTICIPATIVE MANAGEMENT

The institute promotes a culture of participative management by involving the staff and students in various activities. Both students and faculties allowed expressing themselves of any suggestions to improve the excellence in any aspect of the Institute.

File Description	Document
Upload any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

For any Institution, strategic planning is very essential to achieve the Vision and Mission. Strategic planning is a continuous process with a specific focus on accomplishing Institutional goals. Strategic Planning and Deployment Document is based on analysis of current hurdles and future opportunities. It foresees the direction towards which the Institution should move to achieve its Vision and Mission.

The first part of the Strategic Planning and Deployment Document is to address the vision, mission of the Institution with core values. These are defined and guided by the Governing Council Members, Principal, HODs, faculty, staff, students and external stakeholders (employers, industry, alumni and parents) through SWOC analysis. After analyzing the internal and external environment, the institutional goals were set up in all possible growth domains through continuous thought process and discussion with HODs and faculty members. The strategies with action plans were decided to achieve institutional strategic goals.

While formulating the strategic plan and deployment document, care has been taken to involve all stakeholders to contribute their part which is vital for the success of every organization. Effort has been taken to identify clearly the implementation processes and monitoring by identifying measurable targets in line with the desired outcomes. This will emerge to be the guiding force for TEC to achieve its goal to become an institution of Academic Excellence and providing professional by skilled young Engineers and Managers to the society.

The team of TEC after innumerable discussions and planning, guided by the Mission, Vision and Core Values of the Institution, Stakeholders feedbacks and SWOC analysis have framed the Institution's strategic Goals.

Institution Strategic Goals

- To practice effective teaching learning process
- To emphasize on Industry Institute Interaction
- To enhance mentoring system for development of mentees
- Initiation of leadership and participative management in societal, environmental and human contexts
- Active involvement in communal development activities
- To promote research and development activities
- Providing good governance
- To prepare for accreditation process to improve the quality of Institution
- Continual improvement through IQAC

File Description	Document
Upload any additional information	View Document
Strategic Plan and deployment documents on the website	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Response:

The organogram is an administrative diagram of the College describing the decentralized structure of administration. College administration is a cooperative effort of the Principal, teaching, non-teaching staff and students with the cooperation and support of all stakeholders in pursuit of a common objective. It is necessary that all aspects should be organized in order to attain the desired goals. Governing council and board of trust perform the functions like strategic planning and reporting, determine the vision, mission and values of the college, policy development, application of resources and the budget.

IQAC has been established in the college, which meets twice in an academic year to assess the quality deliverance of engineering education in the institute leading to achieve the course and program outcomes. The information about the participation of staff and student achievements in the curricular, co-curricular activities and extra-curricular activities are evaluated and quality initiative activities are taken up in the IQAC.

As the Head of the Institution, the Principal takes the leadership and gives direction to various activity based institution level committee coordinators and it is implemented through committee members. The Principal periodically gives guidelines and monitors the activity of each department through HoD. Principal verifies regularly the activities of librarian, teaching and placement officer and hostel deputy warden. Principal is the Warden of all hostels in the premises. The Principal also looks after all the teaching and the non-teaching Staff.

Under the administration of Principal, various Committees are formed which include Governing council, Internal Quality Assurance Cell, Department Advisory Committee, Class Committee Meeting, College Maintenance Committee, Admission Committee, Staff Selection Committee, Discipline Committee, SC/ST Committee, Internal Complaint Committee, Exam Cell, Alumni Committee, Start up and Innovation Cell, Women Empowerment Cell, Student Grievance Cell, Anti Ragging Cell, Training and Placement Cell, Faculty Welfare Cell.

Our college has 12 active clubs which provide the activities for the students, faculty and staff. These club activities are periodically conducted and enrich the student's skills which are needed to cope up

with the industry. Clubs are Designer Club, ECO and Swachh Bharath Club, English Proficiency Club, Faculty Welfare Club, Fine Arts Club, Fit India Club, Safety Club, RAI Club, Renewable Energy Club, Rotaract Club, Yuva Club and Self Development Club.

Training and Placement officers train the student for getting placement as well as organize the placement drive inside the campus for the betterment of the student community. Office Superintendent is the head of non teaching staff and ensures the administration of various sections like cashier and accountant, maintenance officer, transport officer, store and purchase incharge and office staff.

