



YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution		ALAGAPPA CHETTIAR GOVERNMENT COLLEGE OF ENGINEERING AND TECHNOLOGY
• Name of the Head of the institution		Dr. P.K. PALANI
• Designation		Principal
• Does the institution function from its own campus?		Yes
• Phone No. of the Principal		04565224535
• Alternate phone No.		9843294100
• Mobile No. (Principal)		9843294100
• Registered e-mail ID (Principal)		accetprincipal@gmail.com
• Address		College Road, Karaikudi, Sivagangai district
• City/Town		KARAIKUDI
• State/UT		Tamil Nadu
• Pin Code		630003
2.Institutional status		
• Autonomous Status (Provide the date of conferment of Autonomy)		08/02/2011
• Type of Institution		Co-education
• Location		Rural

• Financial Status	Grants-in aid				
• Name of the IQAC Co-ordinator/Director	Dr .K.RAMANATHAN				
• Phone No.	9994607024				
• Mobile No:	9994607024				
• IQAC e-mail ID	acgcetiqac@gmail.com				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://drive.google.com/file/d/1201zVKTDFKZxS1CxQZyl5K5sAuhcJIoD/view				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://drive.google.com/file/d/1B-E9F8t25FMr1SuzSkFzXh6XmtXTC0ja/view				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B++	2.78	2020	11/03/2020	10/03/2025
6.Date of Establishment of IQAC			15/04/2019		
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Institution	TEQIP-III	National Project Implementation Unit, Govt. of India	01/01/2016	70000000
Mechanical Engineering	Centre of Excellence	Govt. of Tamilnadu	26/07/2019	20000000
Institution	QIP	Govt. of India	23/10/2016	309119
Faculty	AICTE RPS	AICTE	27/01/2022	1450300

8. Provide details regarding the composition of the IQAC:

<ul style="list-style-type: none"> Upload the latest notification regarding the composition of the IQAC by the HEI 	View File	
---	---------------------------	--

9. No. of IQAC meetings held during the year

4

<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes
--	-----

<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
--	------------------	--

10. Did IQAC receive funding from any funding agency to support its activities during the year?

No

<ul style="list-style-type: none"> If yes, mention the amount 	
--	--

11. Significant contributions made by IQAC during the current year (maximum five bullets)

- Helped and guided Civil Engineering, Mechanical Engineering and Electrical and Electronics Engineering department to get NBA accreditation by conducting a programme titled "Preparedness for NBA visit".
- Conducted an awareness programme titled "Preparedness for

NBA accreditation of ECE department" on 06-01-2022. • Conducted a seminar about "AICTE 360 degree feedback system" for the benefit of students on 29-01-2022. • Conducted a Seminar about "Government e-Market Place (GeM)" on 07-02-2022. • Organized a seminar about "360 Degree Feedback" for the benefit faculty members on 27.12.2021.

12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Establishing a common Research Center with alumni support comprising of all hi-tech equipments to encourage multidisciplinary research culture.	A common Research Center was established with the support of 1965 alumnus Thiru. Periakaruppan tcosting Rs.74 Lakhs.
Providing Intensive free coaching classes for GRE/CAT/GMAT/TOEFL	Intensive free coaching classes for GRE/CAT/GMAT/TOEFL was arranged and provided to final year students with the support of state government
Offering Free Certificate courses in foreign languages like German, French and Japanese	Free Certificate courses in foreign languages like German, French and Japanese are arranged and offered through the skill development initiative of state government titled 'Naan Mudhalvan
Conducting National and International Conferences in the thrust field of engineering and technology	National level conferences were conducted in thrust areas pertaining to engineering programmes offered in the college
Establishing an Incubation Build club in association with IITM Research Park, Chennai	Incubation Build club was established in association with IITM Research Park, Chennai and is functioning in
Creating a campus' coding culture TECH-PRODIGIES - Coder's club	Coder's club was established by CSE department aiming to spread the coding culture among the students of Computer Science and Engineering department.

13. Was the AQAR placed before the statutory body?	No				
<ul style="list-style-type: none"> Name of the statutory body 					
<table border="1"> <tr> <td>Name of the statutory body</td> <td>Date of meeting(s)</td> </tr> <tr> <td>Nil</td> <td>Nil</td> </tr> </table>		Name of the statutory body	Date of meeting(s)	Nil	Nil
Name of the statutory body	Date of meeting(s)				
Nil	Nil				
14. Was the institutional data submitted to AISHE ?	Yes				
<ul style="list-style-type: none"> Year 					
<table border="1"> <tr> <td>Year</td> <td>Date of Submission</td> </tr> <tr> <td>2020-2021</td> <td>11/02/2022</td> </tr> </table>		Year	Date of Submission	2020-2021	11/02/2022
Year	Date of Submission				
2020-2021	11/02/2022				
15. Multidisciplinary / interdisciplinary					
<p>The institution is implementing the concept of Multidisciplinary / interdisciplinary courses in all the engineering programmes offered by the institution. These Multidisciplinary / interdisciplinary courses are offered in the form of "open elective" and this concept is made mandatory in the curriculum itself. Student of an engineering programme should select elective paper from other engineering programme so that they will gain the Multidisciplinary / interdisciplinary knowledge.</p>					
16. Academic bank of credits (ABC):					
<p>As per the instructions received from the University Grants Commission/MHRD, our institute has been registered in the name of Alagappa Chettiar Government College of Engineering and Technology, Karaikudi-630003, Tamilnadu for using NAD Depository services provided by NSDL Database Management Limited. The Principal / Head of the Institution is the Nodal officer and Dr S.R. Sumathy, Associate Professor of Civil Engineering has been nominated as an admin/Single Point of Contact (SPOC) for NAD.</p> <p>Moreover, now our institute has been registered in the Academic Bank of Credits (ABC) platform for uploading the data of credits earned by the students. ABC can be considered as an authentic reference to check the credit record of any student at any given point of time.</p>					

Thus, the concept of ABC is a fuel to boost the efficiency of faculty and help the students embrace a multi-disciplinary educational approach. The idea is to make students "skilful professionals" which helps their overall growth.

Regarding the Implementation of Academic Bank of Credits in our institution, currently, all the students successfully created ABC Id and digilocker account themselves. Also updated the student details like name as in Aadhar card, Aadhar number, Parent's name and ABC Id etc., in our database. Continuation of that, mark sheets from first semester to current semester of all the students (both UG and PG), who have studied during the academic year 2022-2023 were uploaded through ABC platform. Still now, totally 5311 mark sheets were issued to the students through Digilocker.

17.Skill development:

Skills and knowledge are the driving forces of economic growth and social development that moves the country progressively towards becoming a knowledge economy. The skill development is an important aspect that enables the graduates to achieve the desired goals and objectives, and also enables them to put into practice various tasks and functions in a well organized manner and maintains effective terms and relationships with other individuals. This institute, put emphasis upon the development of skills that the graduates should primarily focus, with the main objective of enriching their career prospects and honing the skills and competencies of graduates, particularly in generating productive outcomes. The different types of skills focused that are essential for the engineering graduates are, communication skills, literacy, numeracy skills, technical skills, cognitive skills, leadership skills, thinking skills, time management skills, conflict resolution skills, managerial skills and personality development skills.

This institute has graduates residing in rural area and they belong to deprived, marginalized and socio-economically backward sections of the society. The advent of industrialization, globalization and emergence of technologies, demands higher and better levels of skills and acquires more significance to adjust to the challenges and opportunities of globalization in more efficacious manner. In the development of skills, the institute is primarily focusing upon enhancing their knowledge and understanding in terms of various aspects and to generate awareness in terms of implementation of modern, scientific and innovative methods in putting into operation various tasks and functions. The following activities are focused by the institute for enhancing the Technical and other life skill of

the graduates

Comprehensive Viva - Assessing the understanding level of technical knowledge acquired by graduates

Symposium and Technical Seminar - Enhance the presentation skill and team work

Hackathon - Enhance the ability to find the solution to the industry problem statements

Communication Skill Lab - improving the Verbal and written communication skills

Skill development in Thrust Area - Enhancing the skills in the thrust areas like Data security, Smart Grid, and IoT

NASSCOM Assessment Test - Asses the aptitude and understanding of foundation

THIRAN Project contest - Enhance the skill of implementing the technical knowledge acquired for the given problem statement

Aptitude Classes - Enhancing the critical thinking and numerical ability of the graduates

Internship training - Internships are regarded as one the supreme ways of generating awareness among graduates in terms of practical job experience. In other words, the students are able to learn how to make use of knowledge and skills in an effective manner to get engaged in employment opportunities

Projects and Mini Projects - Develop good leadership skills such as promoting teamwork, implementation of peaceful conflict resolution methods, encouraging economic growth, providing solutions to the problems and challenges experienced by the workforce

GATE Training - Enhance the understanding of technical knowledge

X'PRESS and Sangamam Magazines - The basic literacy skills like, reading, writing and numeracy is indispensable for the graduates. It is apparent that when the graduates will be able to read, write and solve numerical problems, they will be able to carry out their job duties in an appropriate manner and generate the desired outcomes

NSS, Rotaract Club, LEO Club - These include management of household

responsibilities, participation in extra-curricular and creative activities, participation in social, cultural, and economic activities and so forth. Implementation of proper time management skills enables them to assign priorities.

The college is actively implementing the skill development initiative of Government of Tamilnadu in the name of 'Naan Mudhalvan'. Under this scheme, skill development programs are offered for the benefit of third and final B.E students and they are permitted to earn maximum six credits through the program.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

To promote and spread the awareness about the Indian culture particularly about the Tamil culture, a separate association called "Tamilmandram" is functioning in the college. Through this association, various activities namely "Agazh" and " Vidiyal" will be organized in a year. Apart from that to promote the concept of celebrating Pongal festival without any religious barrier, a programme titled "Samathuva Pongal" will also be celebrated with true spirit. Additionally to exhibit the writing skills of students in the regional language, a magazine titled "Sangamam" is published in the year. Even though, the mode of teaching is "English", the students are permitted to ask questions and their doubts will be cleared through the regional language "Tamil".

In order to disseminate the tamil culture, courses such as "Scientific Thoughts in Tamil" and "Heritage of Tamil " are incorporated in the U.G curriculum having one credit and are offered in first and second semester respectively.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

Alagappa Chettiar Government College of Engineering and Technology, Karaikudi is a state Government institution affiliated to Anna University, Chennai. The institute, after getting autonomous status from UGC in 2009, designed the curriculum and syllabi through its own Board of Studies (BOS) and Academic Council (AC). All the programmes offered by the Institution adopt Choice Based Credit System (CBCS) from the academic year 2015-2016 onwards. The College is fully practicing Outcome Based Education (OBE) and student centric learning from the academic year 2019-2020 under Regulations 2019. The institution as well as each department have elaborately prepared its vision and mission statements. Each programme describes its Programme Specific Outcomes along with the Programme Outcomes. Our college aims to produce qualified engineering professionals with

moral values and technical skills to sustain jobs globally.

For effective implementation of OBE in our college, the progress of graduates is measured by four parameters namely Program Educational Objectives (PEOs), Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs). COs specify what a student can do after successfully completing a course. Each course has specific Course Outcomes. The keywords used to define COs are based on revised Bloom's Taxonomy. All the courses in the curriculum covered all the POs/PSOs. For a course, we have mapped the COs to POs through the CO-PO matrix and to PSOs through the CO-PSO matrix in Course. POs represent fairly high level generic goals that cannot be directly assessed. Hence, POs assessment was done through the two-step process of (1) identifying Competencies and (2) Performance Indicators (PI).