File Description	Document
Upload any additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Institutional data in prescribed format(Data template)	View Document
ERP (Enterprise Resource Planning) Document	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

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

Response:

Thamirabharani Engineering College makes sincere efforts to enhance and enrich the professional development of its teaching and non-teaching staff. Some of them are as follows: Professional development programs in various areas are regularly conducted in the college. The College regularly conducts seminars. At these seminars the faculty gets an opportunity to interact with experts from different fields. Regular workshops are conducted to familiarize the staff members with the changes

in syllabus or new developments in the field, through workshops conducted by the colleges. Faculty members are encouraged to attend seminars and conferences. Experts from the industry and academia are called to address the staff. Faculty members are encouraged to take up Minor and Major research projects. Institute promotes the senior faculties for quality improvement and higher education like Ph.D. and also for research activity. The Institute recognizes the importance of the dedicated faculty for realizing its vision. Institute has a HR policy for recruitment of a competent faculty. Faculty is encouraged for qualification enhancement and carries out consultancy activities. Performance appraisal of faculty is done annually. ESI benefits for faculty, staff and their family members are provided. Representation of women in various academic and administrative bodies is ensured at all levels of organization and their safety and security is given the top priority.

In our Institution, we all united as TEC Family. Our college management considers staff welfare is of the utmost importance.

1. Staff can avail Casual Leave per month and it can be carried out for the next month.
2. Faculty can avail 10 On Duty leave in each semester for AU theory, practical examination as well as central valuation.
3. Faculty can avail 12 days as vacation leave in odd semesters and 8 days in even semester.
4. Medical Leave is provided for eligible staff members.
5. Sponsorships are given to the staff for attending workshops, seminars, faculty development program and professional body membership. In addition to that, faculty are motivated and given allowance to attend the conferences.
6. Faculty can avail the permission to pursue higher education (Ph.D).
7. Compensation leave is eligible for the staff who work during the holiday.
8. Faculty can avail leave for other college's visit to improve the quality.
9. Staff tour is arranged for the academic year.
10. Faculty can be benefited with Provident Fund.
11. Faculty Recreation Feast is arranged for the staff in the special occasion
12. Staff is benefited with ESI
13. During pandemic, Covid-19 vaccination and covid-19 relief fund is also provided for the staff.
14. The appreciation award is given to the staff who have given more effort for improvement of the institution.
15. Drivers and menial staff can avail their lunch in the college.

The management will always support the faculty and staff in all situations. The staff members can get a healthy and safe environment inside our campus.

File Description	Document
Upload any additional information	View Document

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

Response: 49.7

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

2020-21	2019-20	2018-19	2017-18	2016-17
13	38	38	42	36

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 11.8

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

2020-21	2019-20	2018-19	2017-18	2016-17
11	15	15	11	7

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	View Document
Reports of Academic Staff College or similar centers	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 60.93

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
26	14	54	50	58

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
IQAC report summary	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

The performance of each faculty member is assessed once in a academic year. Self appraisal form is given to the faculty through head of the department. Faculty summarizes their performance in that format and this is received by the head followed by the principal. According to the annual self-assessment based appraisal systems, the faculty's strength and weakness are evaluated. The evaluation procedure is based on Academic performance Level (APL) score. Thamirabharani Engineering College faculty members'

promotions are recommended and based on their APL score. The concerned faculty is required to appear before the principal and management. The corrective actions are recommended for the staff by head of the department and principal. The faculty should go for corrective action given by head and principal. The corrective actions are monitored periodically.

The duly filled in forms are analyzed by the principal and the feedback thus obtained is judiciously addressed for the betterment of the teaching learning process. The performance of the non-teaching staff is appraised by the concerned in charge in the campus. They are assessed on the parameters of efficiency, cordiality and overall helpfulness. These questionnaires too are analyzed by the principal who counsels those non-teaching staff members whose performance has invited criticism or needs improvement. The performance of those teaching and non-teaching staff members who have not fared well in the appraisal system is closely monitored. An improvement in the subsequent performance of the said staff members has been noticed.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The Institution has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. Internal audit is conducted half yearly by the Account Officer of the institution. He thoroughly verifies the income and expenditure details and the compliance report of internal audit are submitted to the management of the institution through principal. External audit is conducted once in every year by an external agency. The mechanisms used to monitor effective and efficient use of financial resources are as below:

- Before the commencement of every financial year, principal submits a proposal on budget allocation, by considering the recommendations made by the heads of all the departments, to the management.
- College budget 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 expenses will be monitored by the accounts department as per the budget allocated by the management.
- The depreciation costs of various things purchased in the preceding years are also worked out.

Process of the internal audit:

The Administrative Officer organizes internal audits in the Accounts section. It is periodically arranged twice in a year. The administrative office team members will be nominated as internal auditors by the Administrative Officer. The internal audit will be carried out by internal auditors in the presence of the

Principal. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. The details of online transactions, vouchers, fee payment details, salary payment details and all other income and expenditure statements, and receipts are verified by the Internal Auditors. If any discrepancy is found, the same is brought to the notice of the principal. The same process has been followed for the last five years.

Process of the external audit:

The accounts of the college are audited by chartered accountants regularly as per the government rules. The auditor ensures that all payments are duly authorized after the audit, 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.

The institution did not come across any major audit objection during the preceding years. All these mechanisms exhibit the transparency being maintained in financial matters and adherence to financial discipline to avoid defalcation of funds or properties of the institution at all levels. The audited statement is duly signed by the authorities of the management and chartered accountant.

File Description	Document
Upload any additional information	View Document

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

Response: 0

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Institutional data in prescribed format(Data template)	View Document

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

Response:

The institution always monitors the effective and efficient use of available financial resources for the

development of infrastructure to support the teaching learning process.

Sources of Income:

- **Our college is a self-financed private Institution; tuition fee is the main source of income such as Scholarships received from Government such as SC/ST, BC and MBC, Pragathi and Beedi Scholarship are considered as tuition fee.**
- **Alumni contribution towards the institute.**
- **Sponsorships are sought from individuals and corporations for cultural events and feasts.**

Mobilization of Funds:

These funds are utilized for all recurring and non-recurring expenditure. The institution has a well-defined mechanism to monitor effective utilization of available financial resources for the development of the infrastructure to augment academic needs. All the coordinators of different cells and clubs submit the budget requirements for the upcoming academic year. The Principal prepares an annual budget estimate duly considering the budgets received from the department.

The Principal and HoD along with the accounts department ensure that the expenditure lies within the allotted budget. The intervention of the management is sought in case the expenditure exceeds the budget. All transactions have transparency through bills and vouchers. Respective faculty members and HoD ensure that suitable equipment/machinery with correct specification is purchased and that the particular item is included in the stock register. The bill payments are passed after verification of items. The entire process of the procurement of the material is monitored by the IQAC, and Principal. Financial audit is conducted by chartered accountant for every financial year to verify the compliance. Statutory auditors are also appointed who certify the financial statements in every financial year.

Optimal utilization of resources

The prepared budget is submitted to the Management, IQAC and GC for approval. Budget approvals will be communicated to the departments and sections.

The institution keeps track of the budget. In any unforeseen circumstances, non-budgeted amount is considered and allotted depending on the merit of the case. The necessary budgetary provisions are done with efficient optimal utilization in the institution.

- **Funds are utilized for purchase of advanced laboratories equipment to encourage research interest of the faculty and students. Enhancement of library facilities leads to novel learning practices and accordingly required funds are provided every year.**
- **Adequate funds are utilized for the development and maintenance of a very good infrastructure of the institute.**

- **Financial support is sanctioned to faculty to present research papers at or to attend National or International Conferences.**
- **Enhancement of library facilities needs to augment learning practices and accordingly requisite funds are utilized every year.**
- **Some funds are allocated for social service activities as part of social responsibilities through NSS, YRC and other clubs.**
- **Effective utilization of infrastructure is ensured through the appointment of adequate and well-qualified lab technicians & system administrators.**
- **The college infrastructure is utilized as an examination center for Government examinations/University Examinations.**

File Description	Document
Upload any 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

Response:

To improve the quality of academics and administration, IQAC was formed in our Institution. The responsibility of IQAC is to frame policies and procedures to monitor the quality initiatives. The objective of the cell is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution at all levels with the involvement of all stakeholders towards quality enhancement through internalization of quality culture and institutionalization of best practices. IQAC emphasizes the adoption of Information Communication Technology tools to enhance the curriculum delivery. IQAC conducts periodical reviews with the heads and representatives of the various Departments. PRACTICE I:

1. Implementation of innovative teaching methodology

Information Communication Technology(ICT) tool allows the students to participate in a student centric approach. The adoption of ICT tools improves the cognitive levels of the students to understand, apply, analyze and exchange information. Initially, seminar hall of all Departments were equipped with ICT tools with audio visuals that facilitated the students to understand and

apply the complex engineering concepts. In course of time, the usage of ICT tools is extended to all 20 classrooms. The course instructors can choose different methodologies for teaching, self learning and assessment modes. The teaching tools can be NPTEL videos, Google classroom, Google meet, virtual labs, Wacom board, and simulation. In addition, they will send the NPTEL videos to students through Whatsapp groups to make them learn leisurely. The college library facilitates the students to have deep learning through the DELNET, National Digital Library of India. The faculty enroll the NPTEL online courses and act as mentors. They assist the student to improve their learning skills. The impact of ICT based teaching and learning helped in improving their knowledge levels in core competencies.

PRACTICE II:

1. Systematic approach in conduct of Internal Assessment Test

The Institution has a well established Examination Cell for the conduction of Internal Assessment Test (IAT) and End Semester Examinations. The Examination Cell is coordinated by the team of faculty and staff members for the smooth conduction of Examination. The exam cell coordinator carries out the quality initiatives under the guidance of IQAC.