Course outcomes of all courses are assessed with the help of Direct Assessment (Internal assessment tests, Assignments, Seminars, Project work, Practical/Labs, End Semester Examinations) and Indirect Assessment (Course Exit Survey) tools and attainment level is evaluated based on set attainment rubrics. At the end of each program, the PO/PSO assessment is done from the CO attainment of all curriculum components. Assessment of achievement of the program educational objectives (PEOs) is done by indirect measurements. Employer survey, Alumni survey, Placement records and higher education records are used to measure the Program Educational Objectives (PEOs).

A scoring guide (Rubrics) is used to examine how well students have met CO or PO rather than how well they perform compared to the peers. Separate rubrics are followed for theory, practical, project, etc. According to the revised version of Bloom's Taxonomy, six levels of cognitive learning (remembering, understanding, applying, analysing, evaluating, and creating) are used to test higher level skills of students such as ability to apply knowledge, solve complex engineering problems, analyses, synthesize and design. Normally the first four learning levels; remembering, understanding, applying and analyzing are assessed in the internal assessment test and End Semester Examinations. Analysis, evaluation and creation are assessed in projects, mini projects, internship experience, etc.

All the faculty members play different roles such as instructor, trainer, facilitator, mentor, based on the outcomes targeted. In order to achieve our goals and objectives, the institution has developed additional inputs in the syllabi to face the current technical issues in competitive part. Different strategies for slow

learners, average learners and advanced learners are followed. Various workshops and seminars to students are regularly conducted to cover the topics beyond syllabus in theory and practical subjects with subject experts. In addition to this, our curriculum contains soft skills enhancement training, Implant training, Training in computer based subjects, Professional Ethics and Human values, Total quality managements, etc. The Placement and Training cell of the college frequently interacts with the HR and technical managers of companies and collects immediate information about the demands and expectations of the corporate sector regarding the skills of students in order to promote employability.

20.Distance education/online education:

The concept of distance education/ online education is encouraged and practised in the institution. A student can choose an online programme offered in national level platforms such as NPTEL, SWAYAM etc in place of a professional elective course and open elective course. In this regard, the department advisory committee will analyse and recommend to the Controller of Examinations of our college so that the student can earn the required credits through distance education/ online education method and these students are exempted from earning the equivalent credits through their regular class works.

Extended Profile

1.Programme

1.1 11

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 1758

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 441

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

1732

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

428

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

115

Number of full-time teachers during the year:

Extended Profile	
1.Programme	
1.1 Number of programmes offered during the year:	11
File Description	Documents
Institutional Data in Prescribed Format	View File
2.Student	
2.1 Total number of students during the year:	1758
File Description	Documents
Institutional data in Prescribed format	View File
2.2 Number of outgoing / final year students during the year:	441
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	1732
File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	428
File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	115
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	140
Number of sanctioned posts for the year:	
4.Institution	
4.1	364
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	53
Total number of Classrooms and Seminar halls	
4.3	662
Total number of computers on campus for academic purposes	
4.4	1076.26882
Total expenditure, excluding salary, during the year (INR in Lakhs):	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The institute has a systematic process for curriculum development, revision and implementation. The curriculum and syllabus for each program are judiciously designed with all the necessary basics of current technologies and opportunities available at local/regional/global levels. Each department has an own Board of Studies (BOS) consisting of internal faculty and external subject experts who design the syllabus of each course after extensive

discussions. The curriculum and syllabus designed/recommended by each BOS is then placed for the approval of the Academic Council (AC). Curricula and syllabi are generally designed as per AICTE model syllabus, guidelines of affiliating university, and vision and mission of the institution. Every programme presents programme outcomes, programme specific outcomes, and carries course outcomes of each course. To promote strong and high-quality technical education, all U.G. Programs include Foundation courses, professional core, professional Electives, open Electives, employability enhancement courses, online courses, self-study courses and skill development courses in the curriculum. Also, students are encouraged to undertake industrial training/internship, as a result, the student can enhance their knowledge base in various fields. Courses on renewable energy and environmental studies are also offered to sensitize students to global health. All the five UG and six PG programmes offered by the Institution adopt Choice Based Credit System (CBCS) and practising Outcome Based Education (OBE).

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

5

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

356

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

98

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

11

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

In order to integrate cross-cutting issues related to gender,

environment and sustainability, human values and professional ethics, the Institute has developed additional inputs in the curriculum to address general competencies such as professional skills / socio-ethical values, human values. The institution is committed to providing a harmonious environment where students, teaching, non-teaching and technical staff can work together in an environment free from violence, harassment, exploitation and intimidation. This includes all forms of gender-based violence, sexual harassment, and gender-based discrimination. There is an Internal Complaints Committee or Anti-Sexual Harassment Unit to effectively enforce fundamental human rights, ensure gender equality and combat sexual harassment and abuse, particularly sexual harassment in the workplace. Courses in professional ethics, human values, and environmental studies are embedded in the curriculum of all programmes. The institution has signed several MOU with various industries/institutes. As an integral part of student engagement in social activities during their programme of study, institute also mandates all the students to enrol as NSS/NCC/YRC/ROTRACT Volunteers. The College is enthusiastic on maintaining the green environmental condition by planting new trees and maintaining trees in college campus by NSS. The students organize different campaign to keep the city clean and hygienic and promote tree plantation in the city. Community developmental activities like Blood donation camp, Yoga, etc are also regularly organised by NSS.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

3

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

108

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

264

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni **A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.accetedu.in/wp-content/uploads/2023/07/Feed-back-and-action-taken-report-2021-22.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.accetedu.in/wp-content/uploads/2023/07/Feed-back-and-action-taken-report-2021-22.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

404

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

240

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The institution organizes several programs for both advanced and slow learners.

For slow learners, the institution organizes three types of programs to enhance their learning skill.

- **Bridge Courses** - This course offers a complete revision of the basics necessary for engineering students. It helps the students to grasp and understand basics in Physics, Mathematics, Chemistry and for an effective communication in English. The course is provided for the first year B.E degree students of all branches as per the course syllabi provided by Anna University, Chennai.
- **Weak Students Remedial Class** - Remedial classes are conducted for students who are identified as slow learners from the first internal evaluation test. Tutorial classes with proper schedule are conducted for the students in the corresponding subjects without affecting the regular classes.
- **Induction Program** - This program is organized to bring out the creative skills of the students. External and Internal subject experts are invited to deliver special lectures.

For advanced learners:

Fast Track Courses - Fast Track courses are offered for fast learning students who wish to complete higher semester theory papers at the earlier semesters so as to enable them to go for internship programs in industries.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/06/2021	1758	115

File Description	Documents
Upload any additional information	No File Uploaded

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:

Curriculum, Syllabus along with Course Objectives and expected course outcomes for each course and list of text books and reference books are provided to the students in advance. Though black board is the basic teaching tool, many tools like LCD Projectors, Camera, Internet, Audio visual System are also used. Virtual class Rooms with interactive Board, Internet connectivity, camera, Projector, Multimedia system are available in all the departments and also in the Library.

Experiential Learning: Mini Project with two credits, Project with 10 Credits, soft skills development courses with 1 credit, Technical Seminar with 1 credit are introduced so that students learn through experience. Students are encouraged to undertake one credit MOOC courses and Registration fees paid by the students for examinations under MOOC courses are reimbursed. Industrial visits, inplant trainings, internships are taken by the students which enhance their experiential learning.

Participative Learning: In addition to ISTE students' chapter and IEEE Student Branch, each department has its own technical association.

Teaching Learning Centre: TLC is formed in the institution to identify and rectify challenges in Teaching Learning Process.

Tutorial Class: The Faculty is assisted by one or two supporting Faculty so that the Teacher Student Ratio is reduced in the tutorial class and the students' learning is monitored individually.

Guest Lectures, Symposium and Workshops: Students are encouraged to participate in various symposiums within and outside the campus to gain knowledge beyond curriculum. Technical Mini Project contest is conducted annually for the students so as to induce interest in learning among students.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Today, it is essential for the students to learn the latest technologies in order to be corporate ready. When ICT is integrated into lessons, students become more engaged in their work. This is because technology provides different opportunities to make it more fun and enjoyable in terms of teaching the same things in different ways. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.

The following tools are used by the Institute:

There are 8 ICT enabled classroom and 12 smart classrooms available in ACGCET campus. The laboratories Seminar Halls, Auditorium and conference Room are well equipped with ICT facilities.

The library also provides access to computers and online journals freely available in public domain and also to journals subscribed on the advice of faculty and facilitates downloads.

Internet and Wi-Fi facility is made available to all over the Campus at free of charge to encourage learning.

Google classroom is used to manage and post course related information- learning material, quizzes, lab submissions and

evaluations, assignments, etc.

PowerPoint presentations- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors.

Video Conferencing- Students are counseled with the help of Zoom / Google meet applications.

Workshops- Teachers use various ICT tools for conducting workshops on latest methods.

Around 115faculties are using ICT techniques to optimize the delivery of education.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://drive.google.com/drive/folders/1jDa7hVkvzBcSLTLKHNDXQcl654i_cke3?usp=sharing
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

115

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic Calendar is prepared at the beginning of every Academic Year in the HODs meeting in consent with the Principal and Controller of Examinations and is circulated to all faculty and students. Academic Calendar provides the schedule of Academic Events of the institution for both Odd and Even Semesters in a year.

Academic Events Schedule includes the following academic information:

1. Commencement of Classes
2. Date of Collection of Exam fees
3. Internal Tests Schedule - Three Tests per semester
4. Date of Submission of Attendance Particulars to CoE
5. Date of Issue of Hall Tickets
6. Date of submission of Internal Marks
7. Date of Issue of Hall Ticket
8. Date of Commencement of Practical Examinations
9. Date of Commencement of Theory Examinations
10. Date of Reopening of Next Semester / Year

For each subject, three internal evaluation tests are conducted in each semester. Three Assignments are given in each semester.

Record of class work is maintained by the Faculty Members for each Subject. This record of Class Work is Verified by the Head of the Institution every Month. Course plan for each course is prepared by the faculty member at the beginning of each semester that is approved by the head of the department.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

115

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

51

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1127

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

46

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

326

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

1. Every year, academic schedule is released with the approval of Academic Council.
2. Examination activities start with student's registration.
3. Continuous assessment: - Centralized continuous assessment is conducted to ensure transparency in the award of internal marks. Based on registration, list of students for the particular course is prepared and uploaded in the COE software. The course coordinator can upload test marks, assessment marks and attendance of students for each course. After completion of three tests, internal mark will be automatically calculated by COE software. Internal marks scored by the student is published and made known to students.
4. Semester End Examination: After the completion of Theory and Practical examination, results are published within a month of completion of last examination. For theory examination, evaluation sheet is attached in the first page of main answer sheet.
5. COE office has introduced "Transparency" in evaluation system. After the publication of results, students will be allowed to cross check the valuation of their respective answer scripts in the presence of Faculty Advisor and Course Coordinator. If they recommend, the student can apply for revaluation within 2 weeks from the date of result publication.
6. Revaluation results will be published within 1 week after considering all such applications.
7. Grade sheet will be issued within one month after the publication of revaluation results.
8. COE office maintains its own website www.accet.co.in for secured and authenticated communication to the stake holders. This website is also linked to the college website.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.accet.co.in/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Response: Yes.

The defined mandatory Graduate Attributes (GAs) have been taken from the NBA guidelines. Based on the guidelines and inputs received from students, faculty members and alumni, the Department Advisory Board (DAB) prepares the Program Outcomes (PO), Program Educational Objectives (PEO), Program Specific Outcomes (PSO). Later, these POs, PEOs and PSOs are put up in the Board of Studies (BOS) for approval.

Program Outcomes (PO), Program Educational Objectives (PEO), Program Specific Outcomes (PSO) and Course Outcomes (CO) for all courses are printed in Regulation/Curriculum/Syllabus book and the copies of the same are distributed among the faculties and students of concerned departments. Moreover, the above details are made available in the CoE website under corresponding departments. The PO, PEO and PSO are disseminated in classroom, seminar hall, notice boards and laboratories.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://www.accet.co.in/

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The college evaluates the course learning outcomes in the following levels.

1.Course level: In this level, three series tests and assignments

with overall weightage of 30 % is used. It is ensured that the three series tests and assignments cover the entire course objectives of the particular subject.

2.End semester examination: End semester theory and practical examinations with weightage of 70 % is used. It is ensured that the theory and practical examinations satisfy the course objectives of the particular subject.

3.The Program Outcomes (PO) and Program Specific Outcomes (PSO) are evaluated by a committee chaired by the Principal, Head of the department, senior faculty members, industry representative and stake holders. This committee collect data related to students learning. Based on this data, they determine whether the students have achieved the PO and PSO in all the subjects. Further, they analyse how to improve the student learning activity for the respective subject. This committee ensures that the students understand the objectives, outcomes and effectiveness of learning.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

482

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution

may design its own questionnaire). Results and details need to be provided as a weblink

https://docs.google.com/spreadsheets/d/1pRaDCZIym2TdvJAJmSZSm4LWv41fmEmhTh_qygrwF-g/edit#gid=710607545

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Alagappa Chettiat Government college of Engineering and Technology is offering research through its six departments (Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science & Engineering and Science and Humanities). All these departments are recognized research centers of Anna University. All research scholars either pursuing through regular or part-time mode should be admitted through Anna University. Our institution encourages research through integrating the research with the academic program and enhances research facilities in the departments and establish center of excellence in emerging fields.

ACGCET is a recognized QIP Centre (Minor) from the academic year 2016-17. Three departments have been recognized (Civil Engineering, Mechanical Engineering and Electrical and Electronics Engineering) for the admission of regular Ph.D scholars with AICTES Scholarships. The main objective of QIP is providing opportunities to faculty members of the degree-level engineering institutions to improve their qualification by offering admissions to Master's and Ph.D. degree Programme.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	No File Uploaded
Provide URL of policy document on promotion of research uploaded on the website	https://www.accetedu.in/research-academic/
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

NIL

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

4

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1450300

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

31

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	No File Uploaded
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.aicte-india.org/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institution established an Incubation centre to facilitate the students to develop new products within the campus. Necessary funding, guidance and technical supports are given to the students

to enhance the research activity towards learning. THIRAN is one of the platforms to perform innovative projects funded by the ALUMNI Association of our Institution.

Objectives

1. To facilitate resources to do multi disciplinary research.
2. To create awareness about current trends, technologies and new innovations among engineering students.
3. Motivating graduates to collaborate with various organizations for funding as well as knowledge sharing.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

35

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

C. Any 2 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	No File Uploaded
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

84

File Description	Documents
URL to the research page on HEI website	http://www.accetedu.in/research-academic/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

51

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

14

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

1733

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

53

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

12.98

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Through extension activities such as NSS and Unnat Bharat Abhiyan, students have become aware of numerous social issues. By organizing such programs, they have had the opportunity to cultivate their leadership qualities. Working in the field has helped students acquire a diverse range of skills, including ethical communication with local communities and stakeholders. Furthermore, students have utilized their scientific knowledge to devise technical solutions for various problems through extension activities. Participation in extension activities like NSS and Unnat Bharat Abhiyan has exposed students to a wide range of social issues and helped them become more socially aware.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.accetedu.in/nsss/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

3

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

2

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1950

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

310

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

5

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

The college has the latest IT infrastructure to support the teaching-learning process. In each department, classrooms are available with a computer, LCD Projector and internet connectivity for enhancing teaching-learning process. Our college has a fully automated library which houses sufficient number of books of all disciplines, collection of rare books, manuscripts, special reports and large number of e- journals and e- books. Learning resources like e-journals, e-books, databases like Scopus, Web of science are available to faculty and students and can be accessed 24x7. Faculty member is encouraged to develop e- content for MOOC, NPTEL videos, EDUSAT, DELNET etc. Computer labs in all departments have software like MS Office, TOEFL, STAAD Pro Vi8, ETAP, SAP2000, AutoCAD, Pneumatics Robox, Atmel Studio, PSCAD, MATLAB, LabVIEW, dSPACE, HFSS, OPTIWAVE, CST Microwave studio, CADENCE, JAVA, Visual C++ MSSQL etc. In order to prepare teaching and learning

materials, cabins of the faculty members are equipped with internet enabled computing facilities with printers. Demonstrative models and video lectures are used in the teaching learning process using the LAN and Wi-Fi facilities available in the campus. College maintains adequate student computer ratio with over 100 Mbps bandwidth for internet connection

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.accedu.in/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The college encourages and offers facilities to the students to participate in outdoor and indoor games. The college campus has one badminton court, two ball badminton courts, one basketball concrete court, one cricket pitch, one football ground, one hockey ground, three tennis courts, one table tennis court, two volleyball courts, one kho-kho court, one handball ground, a open stadium, a gym room with 21 stations and a yoga meditation hall. The college has a separate tennis club which conducts summer coaching camps for students. Open ground is available in all hostels to facilitate the students to play during their leisure time.

Sports day is conducted annually and the students of all courses participate and show their talents in various sports and games. Budgetary provision is available to accommodate the expenditures related to the sports and games activities in the college. State level sports competitions are also conducted in this college and many students have participated and won medals.

During the even semester of every year, a colourful cultural function is conducted at the open-air theatre of the college to the students.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	http://www.accetedu.in/physical-education/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

53

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

938.22103

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

Autolib software is a fully integrated, versatile, multi-user library automation software used here. students can access the library with this software. It is designed to automate various activities of Libraries in College. This module allows to create and maintain database of digital library resources such as e-books, e-journals, audio/ video clippings, images, pictures, photos, animations, web resources, computer files, etc. It also allows users to search and retrieve data. year of automation is

29.06.2016.Easy to use /data entry made simple. Handles thousands of records more efficiently. Customisable data entry screen. Multimedia interface.Simple and fast counter transactions. Efficient circulation management system. Book ordering and serial control made simple.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.accedu.in/library/

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	No File Uploaded

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

1,93,080

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year above 200

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The college has the latest IT infrastructure to support the teaching-learning process. In each department, classrooms are available with a computer, LCD Projector and internet connectivity for enhancing teaching-learning process. Our college has a fully automated library which houses sufficient number of books of all disciplines, collection of rare books, manuscripts, special reports and large number of e- journals and e- books. Learning resources like e-journals, e-books, databases like Scopus, Web of science are available to faculty and students and can be accessed 24x7. Faculty member is encouraged to develop e- content for MOOC, NPTEL videos, EDUSAT, DELNET etc. Computer labs in all departments have software like MS Office, TOEFL, STAAD Pro V8, ETAP, SAP2000, AutoCAD, Pneumatics Robox, Atmel Studio, PSCAD, MATLAB, LabVIEW, dSPACE, HFSS, OPTIWAVE, CST Microwave studio, CADENCE, JAVA, Visual C++ MSSQL etc. In order to prepare teaching and learning materials, cabins of the faculty members are equipped with internet enabled computing facilities with printers. Demonstrative models and video lectures are used in the teaching learning process using the LAN and Wi-Fi facilities available in the campus. College maintains adequate student computer ratio with over 100 Mbps bandwidth for internet connection.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2262	662

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus **A. 50 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	No File Uploaded
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: **B. Any three of the above**
Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/drive/folders/1hBPruSs551-eGLJalVhCaA9_Szl2lfgf?usp=sharing
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

138.04779

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

Yes .

- Our college has a dedicated Estate Office for maintaining the Cleanliness of buildings, class-rooms, Rest rooms, lawns and laboratories roads, water supply, security and other amenities and facilities.
- The construction and maintenance of buildings in the college and hostels are carried out by PWD Technical Education (civil wing).
- The electrical maintenance of college buildings are carried out by PWD Technical Education (Electrical wing).
- The Estate office maintaining the security of the campus properties using the security staffs and watchmen.
- The campus was well maintained by basic workers and also with the help of NSS student's volunteer's team. Drinking water facilities and rest rooms are provided in each building

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1405

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

5

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

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://www.accetedu.in
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1231

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for

A. All of the above

submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

253

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

8

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State

government examinations) during the year

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

0

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Each department has its association which organizes seminars, symposia, national and international conferences on technical topics.

Muthamizh mandram-It intends to enhance and develop the Tamil language among the students. Pongal is celebrated in the college every year in a grand manner by this club.

National Service Scheme (NSS) - We have 3 NSS units with 300 volunteers.

Youth Red Cross (YRC) -It is providing relief in times of disasters, emergencies and promotes health care of the vulnerable peoples.

National Cadet Corps - Students get trained with basic military activities.

Leo club - sponsored by Lions Club of Karaikudi cosmos which inculcates leadership, experience and opportunity.

Rotaract club is the youth wing club of Rotary Club which serves the community.

Sangamam is a magazine released by the college periodically. Here the students are encouraged to write essay, poem etc., exclusively in Tamil.

The professional bodies such as ISTE, SAE, IEI operate for the development of students.

Each class has a class committee which meets once in a month to represent the difficulties and other requirements of the students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

5.3.3 - Number of sports and cultural events / competitions organised by the institution

7

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alagappa Chettiar Government College of Engineering and Technology Old Boys Association - ACCETOBA was started as a society in the year 1972 and was registered on 02-09-1973 (Regd. Society No. 37 of 1972) with the office at Alagappa Chettiar Government College Engineering and Technology, Karaikudi. Any student graduating from Alagappa Chettiar Government College of Engineering and Technology is eligible to be a life member of the association by paying a one-time fee (Rs.1000/-). The association helps and supports the alumni batches to organize and celebrate their Silver Jubilee of

graduation in the institution and from 2006 the Golden Jubilee batches are also celebrating their function every year in the campus.

The association gives cash awards to rank holders in the graduation day and best sportsmen every year during the sports day. The 1958 batch alumni have donated three lakh rupees from which an 8 gm Gold medal is given to the best outgoing Student every year from 2009. Alumni who are celebrating their Silver Jubilee, as a token of their gratitude to the institution, construct and donate hostel blocks, auditorium, computer centre, sanitary facilities, RO water plant and generators. Soft skill training is given to the students of third year B.E. for the past 5 years by the 1987 batch alumni in order to enhance the employability of the students. Also the alumni are organizing campus placements, seminars, career guidance programs and help in arranging for internships and industrial visits to reputed industries.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://alumni.accetosa.org/

5.4.2 - Alumni’s financial contribution during the year **A. ? 15 Lakhs**

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The college has qualified and competent administrators at various levels to materialize the vision and mission. The college is headed by the Principal supported by Vice-Principal, Head of the Department, Controller of Examinations, Faculty members, technical staff, administrative staff, support staff and sanitation workers. The leadership ensures the compliance of academic and administrative works through regular checks, meetings and audits.