The internal assessing mechanism comprises two or three IATs for theory courses and one model assessment for practical courses. For all IATs a separate set of two question papers for every course are submitted by the course instructor to the Examination Cell. The questions are prepared in strict adherence to all the levels of Bloom's Taxonomy pyramid. Time Tables with hall plans are displayed in advance at each Department Notice board. Centralized mechanism is extended for hall duty allotment, question paper and answer sheets distribution and collection. The valuation is carried out at the department level under the supervision of the Head of the department. The grievance regarding revaluation and re totaling should be submitted and the issue will be resolved. Absolute transparency is maintained by providing answer keys while distribution of answer scripts.

File Description	Document
Upload any additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Incremental Improvements – I

The slogan of Thamirabharani Engineering College is learning by doing. The main focus is not just to deliver curriculum but to enhance their technical, societal and environmental, communication, interpersonal, self management skills and personality improvement. Our institution deploys a number of professional activities to groom the students as prominent professionals in the society. Certificate courses are targeted in guaranteeing the students to bridge the gap between their curriculum and industry. These courses cover areas such as environmental threats, materials for offshore and onshore structures, security vulnerabilities, software development management cycle, electric vehicles, software and system modeling, renewable energy sources, PCB Designs and embedded systems. The minimum duration of each course is 30 hours.

The Advance Learner courses are targeted in providing the creamy layer students with a theory cum practical module of the course to be well versed in the latest developments in software and designing applications in their respective domains. This course aids the students to have hands-on knowledge on advanced software related to Web services, Android, IoT, Scilab, Proteus, Ansys, PCB designs etc. The outcome of the courses can be evident in their projects. IQAC insisted the various heads of the departments incorporate the GATE coaching schedule in the regular time table. The faculty with expertise in the core domains handled the GATE subjects to the creamy layer students who are targeting to pursue higher studies/ crack competitive exams / enter core companies as their career path.

Incremental Improvements – II

The success of an institution and its academic and administrative units relies on the ideology of participation and transparency. To achieve excellence in academics, the administrative unit plays a major role in the formulation of directives with specific plans for the implementation of continuous improvement in academic and administrative aspects for the overall quality of the institutional provisions. The academic audit process consists of internal audits and external audits.

The IQAC conducts internal audits to obtain unbiased and independent review through the internal auditors to provide the findings, opportunities and scopes for improvement to the administrative unit. The internal auditors trained by the IQAC conduct the internal audits. The external audit is carried out by the experts from reputed institutions. The internal audit is conducted at the department level by a team of auditors. The components for the internal audit are academic monitoring process, class advisor records, laboratory records, internal examination process, placement & alumni records and professional activities. The different reports and feedback from auditors are reviewed in the department and necessary corrective measures are recommended for further improvement.

For the conduction of external audit IQAC requests the Auditors from the reputed institutions. The components of external audit are faculty information and contribution, records related to laboratory, student performance and outcome based practices. The external auditors submit their reviews as reports and feedback to IQAC. IQAC coordinates with heads of various departments to carry out the necessary corrective measures for continuous improvement.

File Description	Document
Upload any additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Response: C. 2 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Institutional data in prescribed format(Data template)	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

At Thamirabharani Engineering College, both women and men, and girls and boys, enjoy the equal rights, opportunities, resources and protections. This gender friendly campus builds a harmonious relationship between all students. All programs offered are common to all genders without any bias or reservation. Women are treated with dignity and respect. The Institution provides an equitable and inclusive work environment to all employees to have an equal opportunities to contribute, benefit and reach their potential.

The promotion of gender equity is monitored and their security is ensured by the following facilities/measures, 24x7 CCTV/Cameras covers the entire campus for safety reasons and proper entry and exit of visitors are registered and closely monitored. Security guards are deployed round the clock at various places in the academic buildings and on the campus to ensure the safety and also in-house hostel wardens are available 24x7 in both boys and girls hostels.

Proper lighting, security and transportation facilities provided for students and faculty members when they extend working hours for academics and research activities.

Mentors are allotted for all students and they provide personal guidance/discussions and guidance related to career and placements, encourage the students to attend training programs conducted by the placement cell and also motivate the students for self-learning. Any Grievances, Feedback and suggestions are received through mentors/class committee meetings etc.

Separate common rooms are available for both boys and girls students with chairs and tables for personal and medical needs and are located on the ground floor itself, where both male and female attendees are available in the common room and also maintain cleanliness.

A gender friendly classroom environment and its overall management build harmonious relations between boys and girls. Equal participation of boys and girls in teaching learning process and in organizing various events is ensured. Every year, there is a celebration of women's day and inspiring women personalities are invited to share their life experiences. Lectures on women safety are also being conducted periodically. Many gender equity programmes are conducted every year to prevent the occurrence of personal and social issues especially toward gender sensitivity and to enhance the harmonious relationship between girls and boys.