Departmental resources are updated by purchase of instruments, equipment, machinery and furniture with financial assistance from Government of Tamil Nadu, TEQIP and Alumni. Teaching faculty, non-teaching staff and students are given training through TEQIP and AICTE sponsored courses. Soft skills training are made mandatory by including it in the curriculum for third year students funded and administered by the Alumni. Sense of social responsibility and awareness is created in the minds of the students through NSS, NCC, YRC, Rotract etc.

The administrative and academic activities are carried out with the planning and approval from the Board of Governors (BOG). BOG of our college is constituted by the Government of Tamil Nadu as per the UGC guidelines. It is headed by an eminent industrialist with adequate representation from other stakeholders also. It meets at least once in six months or as required.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://drive.google.com/file/d/1SO-DZeutinghQ8xJJI_khEHq6VkHz_Oh/view

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Our college has decentralized governance and it manages the college by roping in the entire faculty members in the distribution and deployment of power. The Principal, the head of the institution, represents the Government is given financial powers. Likewise, the Heads of the departments are delegated full academic autonomy and financial autonomy to the tune of Rs.5000. Further, Head of the institution is supported by HODs and various committees in various academic and administrative functioning. Moreover, teachers especially faculty advisors are given freedom to take decisions in concurrence with the HODs related to students plea for leave and other permissions. At the same time, major decisions with regard to students and other institutional academic and financial issues are taken by the Principal after discussions with the HODs and respective committees.

Various committees are formed with faculty and staff to monitor the progress and take necessary action for the completion of work. The committees available at present are:

1. Board of Governors
2. Academic Council
3. Board of Studies
4. Programme Evaluation committee
5. Department/Academic Advisory Board
6. Autonomous Finance committee
7. Finance & Accounts committee
8. Building & Works committee
9. Purchase committee
10. Disciplinary committee
11. Institutional development committee
12. Student affairs committee
13. Library committee
14. Grievance committee
15. Woman harassment prevention committee
16. Anti ragging committee

These committees meet when the situation warrants and submit their reports to the Principal. After consulting with the BOG, the Principal takes necessary steps to solve the issues reported by the committees.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://www.accetedu.in/committee-cell/ , https://www.accetedu.in/student-grievance/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The strategic plan is focused on an organizational management activity that has been used to set priorities, focus energy and resources, strengthen operations to ensure that the employees and other stakeholders are working towards a common goal. Strategic plan has been used as an important tool for guiding the day to day decisions towards the progress of the institute and also for evaluating the changes in the approaches when heading forward through assistance from various stakeholders, external agencies like NBA, NAAC, NPIU, NIRF, IIC & ARIIA.

Academic excellence is achieved using technology-based teaching learning process and by continuous faculty engagement with effective utilization of resources. Strong and flexible curriculum is provided to promote creativity, problem solving and industry-oriented courses in line with OBE. Students are encouraged to earn at least 10% of their degree course credits through online platform(MOOC/NPTEL). Student's placement is given importance as

it renders the students an opportunity to gain specific skills in their subject or industry of choice as well as the employability and entrepreneur skills required for real-life work. Outreach activities are aimed to strengthen relations with industry, to contribute directly to society and to spread awareness in the community about the important contributions of the institution.

We will rigorously measure our progress in achieving change and improvement against the strategic objectives in this Plan. The accomplishment of these plans is evident through higher NIRF ranking, new R & D projects, more placements etc.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

The institution has formal organizational structure. Institution has its own Board of Governors (BoG) and as per State Government G.O (MS) No. 314 Dt 13/09/2007 which states the composition and major functions of the BoG. Academic Council is responsible for formulating, regulating and maintaining the standards of teaching, research and examinations. The Board of Studies (BoS) is primarily responsible for the curriculum design, delivery and assessment carried out in the relevant Departments. Being the member secretary of BOG, Principal involves in implementing the devised strategic planning for the development of the institution and conducts meetings periodically. The Progress made by the institution will be reported to the BOG Members which reviews the progress and functioning of the institution and suggest the remedial measures wherever needed in accordance with the Good Governance. The controller of examination is responsible for managing the examination process. Each department has its own head and they do academic and administrative management of the department.

IQAC is functioning in the college and its prime task is to develop a system for conscious, consistent & catalytic improvement in the overall performance of the institution. Apart from this, various committees are also functioning that give academic and

administrative support to the institution.

Service rules and procedures are as defined by the Government of Tamil Nadu. Recruitment is done by the Teachers Recruitment Board. All Promotional policies are based on UGC 7th pay commission. Government Orders related to service rules, procedures, recruitment, and promotional policies are available in the website (www.tn.gov.in).

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.accetedu.in/organisation-structure/
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.accetedu.in/committee-cell/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

B. Any three of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Welfare measures

Leave as per Tamil Nadu Government rules

- Maternity leave-12 months
- Medical leave
- Earned leave-240 days

- Casual leave-12 days and Restricted holidays-3 days
- Vacation-70 Days
- On duty
- Compensation leave for group C and D govt. servants

Loan

- Housing loan
- Vehicle loan
- Festival advance
- A 'Thrift Society' is functioning in the Institute to offer loans to needy staff at reasonable interest rate. Recurring deposit provision is also available with reasonable interest rate.

Medical Check-up

The college has taken measures to vaccinate our teaching and non-teaching staff members against COVID-19 through NSS and to follow Standard Operating Procedures in the campus.

Funding

- Leave Travel Concession
- General Provident Fund
- Family Benefit Fund
- Gratuity Pension Benefits

Insurance

National Health Insurance scheme

Other Benefits

- Library
- Free WiFi
- Canteen facility in a subsidized rate
- Bank ATM
- Residential quarters
- Gardening for walking way
- Purified drinking water
- Medical dispensary
- Playground for physical and mental fitness
- Ball badminton court
- Post office
- Cooperative store

Avenues for career development / progression

The institution supports the faculties to pursue their Ph.D. It encourages them to develop their communication, lingual, writing and quantitative excellences. The faculty members are permitted with on-duty to attend conferences, seminars, workshops, orientation programmes, refresher courses and FDPs. The college supports the faculties to apply for Major and Minor Research Projects. The faculties are also encouraged to do higher degree through part time mode. They are also encouraged to publish their research works in reputed national and international journals.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

6

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

26

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Yes.

The college has a well-structured mechanism of internal and external audit. A fulltime bursar, superintendent and cashier are available to maintain the annual accounts and balance sheet of the college. The internal audit is carried out every financial year by the Commissioner of Technical Education, Directorate of Technical Education, Chennai. The internal audit team comprises of financial advisor and officer of head of accounts. This audit team verifies the entire document related to financial transactions of this institution. In addition to the above, external audit by Accountant General, Government of Tamilnadu is conducted.

The objections and queries raised by the audit teams will be duly replied by the Principal of the college.

No.of Objections No.of objections Answered 26 26

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://drive.google.com/file/d/1INn1Is5ee-5u9AD33NOJe-t1-XAircnv/view?usp=drivesdk

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

498.115

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

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

The institution has four funds to guarantee sustainability as detailed below.

Corpus fund:

The source of this fund is from well-wishers of the Institution, Alumni, Faculty or other grants sanctioned by State Government / Government of India. The interest occurred from Tuition fee savings. The development and internal revenue generation share the equal amount. They are utilized for renewal of existing infrastructure, create new one, etc. which are not covered through Government funding.

Staff Development fund:

50% share of continuing education programme, IRG activities and consultancy services, 100% share from non-formal networking activities and residual portion of income from development and other fees are utilized for faculty and Staff up gradation that are not covered by Government Grant and as may be specified by the BOG.

Depreciation fund and Maintenance fund:

This institution's 25% of the share of net income from consultancy services, up to 50% of the IRG, balanced utilization of available facilities like Playground, Seminar hall, Conference hall, Equipment, academic space etc..., up to 50% of the savings from sanctioned budgeted expenditure (nonplan) and Block grant. The institute's 50% of share of net income from calibration testing training courses for target groups etc will also come under this category. These funds are utilized based on the decision by BOG, for removing obsolescence and maintenance of equipments.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The IQAC is part of the institution and work towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent & catalytic improvement in the overall performance of the institution.

As advised by the IQAC in tenth meeting of IQAC, Board of studies (BOS) of various boards namely Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science and Engineering and First year courses were conducted and syllabus revision/improvements were made. Subsequently the meeting of Academic council was also conducted on 19.11.2022 and approved the minutes of various BOS and regulation 2022.

As recommended by the IQAC in tenth meeting of IQAC, a common instrumentation centre was built to around 3400 sq.ft with the support of Alumni. It is planned to house the precise instruments such as Scanning Electron Microscope (SEM), X-ray Diffractor (XRD) in the instrumentation centre.

As advised by the IQAC in eleventh meeting of IQAC, all the engineering departments organized Technical Seminars and Symposiums for the benefit of U.G and P.G students of their discipline. Similarly a symposium was organized for the benefit of first year engineering students by the department of science and humanities

As suggested by IQAC in eleventh meeting of IQAC, Internal Smart India Hackathaon-2022 was conducted on 28.03.2022' In that 39 teams participated and 15 teams were shortlisted including wait list team based on the performance and SIH rules.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1mXmfyT_acckEB0QMW5a3pCCnhq-DTsyp/view

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Academic audits, both internal and external audits, are conducted once a year for both odd and even semesters which paves way for the sustenance and augmentation of the quality of the programme. The Academic audits are conducted and evaluated as per ISO standards. Audits include various academic aspects such as Curriculum and Development, Students Aspect, Teaching-learning-evaluation processes, Research, Innovation, Extension and other aspects.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state,

A. Any 4 or all of the above

national or international agencies (such as ISO Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://drive.google.com/file/d/1OMGWm2qpCNziRMAC_5gzOEI4inH5RRnS/view
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

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 year

7.1.1 Gender Equity (Number of gender equity promotion programmes) organized by the institution during the year

Title of the programme

Period (from-to)

Participants

Female

Male

Womens' Day Celebration

08/03/2022

425

0

The program was conducted to celebrate Women's Day on 8.3.2022 with the girl students of the college with many inspirational talks, speeches, dance activities by the chief guest and by students accordingly. SRIMATHI S.SEETHALAKSHMI Assistant District Project Co-Ordinator Samagra Shiksha Sivagangai District Karaikudi, Dr.P.K.PALANI, Principal presided the function along with other teaching and nonteaching faculties and students.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

C. Any 2 of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

1. Solid waste Management

The Solid waste in the campus is generated from various potential sources, such as Academic Buildings, Hostels, Canteen, Garden, etc. All the waste is managed by sweepers allotted for different buildings in the campus. Separate dustbins are provided for collecting biodegradable and nonbiodegradable wastes. Dustbins are placed at different locations in the campus. The incinerators are installed at ECE department, COE office and at College hostels to dispose the sanitary napkins. The food wastes generated from the canteen and hostel mess fed to cattle feed and also used in the projects done by M.E Environmental Engineering and B.E Civil engineering students. Cement concrete cube wastes from the

concrete laboratory are reused as pavers at some places in the campus. The obsolete equipments are removed from the laboratories by conducting auction, after obtaining permission from the technical Education.

2. Liquid waste management

Liquid wastes generated in the laboratories of Chemistry and Environmental Science are diluted with water and then discharged to the nearby trees, plants and gardens in the college premises.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting
Bore well /Open well recharge Construction of tanks and bunds Waste water recycling
Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

- 1.Restricted entry of automobiles
- 2.Use of bicycles/ Battery-powered vehicles
- 3.Pedestrian-friendly pathways
- 4.Ban on use of plastic
- 5.Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

E. None of the above

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance,

D. Any 1 of the above

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution believes in equality of all cultures and traditions. Though the institution has different socio-cultural background and different linguistic, our institution undertakes various initiatives to bring tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities. Every year our institute celebrates Republic day and Independence Day on January 26th and August 15th respectively to inform the qualities of freedom fighters and to emphasize the duties and responsibilities of citizens .The institution encourages participation of students in Sports and Games, NCC and NSS at National level to strengthen nationwide bond and relation.

On 12th July 2021 our college organisation distributed 35000 tree saplings to the public at free of cost to promote tree plantation. On 18.11.2021 Voters ID card application camp was conducted.Skill Centre run by NAANDI Foundation for the students and neighbouring community.

Our Institute act as TNEA facilitation centres

1. Tamilnadu Engineering Admission (TNEA'21-I Year)

- Online Registration & Application Filling
- Certificate Verification
- Online Choice filling
- Provisional Allotment

2. Tamilnadu Lateral Entry Admission

- Online Registration & Application Filling
- Certificate Verification
- Online Choice filling
- Provisional Allotment

Candidates from Sivagangai district used the facilities available in our TFC.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The college curriculum for post graduate is framed with courses like Constitution of India, Value Education, Professional ethics for engineers and Stress management by yoga as a small step to inculcate constitutional obligations among the students.

Sexual harassment of women prevention committee was constituted in ACGCET for the academic year 2021-22 to prevent the instances of harassment or exploitation of women to provide safe campuses for students, staff, and faculty without fear, threat or anxiety. Ant ragging committee was constituted in ACGCET to prevent ragging related issues inside and outside the campus. The college establishes policies that reflect core values. Code of conduct is prepared for students; everyone should obey the conduct rules. Faculties, Non-teaching Staff and Administrative staff should follow the conduct rules prescribed by the Tamil Nadu Government.
https://www.tnpsc.gov.in/static_pdf/departmental/tngovfr.pdf

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts A. All of the above

periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

National Integration day

It is celebrated on 19 th November on behalf of the birthday anniversary of the first woman prime minister Indira Gandhi. The Principal and staff members assemble together on that day to take pledge to ensuring and enhancing the love and unity in the society.

Anti-Terrorism Day

It is observed on 21st May every year in the memory of former Indian Prime Minister Rajiv Gandhi. The Principal and staff members assemble together to take pledge against Antiterrorism.

Gandhi Jayanti

Gandhi Jayanti is celebrated on 2nd October of every year in the occasion of Mahatma Gandhi birthday. This day is celebrated as the International Day of Non-Violence all over the world. The Principal and all staff members assemble together to show gratitude and honour him.

Independence and Republic day

Independence day and Republic day are celebrated every year. These national festivals are organized to enhance patriotic fervour among the young minds. Every year Principal hoists the National flag and then the faculties, students and NCC cadet pay a respect to the flag.

Muthamizh Mandram

Muthamizh Mandram aims to familiarize students with Tamil Culture. It conducts various events like Bharatanatyam, Oyillatam, Mayilatam, Karagattam, Silambam Pattimandram and Pongal.

Pongal celebration

To promote the concept of celebrating Pongal festival without any religious barrier, a programme titled "Samathuva Pongal" is celebrated with true spirit.

International Women's Day

It is a global day for celebrating the Social, Economic, Cultural and Political achievements of women on March 8 every year.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practices: Empower the students through Skill based training.

Objective of the Practices: To provide skill-oriented training to the students to make them industry ready and socially responsive.

and final year engineering students.

The Practice: Under the ambitious programme Government of Tamil Nadu called " Naan Mudhalvan Scheme" the students and faculty are continuously and consistently encouraged to upgrade and update their knowledge and improve their skill in Robotics, Industry 4.0, and Life skills etc. Experts from across the India and immanent industrial expert are shared their rich experience and interacted to ingrain skill set among participants.

Evidence of success. It is evident that upon acquiring skill and knowledge, students are inspired to participate in the competition of state and Central government of India. For example, the students from Mechanical engineering and Electrical and Electronics Engineering submitted the project to TNSCST, Government of Tamil Nadu. One projects from Mechanical was got selected and successfully completed the projects with the help of mentor.

Problems Encountered and Resources required: In the process, few students were identified as level of their interest and confidence were low. These students were given special attention by the mentor continuously and were given constant support for the students to increase their confidence level. In addition to that appropriate tools and equipment like robotic kit are required to practice continuously to acquire practical skill set.

Soft Skill training Expert. Skill- Lync, Skill India.

File Description	Documents
Best practices in the Institutional website	Nil
Any other relevant information	https://docs.google.com/document/d/1hd0gChEsm7dw5a-BNlBqAddX_uU_fg5R/edit

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Common Instrumentation Centre for students

ACGCET is a distinctive institution in the sense that a lot of continuous support it received from the Alumni of each batch in

every year. Alumni of 1965 Batch funded Rs. 75 lakhs for construction of Common instrumentation Centre with hi ended equipment for the benefits of students, research scholar and faculties to carry out contemporary research. It opens by 24/7 in the pattern of Institutions of National Importance. These facilities help faculties and students to learn and carry out the research on time.

Free Coaching for GRE/ CAT/ TOFEL

ACGCET is a recognized as premier institute by Department of Higher Education, to offer free intensive GRE/ CAT/ TOFEL courses for final year students. Resource persons from outside were conducted coaching class for a duration of 6 months. Totally 200 hours of intensive and interactive classes were conducted for the interested students. The coaching created the confidence among the students to crack internationally standardized test to get admission to master's and doctoral degree.

Foreign Language courses for Students

To increase the student's employability opportunities in abroad, a demand based foreign language classes were offered to learn German, French and Japanese. Eminent linguistic persons were employed to train the students in spoken foreign languages of their choice with a help of Department of Higher Education. Totally 60 students were interestingly participated and acquire the foreign languages spoken skills and thereby increase their chances in the international arena.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The institute has a systematic process for curriculum development, revision and implementation. The curriculum and syllabus for each program are judiciously designed with all the necessary basics of current technologies and opportunities available at local/regional/global levels. Each department has an own Board of Studies (BOS) consisting of internal faculty and external subject experts who design the syllabus of each course after extensive discussions. The curriculum and syllabus designed/recommended by each BOS is then placed for the approval of the Academic Council (AC). Curricula and syllabi are generally designed as per AICTE model syllabus, guidelines of affiliating university, and vision and mission of the institution. Every programme presents programme outcomes, programme specific outcomes, and carries course outcomes of each course. To promote strong and high-quality technical education, all U.G. Programs include Foundation courses, professional core, professional Electives, open Electives, employability enhancement courses, online courses, self-study courses and skill development courses in the curriculum. Also, students are encouraged to undertake industrial training/internship, as a result, the student can enhance their knowledge base in various fields. Courses on renewable energy and environmental studies are also offered to sensitize students to global health. All the five UG and six PG programmes offered by the Institution adopt Choice Based Credit System (CBCS) and practising Outcome Based Education (OBE).

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

5

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

356

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

98

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

11

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

In order to integrate cross-cutting issues related to gender, environment and sustainability, human values ??and professional ethics, the Institute has developed additional inputs in the curriculum to address general competencies such as professional skills / socio-ethical values, human values. The institution is committed to providing a harmonious environment where students, teaching, non-teaching and technical staff can work together in an environment free from violence, harassment, exploitation and intimidation. This includes all forms of gender-based violence, sexual harassment, and gender-based discrimination. There is an Internal Complaints Committee or Anti-Sexual Harassment Unit to effectively enforce fundamental human rights, ensure gender equality and combat sexual harassment and abuse, particularly sexual harassment in the workplace. Courses in professional ethics, human values, and environmental studies are embedded in the curriculum of all programmes. The institution has signed several MOU with various industries/institutes. As an integral part of student engagement in social activities during their programme of study, institute also mandates all the students to enrol as NSS/NCC/YRC/ROTRACT Volunteers. The College is enthusiastic on maintaining the green environmental condition by plating new trees and maintaining trees in college campus by NSS. The students organize different campaign to keep the city clean and hygienic and promote tree plantation in the city. Community developmental activities like Blood donation camp, Yoga, etc are also regularly organised by NSS.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

3

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

108

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

264

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	A. All 4 of the above
---	------------------------------

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.accetedu.in/wp-content/uploads/2023/07/Feed-back-and-action-taken-report-2021-22.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following	A. Feedback collected, analysed and action taken made available on the website
---	---

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.accetedu.in/wp-content/uploads/2023/07/Feed-back-and-action-taken-report-2021-22.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

404

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.)

as per the reservation policy during the year (exclusive of supernumerary seats)

240

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The institution organizes several programs for both advanced and slow learners.

For slow learners, the institution organizes three types of programs to enhance their learning skill.

- Bridge Courses - This course offers a complete revision of the basics necessary for engineering students. It helps the students to grasp and understand basics in Physics, Mathematics, Chemistry and for an effective communication in English. The course is provided for the first year B.E degree students of all branches as per the course syllabi provided by Anna University, Chennai.
- Weak Students Remedial Class - Remedial classes are conducted for students who are identified as slow learners from the first internal evaluation test. Tutorial classes with proper schedule are conducted for the students in the corresponding subjects without affecting the regular classes.
- Induction Program - This program is organized to bring out the creative skills of the students. External and Internal subject experts are invited to deliver special lectures.

For advanced learners:

Fast Track Courses - Fast Track courses are offered for fast learning students who wish to complete higher semester theory papers at the earlier semesters so as to enable them to go for internship programs in industries.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/06/2021	1758	115

File Description	Documents
Upload any additional information	No File Uploaded

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:

Curriculum, Syllabus along with Course Objectives and expected course outcomes for each course and list of text books and reference books are provided to the students in advance. Though black board is the basic teaching tool, many tools like LCD Projectors, Camera, Internet, Audio visual System are also used. Virtual class Rooms with interactive Board, Internet connectivity, camera, Projector, Multimedia system are available in all the departments and also in the Library.

Experiential Learning: Mini Project with two credits, Project with 10 Credits, soft skills development courses with 1 credit, Technical Seminar with 1 credit are introduced so that students learn through experience. Students are encouraged to undertake one credit MOOC courses and Registration fees paid by the students for examinations under MOOC courses are reimbursed. Industrial visits, inplant trainings, internships are taken by the students which enhance their experiential learning.

Participative Learning: In addition to ISTE students' chapter and IEEE Student Branch, each department has its own technical association.

Teaching Learning Centre: TLC is formed in the institution to identify and rectify challenges in Teaching Learning Process.