File Description	Document
Specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: C. 2 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

1. Solid waste management:

Our college has a strong waste management system. Our college continues to invest in a waste management system and a sufficient number of workers maintain the college campus and hostels clean. The paper wastes, plastic wastes, food wastes etc. are segregated into biodegradable and non-biodegradable wastes. Biodegradable wastes from canteen, kitchen and other places are collected in dustbins and segregated. The recycle wastes such as examination papers are collected and periodically supplied to the local recycling vendors to avoid wastage dumping. One sided papers are re-used by the faculty members for rough work. Non-biodegradable waste such as metals and other scraps are comparatively less in our campus. Mostly they are repaired and serviced for re-use.

Communication to faculty and students to the maximum is done through mails and Whatsapp. Printing is done on two sides.

2. Liquid waste management:

The waste water from our hostels, canteen and various places of college is transferred all around the campus for maintaining its green cover of plants and trees through separate pipelines.

3. E-waste management:

Almost all computers, printers and electronic devices are in working condition. If e-wastes are generated, it is planned to sell them to e-waste recycling company or by “BUY BACK” policy, they are replaced with newer one, for e.g., Batteries for UPS, Monitors, CPU of computers, etc. The toners in the printers are refilled rather than throwing it out after it gets over. The UPS batteries are normally exchanged for new batteries. The suppliers themselves take the used batteries and replace them with new ones.

File Description	Document
Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: A. Any 4 or All of the above

File Description	Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

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

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.**
- 2.Divyangjan friendly washrooms**
- 3.Signage including tactile path, lights, display boards and signposts**
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Details of the Software procured for providing the assistance	View Document
Any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

Our college provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities organized inside the college promote harmony towards each other. Special events like Mission Clean Thamirabharani River, Blood Donation & Blood Group Identification Camp, Dengue Awareness Camp, Cancer Awareness Programme, Road Safety Awareness Programme, health awareness programme, Helmet Awareness Programme, Yoga Awareness Programme, Road Safety Awareness Rally Programme, Tree plantation, Tobacco Awareness Camp, National Safety Day Programme, No Smoking Day Programme, World No Tobacco Day, Covid 19 Vaccination Camp and Vigilance Awareness Program. This establishes positive interaction among people of different racial and cultural backgrounds.

There are different grievance redressal cells in the institute like Student Grievance cell, Anti-ragging Cell and Sexual Harassment Cell which deal with grievances without considering anyone's racial or cultural background. Institute has a code of ethics for students and a separate code of ethics for faculty and staff members which have to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities. All academic facilities are given to students, irrespective of their caste, creed, colour, sex or socioeconomic background.

File Description	Document
Any other relevant information.	View Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

Thamirabharani Engineering College committed to promote ethics and values among students, faculty and staff members to encourage the same. Institute organizes various programmes such as Independence Day and Republic Day to promote patriotism among the students, and National Voters Day to make the students realize their duty and rights as citizens. These events are juncture to educate our stakeholders on issues of domains, to mobilize political and resources to address global problems, and to celebrate and reinforce achievement.

Engineering is an important and learned profession. In this society, engineers are expected to exhibit the highest standards of honesty and integrity. Engineering has a direct and vital impact on the

quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. As a result, we are proud to create a good engineer to meet the challenges of our society.

The study of engineering ethics within an engineering program helps students to prepare for their professional lives. A specific advantage for engineering students who learn about ethics is that they develop clarity in their understanding and thought about ethical issues and the practice in which they arise. The study of ethics helps students to develop widely applicable skills in communication, reasoning and reflection. These skills enhance students' abilities and help them engage with other aspects of the engineering program such as group work and work placements.

Every year our institution organizes many programs related to Ethics such as awareness programs on Environment, Road safety, Mobile Addiction, and Negative use of drug abuse. Outcome of this program is that the students should understand the importance of social responsibilities.

The College has started and supported various clubs / associations such as Fit India club, Swachh Bharat, Rotaract Club, Fine arts club, designers club, Yuva club and Science club to sensitize the faculty and students on Institutional Social Responsibilities. These social outreach clubs have created an impact on the younger minds of students to know the values of humans, their rights and responsibilities. Some of the activities arranged through these clubs are

1. Awareness programs of social responsibilities
2. Blood donation camps
3. NSS Camps
4. Thamirabarani river cleaning process
5. Covid-19 vaccination camp
6. Charity for pandemic period.