Tutorial Class: The Faculty is assisted by one or two supporting Faculty so that the Teacher Student Ratio is reduced in the tutorial class and the students' learning is monitored individually.

Guest Lectures, Symposium and Workshops: Students are encouraged to participate in various symposiums within and outside the campus to gain knowledge beyond curriculum. Technical Mini Project contest is conducted annually for the students so as to induce interest in learning among students.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Today, it is essential for the students to learn the latest technologies in order to be corporate ready. When ICT is integrated into lessons, students become more engaged in their work. This is because technology provides different opportunities to make it more fun and enjoyable in terms of teaching the same things in different ways. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.

The following tools are used by the Institute:

There are 8 ICT enabled classroom and 12 smart classrooms available in ACGCET campus. The laboratories Seminar Halls, Auditorium and conference Room are well equipped with ICT facilities.

The library also provides access to computers and online journals freely available in public domain and also to journals subscribed on the advice of faculty and facilitates downloads.

Internet and Wi-Fi facility is made available to all over the Campus at free of charge to encourage learning.

Google classroom is used to manage and post course related information- learning material, quizzes, lab submissions and

evaluations, assignments, etc.

PowerPoint presentations- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors.

Video Conferencing- Students are counseled with the help of Zoom / Google meet applications.

Workshops- Teachers use various ICT tools for conducting workshops on latest methods.

Around 115faculties are using ICT techniques to optimize the delivery of education.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://drive.google.com/drive/folders/1jDa7hVkvzBcSLTLKHNDXQcl654i_cke3?usp=sharing
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

115

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic Calendar is prepared at the beginning of every Academic Year in the HODs meeting in consent with the Principal and Controller of Examinations and is circulated to all faculty and students. Academic Calendar provides the schedule of Academic Events of the institution for both Odd and Even Semesters in a year.

Academic Events Schedule includes the following academic information:

1. Commencement of Classes
2. Date of Collection of Exam fees
3. Internal Tests Schedule - Three Tests per semester
4. Date of Submission of Attendance Particulars to CoE
5. Date of Issue of Hall Tickets
6. Date of submission of Internal Marks
7. Date of Issue of Hall Ticket
8. Date of Commencement of Practical Examinations
9. Date of Commencement of Theory Examinations
10. Date of Reopening of Next Semester / Year

For each subject, three internal evaluation tests are conducted in each semester. Three Assignments are given in each semester.

Record of class work is maintained by the Faculty Members for each Subject. This record of Class Work is Verified by the Head of the Institution every Month. Course plan for each course is prepared by the faculty member at the beginning of each semester that is approved by the head of the department.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

115

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

51

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1127

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

46

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

326

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

1. Every year, academic schedule is released with the approval of Academic Council.
2. Examination activities start with student's registration.
3. Continuous assessment: - Centralized continuous assessment is conducted to ensure transparency in the award of internal marks. Based on registration, list of students for the particular course is prepared and uploaded in the COE software. The course coordinator can upload test marks, assessment marks and attendance of students for each course. After completion of three tests, internal mark will be automatically calculated by COE software. Internal marks scored by the student is published and made known to students.
4. Semester End Examination: After the completion of Theory and Practical examination, results are published within a month of completion of last examination. For theory examination, evaluation sheet is attached in the first page of main answer sheet.
5. COE office has introduced "Transparency" in evaluation system. After the publication of results, students will be allowed to cross check the valuation of their respective answer scripts in the presence of Faculty Advisor and Course Coordinator. If they recommend, the student can apply for revaluation within 2 weeks from the date of result publication.
6. Revaluation results will be published within 1 week after considering all such applications.
7. Grade sheet will be issued within one month after the publication of revaluation results.
8. COE office maintains its own website www.accet.co.in for secured and authenticated communication to the stakeholders. This website is also linked to the college website.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.accet.co.in/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Response: Yes.

The defined mandatory Graduate Attributes (GAs) have been taken from the NBA guidelines. Based on the guidelines and inputs received from students, faculty members and alumni, the Department Advisory Board (DAB) prepares the Program Outcomes (PO), Program Educational Objectives (PEO), Program Specific Outcomes (PSO). Later, these POs, PEOs and PSOs are put up in the Board of Studies (BOS) for approval.

Program Outcomes (PO), Program Educational Objectives (PEO), Program Specific Outcomes (PSO) and Course Outcomes (CO) for all courses are printed in Regulation/Curriculum/Syllabus book and the copies of the same are distributed among the faculties and students of concerned departments. Moreover, the above details are made available in the CoE website under corresponding departments. The PO, PEO and PSO are disseminated in classroom, seminar hall, notice boards and laboratories.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://www.accet.co.in/

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The college evaluates the course learning outcomes in the following levels.

1.Course level: In this level, three series tests and assignments with overall weightage of 30 % is used. It is ensured that the three series tests and assignments cover the entire course objectives of the particular subject.

2.End semester examination: End semester theory and practical examinations with weightage of 70 % is used. It is ensured that the theory and practical examinations satisfy the course objectives of the particular subject.

3.The Program Outcomes (PO) and Program Specific Outcomes (PSO) are evaluated by a committee chaired by the Principal, Head of the department, senior faculty members, industry representative and stake holders. This committee collect data related to students learning. Based on this data, they determine whether the students have achieved the PO and PSO in all the subjects. Further, they analyse how to improve the student learning activity for the respective subject. This committee ensures that the students understand the objectives, outcomes and effectiveness of learning.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

482

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://docs.google.com/spreadsheets/d/1pRaDCZIym2TdvJAJmSZSm4LWv4lfmEmhTh_qygrwF-g/edit#gid=710607545

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Alagappa Chettiat Government college of Engineering and Technology is offering research through its six departments (Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science & Engineering and Science and Humanities). All these departments are recognized research centers of Anna University. All research scholars either pursuing through regular or part-time mode should be admitted through Anna University. Our institution encourages research through integrating the research with the academic program and enhances research facilities in the departments and establish center of excellence in emerging fields.

ACGCET is a recognized QIP Centre (Minor) from the academic year 2016-17. Three departments have been recognized (Civil Engineering, Mechanical Engineering and Electrical and Electronics Engineering) for the admission of regular Ph.D scholars with AICTE Scholarships. The main objective of QIP is providing opportunities to faculty members of the degree-level engineering institutions to improve their qualification by offering admissions to Master's and Ph.D. degree Programme.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	No File Uploaded
Provide URL of policy document on promotion of research uploaded on the website	https://www.accetedu.in/research-academic/
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

NIL

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

4

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1450300

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

31

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	No File Uploaded
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.aicte-india.org/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institution established an Incubation centre to facilitate the students to develop new products within the campus. Necessary funding, guidance and technical supports are given to the students to enhance the research activity towards learning. THIRAN is one of the platforms to perform innovative projects funded by the ALUMNI Association of our Institution.

Objectives

1. To facilitate resources to do multi disciplinary research.
2. To create awareness about current trends, technologies and new innovations among engineering students.
3. Motivating graduates to collaborate with various organizations for funding as well as knowledge sharing.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

35

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

C. Any 2 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	No File Uploaded
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

84

File Description	Documents
URL to the research page on HEI website	http://www.accedu.in/research-academic/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

51

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

14

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

1733

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

53

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

12.98

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Through extension activities such as NSS and Unnat Bharat Abhiyan, students have become aware of numerous social issues. By organizing such programs, they have had the opportunity to cultivate their leadership qualities. Working in the field has helped students acquire a diverse range of skills, including ethical communication with local communities and stakeholders. Furthermore, students have utilized their scientific knowledge to devise technical solutions for various problems through extension activities. Participation in extension activities like NSS and Unnat Bharat Abhiyan has exposed students to a wide range of social issues and helped them become more socially aware.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.accetedu.in/nsss/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

3

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

2

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1950

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

310

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

5

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

The college has the latest IT infrastructure to support the teaching-learning process. In each department, classrooms are available with a computer, LCD Projector and internet connectivity for enhancing teaching-learning process. Our college has a fully automated library which houses sufficient number of books of all disciplines, collection of rare books, manuscripts, special reports and large number of e- journals and e- books. Learning resources like e-journals, e-books, databases like Scopus, Web of science are available to faculty and students and can be accessed 24x7. Faculty member is encouraged to develop e- content for MOOC, NPTEL videos, EDUSAT, DELNET etc. Computer labs in all departments have software like MS Office, TOEFL, STAAD Pro V8, ETAP, SAP2000, AutoCAD, Pneumatics Robox, Atmel Studio, PSCAD, MATLAB, LabVIEW, dSPACE, HFSS, OPTIWAVE, CST Microwave studio, CADENCE, JAVA, Visual C++ MSSQL etc. In order to prepare teaching and learning materials, cabins of the faculty members are equipped with internet enabled computing facilities with printers. Demonstrative models and video lectures are used in the teaching learning process using the LAN and Wi-Fi facilities available in the campus. College maintains adequate student computer ratio with over 100 Mbps bandwidth for internet connection

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.accetedu.in/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The college encourages and offers facilities to the students to participate in outdoor and indoor games. The college campus has one badminton court, two ball badminton courts, one basketball concrete court, one cricket pitch, one football ground, one hockey ground, three tennis courts, one table tennis court, two volleyball courts, one kho-kho court, one handball ground, a open stadium, a gym room with 21 stations and a yoga meditation hall. The college has a separate tennis club which conducts summer coaching camps for students. Open ground is available in all hostels to facilitate the students to play during their leisure time.

Sports day is conducted annually and the students of all courses participate and show their talents in various sports and games. Budgetary provision is available to accommodate the expenditures related to the sports and games activities in the college. State level sports competitions are also conducted in this college and many students have participated and won medals.

During the even semester of every year, a colourful cultural function is conducted at the open-air theatre of the college to the students.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	http://www.accetedu.in/physical-education/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

53

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

938.22103

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

Autolib software is a fully integrated, versatile, multi-user library automation software used here. students can access the library with this software. It is designed to automate various activities of Libraries in College. This module allows to create and maintain database of digital library resources such as e-books, e-journals, audio/ video clippings, images, pictures, photos, animations, web resources, computer files, etc. It also allows users to search and retrieve data. year of automation is 29.06.2016. Easy to use / data entry made simple. Handles thousands of records more efficiently. Customisable data entry screen. Multimedia interface. Simple and fast counter transactions. Efficient circulation management system. Book ordering and serial control made simple.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.accetedu.in/library/

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	No File Uploaded

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

1,93,080

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

above 200

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The college has the latest IT infrastructure to support the teaching-learning process. In each department, classrooms are available with a computer, LCD Projector and internet connectivity for enhancing teaching-learning process. Our college has a fully automated library which houses sufficient number of books of all disciplines, collection of rare books, manuscripts, special reports and large number of e- journals and e- books. Learning resources like e-journals, e-books, databases like Scopus, Web of science are available to faculty and students and can be accessed 24x7. Faculty member is encouraged to develop e- content for MOOC, NPTEL videos, EDUSAT, DELNET etc. Computer labs in all departments have software like MS Office, TOEFL, STAAD Pro V8, ETAP, SAP2000, AutoCAD, Pneumatics Robox, Atmel Studio, PSCAD, MATLAB, LabVIEW, dSPACE, HFSS, OPTIWAVE, CST Microwave studio, CADENCE, JAVA, Visual C++ MSSQL etc. In order to prepare teaching and learning materials, cabins of the faculty members are equipped with internet enabled computing facilities with printers. Demonstrative models and video lectures are used in the teaching learning process using the LAN and Wi-Fi facilities available in the campus. College maintains adequate student computer ratio with over 100 Mbps bandwidth for internet connection.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2262	662

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. 50 Mbps
---	-------------------

File Description	Documents
Details of bandwidth available in the Institution	No File Uploaded
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	B. Any three of the above
--	----------------------------------

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/drive/folders/1hBPrusS551-eGLJalVhCaA9_Szl2lfgf?usp=sharing
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

138.04779

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

Yes.