File Description	Document
Any other relevant information	View Document
Details of activities that inculcate values; necessary to render students in to responsible citizens	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

- 1. The Code of Conduct is displayed on the website**

2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims.	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Our students are on a mission towards achieving better India. Irrespective of caste, religion and creed, they realize their social responsibilities towards sustainable growth. The institution celebrates Days of National Importance like Independence Day, Republic day, Science day and Voters day. Death and Birth Anniversaries of great personalities are celebrated meaningfully.

Independence Day and Republic Day celebration: Every year, we celebrate Independence day and Republic day functions with great enthusiasm and patriotism. Our Management, Principal, few faculty members and few students will give patriotic talks to pay tribute to the national leaders and to inculcate patriotism and social responsibility among the young minds. Cultural activities will also be conducted remarking the sacrifice of national leaders.

AyudhaPooja : Every year it is celebrated in our College. On this special day, all the laboratories, workshops, buses and offices are decorated. Pooja is done in all the departments and offices and sweets are distributed to all the faculty, students and staff.

Ramzan: It is celebrated in our College campus. The Muslim students undergo fasting and do daily prayer offerings in the campus.

Pongal:Pongal also called ‘Harvest Festival’ is a tribute to farmers, nature, cows and crops. Pongal is celebrated in our campus with enthusiasm. Pongal is prepared and distributed to all.

Christmas: The Christmas celebrations take place on our college campus. Christmas Manger scene huts are created by students in each department. On Christmas function day, Christmas cake is cut and distributed to all. Special prayers are offered.

National Voters day: Voters day is celebrated by organizing awareness events in the campus. The

students those are eligible to vote are gathered and the importance of voting is explained to them.

National Science day: Science day is celebrated every year in a grand manner. Special programs are organized for students. Mini project expo is organized and students are encouraged to present their innovative ideas as projects. Scientists from various domains are invited to motivate the students.

International Women's day: This day is organized and celebrated by women of the institution. Women achievers are invited and Chief Guest to encourage women of the institution, various events also conducted for women on that day.

Civil Services day: Civil services day is celebrated in our institutions by inviting Civil service persons to motivate our civil service aspirants. Regular activity training is provided to prepare our students for Civil services.

File Description	Document
Geotagged photographs of some of the events	View Document
Annual report of the celebrations and commemorative events for the last five years	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:

Title of the Practice: Activity Based Learning (ABL) – Learning by Doing

Activity Based Learning (ABL) is a major quality initiative introduced in Thamirabharani Engineering College. It is based on the pedagogical principle of learning through activities. The ABL initiative aimed, most importantly, changing the role of our teachers to that of facilitators. ABL is implemented in the eighth hour of all classes daily. Students in ABL classes use a variety of learning methods by conducting various activities such as puzzle Solving, Extempore, Newspaper reading, Group discussions, Quiz and so on.

Teaching-learning in ABL is meant to be Student-centered, our teachers act as facilitators and students work with groups and move from the teacher-supported group to the self-evaluation group. In ABL, each student monitors his or her own learning and gets support from peers.

Objectives:

TEC encouraged this method by having the following objectives:

- To observe the interaction of students

- To observe the voluntary participation of students
- To find out what the student knows or be able to do

Context:

In each activity, under ABL, the competencies are split into different parts or units called milestones that are developed into different activities. These milestones and activities are arranged in a logical sequence from simple to complex. Clusters of milestones are linked together into ladders. Each milestone has different steps of the learning processes represented by logos having six types of activities viz., introduction, practice, reinforcement, self-assessment or evaluation, remedial and enrichment activities. Qualitative Initiatives pointed to several non-academic outcomes associated with the ABL initiative. These included greater self-confidence, increased motivation and less fear of teachers and exams among students; improved student-teacher relations; better cooperation among students; increased teacher involvement; a greater focus on Student-centered practices.

Practice:

Mostly the classroom practices were highly teacher dominated and involved rare use of ABL method. Our college found out that great emphasis was placed on rote learning, and lecture mode was the common practice adopted by teachers who assumed that students did not know anything and needed to be taught everything by teachers. It was assumed that students learn at a uniform pace and achieve curricular competencies uniformly. It was also found that the existing classroom practices did not offer a range of opportunities to the learners as there was an implicit assumption that each student learnt in the same way.

There was a wide gap between teacher's expectations and student's learning. Also observed that when students were absent for a few days, there was no way for them to recover the loss of learning during the period of absence. There was no joyful learning and neither any scope for self, peer and group learning. Also the students were not exposed to modern ways of assessment. Hence, there was a need for an approach having learning processes that would offer scope for diverse learning styles, intelligences and abilities.

Evidence of Success:

Thamirabharani Engineering College (TEC) conducted Training programmes for the college Activity Committee Members later with their support to all the faculty members of our college. The Activity Committee Members share their experience through demonstrating ABL activities. Training programmes were conducted, based on specific content to enrich ABL activities and enhance the teacher's performance in implementing the ABL methodology.

Training was focused on conducting Group Discussions, solving Puzzles, Brainstorming, use of self-learning material and so on. Follow-up activities after training were provided through regular visits by the Activity Committee Members daily in the eighth hour. Our Principal, after the visits, organizes review meetings, and discusses records being maintained by the committee.

Thus TEC strongly believes that ABL provides rich and varied experiences to the students, thereby

building their knowledge, boosting creativity skills and increasing cognitive skills. In addition, the self-confidence of students is boosted as they explore both familiar and unfamiliar concepts in creative ways.

It is based on the pedagogical principle of learning through activities. The ABL initiative aimed, most importantly, changing the role of our teachers to that of facilitators. ABL is implemented in the eighth hour of all classes daily. Students in ABL classes use a variety of learning methods by conducting various activities such as puzzle Solving, Newspaper Reading, Quiz, and so on.

Institutional Best Practice 2:

Title of the Practice: Intervention clusters of 13 clubs facilitating Participatory Management by Students

Objective of the Practice:

The objective of the clubs is to provide an Eco-system to the students through skill development activities, to enrich their technical, communication, inter and intrapersonal skills resulting in their overall personality improvement.

The Context:

The Institution organizes several skill development activities and programmes in parallel to the academics and provides the semester wise schedule to the students in advance through event calendar. The institution has department wise clubs to enhance their academic skills in the core domain. Other clubs are actively involved in programmes centered on Self development, Society related activities, Youth Fitness awareness.

Students are given the responsibility to organize the events conducted by various clubs. These activities enrich our students to develop strong leadership, organizing, personality and interpersonal traits.

The Practice:

The activities of different clubs and associations of the institution focus on improving a variety of skills set of students. Technical skills are imparted through regular conduct of workshops and Certification courses on recent technology with the aid of faculty expertise, industry experts and laboratory facilities.

Technical oriented clubs such as Renewable energy club, Robotics, AI & IoT club, Safety club focus on professional development. Through MoUs workshops, seminars, webinars and internships are conducted to enrich the students. These activities makes the students prepared to face the interviews.

More importance is given on youth to focus on their mental and physical health. Routine fitness trainings, workshops, sports events, tournaments are conducted through the Yuva club, and Fit India club.

Initiatives to maintain an Eco friendly and pollution free clean environment/campus are initiated

through ECO and Swacch Bharath Club. Social responsibilities, Human values and ethics are instilled in the student's minds through the Rotaract club, Youth Red Cross and National Service Scheme Clubs

Designers club, Self-development club and Fine arts club focus on personality developments. Co-curricular and extra-curricular activities. The slogan for the above set of clubs is "For the students... by the students." It equips the students to face the challenges in planning, organizing and conducting activities apart from grooming their personality.

A good Communication is the base to face interviews and to excel in professional career. English proficiency club focus on imparting Soft Skills, Writing skills, Personality Development and Public Speaking.

The active participation of students in organizing symposiums and events at department and institutional level, Industrial Visit etc., develop their leadership traits. The external and internal faculty experts are identified and are utilized as resource persons for the skill development programmes. The feedback on these skill development programmes is regularly assessed and the activities are redefined whenever required. A statistical summary of the programmes offered for Learning by doing skill development given.

Evidence of Success:

Students gain core competencies such as technical skills, learning skills, communication skills, team building skills, problem solving skills and leadership skills. The College encourages the students to actively participate in competitions, symposiums etc., in the Intra and Inter-College level.

Problems Encountered and Resources Required:

Educating the students from rural backgrounds with poor communication skills proved to be a real challenge. But regular counseling, motivational talks and pep talks at regular intervals proved to be a blessing.

File Description	Document
Any other relevant information	View Document
Best practices in the Institutional web site	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:

Talented Students Scholarship (TSS) Scheme

The rural area comprising of Thatchanallur, Thalaiyuthu, Gangaikondan, Maanur, Devarkulam and its surroundings with people of economically backward setup and lack of awareness about the latest avenues in the modern education. The need of the community is to provide quality higher education at an affordable cost. To educate these students community from the economically backward community Kalaiarasi Educational Trust was formed. The Institution provides ample opportunities for those students by providing free education through Kalaiarasi Educational Trust.

The students who secure top 5 positions at school level in their higher secondary certificate examinations are given full scholarship. For those deserving students who miss out in the Top 5 are also given fee waiver in tuition fees and 50 % concession in hostel fees based on the recommendation of his/her Head master. This scholarship is entitled not only for First Graduate students but also for worthy non First Graduate students. TSS is provided to needy differently abled students too.