- Our college has a dedicated Estate Office for maintaining the Cleanliness of buildings, class-rooms, Rest rooms, lawns and laboratories roads, water supply, security and other amenities and facilities.
- The construction and maintenance of buildings in the college and hostels are carried out by PWD Technical Education (civil wing).
- The electrical maintenance of college buildings are carried out by PWD Technical Education (Electrical wing).
- The Estate office maintaining the security of the campus properties using these security staffs and watchmen.
- The campus was well maintained by basic workers and also with the help of NSS student's volunteer's team. Drinking water facilities and rest rooms are provided in each building

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1405

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

5

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

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://www.accetedu.in
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1231

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances

A. All of the above

through appropriate committees

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

253

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

8

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

0

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Each department has its association which organizes seminars, symposia, national and international conferences on technical topics.

Muthamizh mandram-It intends to enhance and develop the Tamil language among the students. Pongal is celebrated in the college every year in a grand manner by this club.

National Service Scheme (NSS) - We have 3 NSS units with 300 volunteers.

Youth Red Cross (YRC) -It is providing relief in times of disasters, emergencies and promotes health care of the vulnerable peoples.

National Cadet Corps - Students get trained with basic military activities.

Leo club - sponsored by Lions Club of Karaikudi cosmos which inculcates leadership, experience and opportunity.

Rotaract club is the youth wing club of Rotary Club which serves the community.

Sangamam is a magazine released by the college periodically. Here the students are encouraged to write essay, poem etc., exclusively in Tamil.

The professional bodies such as ISTE, SAE, IEI operate for the development of students.

Each class has a class committee which meets once in a month to represent the difficulties and other requirements of the students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

5.3.3 - Number of sports and cultural events / competitions organised by the institution

7

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alagappa Chettiar Government College of Engineering and Technology Old Boys Association - ACCETOBA was started as a society in the year 1972 and was registered on 02-09-1973 (Regd. Society No. 37 of 1972) with the office at Alagappa Chettiar Government College Engineering and Technology, Karaikudi. Any student graduating from Alagappa Chettiar Government College of Engineering and Technology is eligible to be a life member of the association by paying a one-time fee (Rs.1000/-). The association helps and supports the alumni batches to organize and celebrate their Silver Jubilee of graduation in the institution and from 2006 the Golden Jubilee

batches are also celebrating their function every year in the campus.

The association gives cash awards to rank holders in the graduation day and best sportsmen every year during the sports day. The 1958 batch alumni have donated three lakh rupees from which an 8 gm Gold medal is given to the best outgoing Student every year from 2009. Alumni who are celebrating their Silver Jubilee, as a token of their gratitude to the institution, construct and donate hostel blocks, auditorium, computer centre, sanitary facilities, RO water plant and generators. Soft skill training is given to the students of third year B.E. for the past 5 years by the 1987 batch alumni in order to enhance the employability of the students. Also the alumni are organizing campus placements, seminars, career guidance programs and help in arranging for internships and industrial visits to reputed industries.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://alumni.accetosa.org/

5.4.2 - Alumni's financial contribution during the year

A. ? 15 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The college has qualified and competent administrators at various levels to materialize the vision and mission. The college is headed by the Principal supported by Vice-Principal, Head of the Department, Controller of Examinations, Faculty members, technical staff, administrative staff, support staff and sanitation workers. The leadership ensures the compliance of academic and administrative works through regular checks, meetings and audits.

Departmental resources are updated by purchase of instruments, equipment, machinery and furniture with financial assistance from Government of Tamil Nadu, TEQIP and Alumni. Teaching faculty, non-teaching staff and students are given training through TEQIP and AICTE sponsored courses. Soft skills training are made mandatory by including it in the curriculum for third year students funded and administered by the Alumni. Sense of social responsibility and awareness is created in the minds of the students through NSS, NCC, YRC, Rotract etc.

The administrative and academic activities are carried out with the planning and approval from the Board of Governors (BOG). BOG of our college is constituted by the Government of Tamil Nadu as per the UGC guidelines. It is headed by an eminent industrialist with adequate representation from other stakeholders also. It meets at least once in six months or as required.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://drive.google.com/file/d/1SO-DZeutinghQ8xJJI_khEHq6VkHZ_Oh/view

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Our college has decentralized governance and it manages the college by roping in the entire faculty members in the distribution and deployment of power. The Principal, the head of the institution, represents the Government is given financial powers. Likewise, the Heads of the departments are delegated full academic autonomy and financial autonomy to the tune of Rs.5000. Further, Head of the institution is supported by HODs and various committees in various academic and administrative functioning. Moreover, teachers especially faculty advisors are given freedom to take decisions in concurrence with the HODs related to students plea for leave and other permissions. At the same time, major decisions with regard to students and other institutional academic and financial issues are taken by the Principal after discussions with the HODs and respective committees.

Various committees are formed with faculty and staff to monitor

the progress and take necessary action for the completion of work. The committees available at present are:

1. Board of Governors
2. Academic Council
3. Board of Studies
4. Programme Evaluation committee
5. Department/Academic Advisory Board
6. Autonomous Finance committee
7. Finance & Accounts committee
8. Building & Works committee
9. Purchase committee
10. Disciplinary committee
11. Institutional development committee
12. Student affairs committee
13. Library committee
14. Grievance committee
15. Woman harassment prevention committee
16. Anti ragging committee

These committees meet when the situation warrants and submit their reports to the Principal. After consulting with the BOG, the Principal takes necessary steps to solve the issues reported by the committees.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://www.accedu.in/committee-cell/ , https://www.accedu.in/student-grievance/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The strategic plan is focused on an organizational management activity that has been used to set priorities, focus energy and resources, strengthen operations to ensure that the employees and other stakeholders are working towards a common goal. Strategic plan has been used as an important tool for guiding the day to day decisions towards the progress of the institute and also for evaluating the changes in the approaches when heading forward through assistance from various stakeholders, external agencies like NBA, NAAC, NPIU, NIRF, IIC & ARIIA.

Academic excellence is achieved using technology-based teaching

learning process and by continuous faculty engagement with effective utilization of resources. Strong and flexible curriculum is provided to promote creativity, problem solving and industry-oriented courses in line with OBE. Students are encouraged to earn at least 10% of their degree course credits through online platform(MOOC/NPTEL). Student's placement is given importance as it renders the students an opportunity to gain specific skills in their subject or industry of choice as well as the employability and entrepreneur skills required for real-life work. Outreach activities are aimed to strengthen relations with industry, to contribute directly to society and to spread awareness in the community about the important contributions of the institution.

We will rigorously measure our progress in achieving change and improvement against the strategic objectives in this Plan. The accomplishment of these plans is evident through higher NIRF ranking, new R & D projects, more placements etc.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

The institution has formal organizational structure. Institution has its own Board of Governors (BoG) and as per State Government G.O (MS) No. 314 Dt 13/09/2007 which states the composition and major functions of the BoG. Academic Council is responsible for formulating, regulating and maintaining the standards of teaching, research and examinations. The Board of Studies (BoS) is primarily responsible for the curriculum design, delivery and assessment carried out in the relevant Departments. Being the member secretary of BOG, Principal involves in implementing the devised strategic planning for the development of the institution and conducts meetings periodically. The Progress made by the institution will be reported to the BOG Members which reviews the progress and functioning of the institution and suggest the remedial measures wherever needed in accordance with the Good

Governance.The controller of examination is responsible for managing the examination process.Each department has its own head and they doacademic and administrative management of the department.

IQAC is functioning in the college and its prime taskis to develop a system for conscious, consistent & catalytic improvement in the overall performance of the institution.Apart from this, various committees are also functioning that give academic and administrative support to the institution.

Service rules and procedures are as defined by the Government of Tamil Nadu.Recruitment is done by the Teachers Recruitment Board. All Promotional polices are based onUGC 7th pay commission.Government Orders related to service rules, procedures, recruitment, and promotional policies are available in the website (www.tn.gov.in).

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.accetedu.in/organisation-structure/
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.accetedu.in/committee-cell/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

B. Any three of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Welfare measures

Leave as per Tamil Nadu Government rules

- Maternity leave-12 months
- Medical leave
- Earned leave-240 days
- Casual leave-12 days and Restricted holidays-3 days
- Vacation-70 Days
- On duty
- Compensation leave for group C and D govt. servants

Loan

- Housing loan
- Vehicle loan
- Festival advance
- A 'Thrift Society' is functioning in the Institute to offer loans to needy staff at reasonable interest rate. Recurring deposit provision is also available with reasonable interest rate.

Medical Check-up

The college has taken measures to vaccinate our teaching and non-teaching staff members against COVID-19 through NSS and to follow Standard Operating Procedures in the campus.

Funding

- Leave Travel Concession
- General Provident Fund
- Family Benefit Fund
- Gratuity Pension Benefits

Insurance

National Health Insurance scheme

Other Benefits

- Library
- Free WiFi

- Canteen facility in a subsidized rate
- Bank ATM
- Residential quarters
- Gardening for walking way
- Purified drinking water
- Medical dispensary
- Playground for physical and mental fitness
- Ball badminton court
- Post office
- Cooperative store

Avenues for career development / progression

The institution supports the faculties to pursue their Ph.D. It encourages them to develop their communication, lingual, writing and quantitative excellences. The faculty members are permitted with on-duty to attend conferences, seminars, workshops, orientation programmes, refresher courses and FDPs. The college supports the faculties to apply for Major and Minor Research Projects. The faculties are also encouraged to do higher degree through part time mode. They are also encouraged to publish their research works in reputed national and international journals.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

6

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

26

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Yes.

The college has a well-structured mechanism of internal and external audit. A fulltime bursar, superintendent and cashier

are available to maintain the annual accounts and balance sheet of the college. The internal audit is carried out every financial year by the Commissioner of Technical Education, Directorate of Technical Education, Chennai. The internal audit team comprises of financial advisor and officer of head of accounts. This audit team verifies the entire document related to financial transactions of this institution. In addition to the above, external audit by Accountant General, Government of Tamilnadu is conducted.

The objections and queries raised by the audit teams will be duly replied by the Principal of the college.

No.of Objections No.of objections Answered 26 26

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://drive.google.com/file/d/1INn1Is5e-e-5u9AD33NOJe-t1-XAircnv/view?usp=drivesdk

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

498.115

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

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

The institution has four funds to guarantee sustainability as detailed below.

Corpus fund:

The source of this fund is from well-wishers of the Institution, Alumni, Faculty or other grants sanctioned by State Government / Government of India. The interest occurred from Tuition fee savings. The development and internal revenue generation share the equal amount. They are utilized for renewal of existing infrastructure, create new one, etc. which are not covered through Government funding.

Staff Development fund:

50% share of continuing education programme, IRG activities and consultancy services, 100% share from non-formal networking activities and residual portion of income from development and other fees are utilized for faculty and Staff up gradation that are not covered by Government Grant and as may be specified by the BOG.

Depreciation fund and Maintenance fund:

This institution's 25% of the share of net income from consultancy services, up to 50% of the IRG, balanced utilization of available facilities like Playground, Seminar hall, Conference hall, Equipment, academic space etc..., up to 50% of the savings from sanctioned budgeted expenditure (nonplan) and Block grant. The institute's 50% of share of net income from calibration testing training courses for target groups etc will also come under this category. These funds are utilized based on the decision by BOG, for removing obsolescence and maintenance of equipments.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The IQAC is part of the institution and work towards realization of the goals of quality enhancement and sustenance.

The prime task of the IQAC is to develop a system for conscious, consistent & catalytic improvement in the overall performance of the institution.

As advised by the IQAC in tenth meeting of IQAC, Board of studies (BOS) of various boards namely Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science and Engineering and First year courses were conducted and syllabus revision/improvements were made. Subsequently the meeting of Academic council was also conducted on 19.11.2022 and approved the minutes of various BOS and regulation 2022.

As recommended by the IQAC in tenth meeting of IQAC, a common instrumentation centre was built to around 3400 sq.ft with the support of Alumni. It is planned to house the precise instruments such as Scanning Electron Microscope (SEM), X-ray Diffractor (XRD) in the instrumentation centre.

As advised by the IQAC in eleventh meeting of IQAC, all the engineering departments organized Technical Seminars and Symposiums for the benefit of U.G and P.G students of their discipline. Similarly a symposium was organized for the benefit of first year engineering students by the department of science and humanities

As suggested by IQAC in eleventh meeting of IQAC, Internal Smart India Hackathaon-2022 was conducted on 28.03.2022' In that 39 teams participated and 15 teams were shortlisted including wait list team based on the performance and SIH rules.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1mXmfyT_a_cckEB0QMW5a3pCCnhq-DTsyp/view

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Academic audits, both internal and external audits, are conducted once a year for both odd and even semesters which paves way for the sustenance and augmentation of the quality of

the programme. The Academic audits are conducted and evaluated as per ISO standards. Audits include various academic aspects such as Curriculum and Development, Students Aspect, Teaching-learning-evaluation processes, Research, Innovation, Extension and other aspects.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://drive.google.com/file/d/1OMGWm2qpCNziRMAC_5gzQEI4inH5RRnS/view
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

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 year

7.1.1 Gender Equity (Number of gender equity promotion programmes) organized by the institution during the year

Title of the programme

Period (from-to)

Participants

Female

Male

Womens' Day Celebration

08/03/2022

425

0

The program was conducted to celebrate Women's Day on 8.3.2022 with the girl students of the college with many inspirational talks, speeches, dance activities by the chief guest and by students accordingly. SRIMATHI S.SEETHALAKSHMI Assistant District Project Co-Ordinator Samagra Shiksha Sivagangai District Karaikudi, Dr.P.K.PALANI, Principal presided the function along with other teaching and nonteaching faculties and students.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

C. Any 2 of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

1. Solid waste Management

The Solid waste in the campus is generated from various potential sources, such as Academic Buildings, Hostels, Canteen, Garden, etc. All the waste is managed by sweepers allotted for different buildings in the campus. Separate dustbins are provided for collecting biodegradable and nonbiodegradable wastes. Dustbins are placed at different locations in the campus. The incinerators are installed at ECE department, COE office and at College hostels to dispose the sanitary napkins. The food wastes generated from the canteen and hostel mess fed to cattle feed and also used in the projects done by M.E Environmental Engineering and B.E Civil engineering students. Cement concrete cube wastes from the concrete laboratory are reused as pavers at some places in the campus. The obsolete equipments are removed from the laboratories by conducting auction, after obtaining permission from the technical Education.

2. Liquid waste management

Liquid wastes generated in the laboratories of Chemistry and Environmental Science are diluted with water and then discharged to the nearby trees, plants and gardens in the college premises.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities

A. Any 4 or all of the above

available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1.Restricted entry of automobiles**
- 2.Use of bicycles/ Battery-powered vehicles**
- 3.Pedestrian-friendly pathways**
- 4.Ban on use of plastic**
- 5.Landscaping**

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

- 1. Green audit**
- 2. Energy audit**
- 3.Environment audit**
- 4.Clean and green campus recognitions/awards**

E. None of the above

5. Beyond the campus environmental promotional activities

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

D. Any 1 of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution believes in equality of all cultures and

traditions. Though the institution has different socio-cultural background and different linguistic, our institution undertakes various initiatives to bring tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities. Every year our institute celebrates Republic day and Independence Day on January 26th and August 15th respectively to inform the qualities of freedom fighters and to emphasize the duties and responsibilities of citizens .The institution encourages participation of students in Sports and Games, NCC and NSS at National level to strengthen nationwide bond and relation.

On 12th July 2021 our college organisation distributed 35000 tree saplings to the public at free of cost to promote tree plantation. On 18.11.2021 Voters ID card application camp was conducted.Skill Centre run by NAANDI Foundation for the students and neighbouring community.

Our Institute act as TNEA facilitation centres

1. Tamilnadu Engineering Admission (TNEA'21-I Year)

- Online Registration & Application Filling
- Certificate Verification
- Online Choice filling
- Provisional Allotment

2. Tamilnadu Lateral Entry Admission

- Online Registration & Application Filling
- Certificate Verification
- Online Choice filling
- Provisional Allotment

Candidates from Sivagangai district used the facilities available in our TFC.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The college curriculum for post graduate is framed with courses like Constitution of India, Value Education, Professional ethics for engineers and Stress management by yoga as a small step to inculcate constitutional obligations among the students.

Sexual harassment of women prevention committee was constituted in ACGCET for the academic year 2021-22 to prevent the instances of harassment or exploitation of women to provide safe campuses for students, staff, and faculty without fear, threat or anxiety. Anti ragging committee was constituted in ACGCET to prevent ragging related issues inside and outside the campus. The college establishes policies that reflect core values. Code of conduct is prepared for students; everyone should obey the conduct rules. Faculties, Non-teaching Staff and Administrative staff should follow the conduct rules prescribed by the Tamil Nadu Government. https://www.tnpsc.gov.in/static_pdf/departmental/tngovfr.pdf

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

National Integration day

It is celebrated on 19 th November on behalf of the birthday anniversary of the first woman prime minister Indira Gandhi. The Principal and staff members assemble together on that day to take pledge to ensuring and enhancing the love and unity in the society.

Anti-Terrorism Day

It is observed on 21st May every year in the memory of former Indian Prime Minister Rajiv Gandhi. The Principal and staff members assemble together to take pledge against Antiterrorism.

Gandhi Jayanti

Gandhi Jayanti is celebrated on 2nd October of every year in the occasion of Mahatma Gandhi birthday. This day is celebrated as the International Day of Non-Violence all over the world. The Principal and all staff members assemble together to show gratitude and honour him.

Independence and Republic day

Independence day and Republic day are celebrated every year. These national festivals are organized to enhance patriotic fervour among the young minds. Every year Principal hoists the National flag and then the faculties, students and NCC cadet pay a respect to the flag.

Muthamizh Mandram

Muthamizh Mandram aims to familiarize students with Tamil Culture. It conducts various events like Bharatanatyam, Oyillatam, Mayilatam, Karagattam, Silambam Pattimandram and Pongal.

Pongal celebration

To promote the concept of celebrating Pongal festival without any religious barrier, a programme titled "Samathuva Pongal" is celebrated with true spirit.

International Women's Day

It is a global day for celebrating the Social, Economic, Cultural and Political achievements of women on March 8 every year.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practices: Empower the students through Skill based training.

Objective of the Practices: To provide skill-oriented training to the students to make them industry ready and socially responsive.

and final year engineering students.

The Practice: Under the ambitious programme Government of Tamil Nadu called "Naan Mudhalvan Scheme" the students and faculty are continuously and consistently encouraged to upgrade and

update their knowledge and improve their skill in Robotics, Industry 4.0, and Life skills etc. Experts from across the India and immanent industrial expert are shared their rich experience and interacted to ingrain skill set among participants.

Evidence of success. It is evident that upon acquiring skill and knowledge, students are inspired to participate in the competition of state and Central government of India. For example, the students from Mechanical engineering and Electrical and Electronics Engineering submitted the project to TNSCST, Government of Tamil Nadu. One projects from Mechanical was got selected and successfully completed the projects with the help of mentor.

Problems Encountered and Resources required: In the process, few students were identified as level of their interest and confidence were low. These students were given special attention by the mentor continuously and were given constant support for the students to increase their confidence level. In addition to that appropriate tools and equipment like robotic kit are required to practice continuously to acquire practical skill set.

Soft Skill training Expert. Skill- Lync, Skill India.

File Description	Documents
Best practices in the Institutional website	Nil
Any other relevant information	https://docs.google.com/document/d/1hd0gChEsm7dw5a-BNlBqAddX_uU_fG5R/edit

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Common Instrumentation Centre for students

ACGCET is a distinctive institution in the sense that a lot of continuous support it received from the Alumini of each batch in every year. Alumini of 1965 Batch funded Rs. 75 lakhs for construction of Common instrumentation Centre with hi ended equipment for the benefits of students, research scholar and

faculties to carry out contemporary research. It opens by 24/7 in the pattern of Institutions of National Importance. These facilities help faculties and students to learn and carry out the research on time.

Free Coaching for GRE/ CAT/ TOFEL

ACGCET is a recognized as premier institute by Department of Higher Education, to offer free intensive GRE/ CAT/ TOFEL courses for final year students. Resource persons from outside were conducted coaching class for a duration of 6 months. Totally 200 hours of intensive and interactive classes were conducted for the interested students. The coaching created the confidence among the students to crack internationally standardized test to get admissionsto master's and doctoral degree.

Forgien Language courses for Students

To increase the student's employability opportunities in abroad, a demand based foreign language classes were offered to learn German, French and Japanese. Eminent linguistic persons were employed to train the students in spoken foreign languages of their choice with a help of Department of Higher Education. Totally 60 students were interestingly participated and acquire the foreign languages spoken skills and thereby increase their chances in the international arena.

File Description	Documents
Appropriate link in the institutional website	https://alumni.accetosa.org/albums/photos/248455.dz , https://alumni.accetosa.org/events/event/245168.dz
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1. Encouraging faculty and students to apply for project funding underUnnat Bharat Abhiyanfor the benefit of rural environment.
2. Organizingskill development programs under "Naan Mudhalvan" initiative of Governemnt of Tamilnadu for third and final year B.E students..
3. Motivate the faculty members to submit the proposal to appropriate funding agencies like DST, SERB, AICTE,

TNSCST, TANII, DRDO, ISRO etc for the development of research.

4. Motivating and ensuring the participation of the institution in NIRF ranking.
5. Provide ambient environment and infrastructure for the students to excel their activity in worldwide.
6. Provoke faculty members to publish their research work in the peer reviewed journal to emphasize their findings on worldwide.
7. Encourage students to present their finding in national and international workshop and conference and develop intellectual network among the students.
8. Plan to introduce industry based elective subjects in the curriculum to enhance the employability skill of the students to suit the industrial needs.