The admitted students are provided with an ambience that facilitates effective teaching and learning processes for the development of critical thinking, effective communication and creativity. Student centric methodologies such as Experiential Learning and Participative Learning coupled with the implementation of ICT tools in teaching have improved the cognitive levels of students' learning curve.

The Designers club, Self development club and English Proficiency clubs lend their helping hands in grooming the students' industry ready by providing avenues for total professional growth.

Through the Designer's club our institution projects the students' creativeness and critical thinking skills while pushing them to try a range of techniques and media. It makes the students question, rationally think and make choices, generate alternatives, work collaboratively and create their own solutions for problems. Regular competitions and contests for designing posters, animations, web pages, logo contests and video making are conducted. It also undertakes training programs and workshops in Photoshop, Corel draw and web designing. The main motto is to improve the students' creative skills by giving design problems.

The process of exchanging ideas, thoughts, knowledge and information such that the purpose or intention is fulfilled in the best possible manner is effective communication. Effective communication initiatives are done in our institution through the English Proficiency club. A trained student can convey his thoughts in any forum with clarity. Communication is the base for decision making. If the communicated information is incomplete or inappropriate it may lead to wrong decisions.

This conveying of a message effectively in an art and is developed after passionate continuous practice. Regular workshops, seminars, training and competitions are conducted as per the event calendar to groom the raw talents in hand to face the real world with competency bubbled with confidence. The main purpose of the English proficiency club is to promote enthusiasm among students for the English language with a friendly but serious way to approach a new language and to encourage students of this club to actively participate in all the competitions.

Self development does not occur overnight rather it is a continuous process. The Self development

club focuses on improving/developing the total professional and personality growth. Numerous good habits such as waking up early, reading books, organized activities, time management, honesty, integrity and scheduling based on priority are cultivated among the student community. Innovation, creativity and team building exercises form the core of the self development club.

Industry expectation about an aspirant is vibrant, attentive, fast learners, energetic individuals, ready to accept challenges coupled with a good academic background and good communication skills. Industries today make use of unique techniques during recruitment to make certain that those hired will meet its requirements. The Training & Placement Cell recognizes these techniques by interacting with the industry and prepares students for them. The uniqueness of our Training & Placement Cell is to ensure that the recruitment process is a successful journey for the students of TEC. It puts high emphasis on technical and non-technical pre-placement training, which will train students to face interviews and recruitment processes.

The main focus of the Training and Placement Cell is to train and equip the students to meet the industrial needs.

- To prepare students to face campus interviews through arranging training in aptitude, group discussions, technical and mock interviews by trainers.
- To encourage career guidance and employment opportunities by organizing guidance lectures by corporate personnel and most importantly by the immediately placed senior students.
- Students are motivated to increase their morale. Students are also informed and advised on the importance of maintaining good academic scores as these play a major role during recruitment.

As the Problem Solving Skills are the fundamental skill to crack the campus interviews, students are given training on Aptitude in which they learn and practice all sorts of problems. The industries' major expectation is the Communication Skills of students. Hence, they are given training which covers basic grammar, role plays, group discussions, debates, self introductions, mock HR interviews etc. Soft Skills training is given to all the students to make them matured and confident during their campus interviews and also creates a good impression to the interview panel.

To meet the specific objective of educating a student from a rural ground by providing high quality education and making them industry ready is not an easy task.

However, it is made possible by the generous contribution from the trust and scholarships from the government. The quality of teaching and learning process is enhanced by the adoption of information and communication tools. Further, the clubs provided a platform to improve their professional growth. The Placement readiness programmes of our institution equipped the students with industry readiness. The main obstacles faced by the student community are the lack of communication skills. This hurdle is overcome by the continuous motivation by the faculty and the English proficiency club initiatives. Thus, the Institution is able to transform a raw student into an industry ready graduate by providing a platform to enlighten their lives.

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

NAAC

5. CONCLUSION

Additional Information :

Monitoring of Strategic Plan

The implementation of strategic plan will be monitored by Principal along with quality initiative team members through periodic review. The section heads along with IQAC team will review the progress. The setting of quality initiatives and its implementation will be carried out by the IQAC. The IQAC will report the findings to the Governing Council. With the outcomes of IQAC report, the corrective measures will be deployed periodically. All these reports will be forwarded for further discussions and implementation by the Board of Trustees.

Concluding Remarks :

CONCLUSION

The Strategic Plan and Deployment Document is an effort for paving a pathway towards accomplishment of goals TEC dreams to achieve. The Strategic Plan and Deployment Document is a guiding framework which is a collective effort delivered by the process of participative brainstorming of stakeholders. Proper implementation of strategies with sustained teamwork over a period by a dynamic process will pave the way in attaining the goals. To maintain the continuous improvement over the years, the implementation and assessment of quality initiatives by the IQAC is crucial.