



YEARLY STATUS REPORT - 2022-2023

Part A

Data of the Institution

1. Name of the Institution

VELAMMAL COLLEGE OF ENGINEERING
AND TECHNOLOGY

- Name of the Head of the institution **Dr. P. Alli**
- Designation **Principal**
- Does the institution function from its own campus? **Yes**
- Phone No. of the Principal **04522465285**
- Alternate phone No. **9994994991**
- Mobile No. (Principal) **9443566537**
- Registered e-mail ID (Principal) **principal@vcet.ac.in**
- Address **Velammal Nagar, Madurai
Rameswaram High Road, Viraganoor,**
- City/Town **Madurai-625009**
- State/UT **Tamil Nadu**
- Pin Code **625009**

2. Institutional status

- Autonomous Status (Provide the date of conferment of Autonomy) **27/08/2021**
- Type of Institution **Co-education**
- Location **Rural**

- Financial Status **Self-financing**
- Name of the IQAC Co-ordinator/Director **Dr. R. Perumalraja**
- Phone No. **04522465285**
- Mobile No: **9710207041**
- IQAC e-mail ID **vcet.mdu.naac@gmail.com**

3. Website address (Web link of the AQAR (Previous Academic Year))

<https://www.vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/AQAR%202021-2022.pdf>

4. Was the Academic Calendar prepared for that year?

Yes

- if yes, whether it is uploaded in the Institutional website Web link:

<https://www.vcet.ac.in/vcetit/pdfs/Handbook/VCET%20Handbook%202022-2023.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 2	A	3.02	2016	17/03/2016	17/03/2021
Cycle 2	A	3.02	2021	17/11/2021	31/12/2026

6. Date of Establishment of IQAC

20/02/2016

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
Dr. P.Alli / Department of CSE	IDEA LAB	AICTE, New Delhi	08/02/2023	115
Dr. P.Alli / Department of CSE	RPS	AICTE, New Delhi	01/06/2022	10
Mr. M. Karuppiah Ra	MSME Incuabtion	MSME	01/08/2023	15

jkumar/Department of Mechanical Engineering	scheme			
Mr.A.Gobinath / Department of Information Technology	MSME	MSME	02/01/2023	8.67
Dr.R.Narmathabanu / Department of EEE	DIC	DIC	Nil	0.35
Dr.R.Narmathabanu/ Department of EEE	MSME	MSME	Nil	1.25
DR.A. Radhika/ Department of EEE	MSME	MSME	Nil	7.5
Dr.P.Suveetha Dhanaselvam/ Department of ECE	DST	SHRI	01/06/2022	23
Dr.P.Rajeswari/ Department of ECE	MSME	MSME	01/06/2022	7.65

8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

9.No. of IQAC meetings held during the year 2

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken **Yes**

uploaded on the institutional website?

- 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**

- If yes, mention the amount

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

1. Obtained NBA accreditation for 3 years until 2025 in the CSE, ECE, EEE, MECHANICAL and IT departments . 2. Course curricula designed in line with NEP2020 3. Improvement in number of SCI/SCOPUS indexed publications. 4. Regular Academic audits and action taken to enhance quality education 5. Steps towards improvement in ARIIA and NIRF rankings

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
To Promote the culture of innovation among students	Obtained 4 Star rating for IIC activities done during 2022-2023
Approval for Department of AIDS and related activities	Functioning of Department of AIDS
Academic audit for quality assurance in teaching and learning	Regular internal audit and follow up external audit completed.
To motivate faculty to publish papers in Scopus/Web of Science Journals	A total of 255 papers has been indexed by SCOPUS/WoS during the years 2022 and 2023
Approval for New programme on Cyber Security and VLSI Design	Approval granted for UG courses on Cyber Security and VLSI Design.

13. Was the AQAR placed before the statutory body? **Yes**

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
IQAC Meeting	20/11/2023

14. Was the institutional data submitted to AISHE ? **Yes**

- Year

Part A

Data of the Institution

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DR.A. Radhika/ Department of EEE	MSME	MSME	Nil	7.5
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<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
IQAC Meeting	20/11/2023
14.Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> Year 	
Year	Date of Submission
2023	13/03/2023
15.Multidisciplinary / interdisciplinary	
<p>Multidisciplinary / interdisciplinary courses are essential for solving complex problems and providing appropriate solutions to the needs of society and industries. In order to inculcate problem-solving skills among the students, Open Elective</p>	

courses and professional elective courses are offered in the curriculum of all programmes. The curriculum includes four open elective courses and six professional elective courses to impart the required knowledge in cross-cutting fields and emerging technologies. Students can choose the open elective courses offered by other departments and broaden their knowledge in that particular field to solve complex problems. Professional elective courses can be chosen by students based on their interest in the upcoming technologies in their programme of study. The students are also encouraged to form inter-departmental teams to solve the problems posed by industries in various Hackathons and project contests.

16.Academic bank of credits (ABC):

Academic Bank of Credits is a credit facility envisioned by the Government of India in the National Education Policy (NEP) 2020. The scheme has the provision of creating a digital infrastructure that will store the academic credits earned by the students of various higher education institutes within the country. VCET students are given academic credits for the successful completion of NPTEL/SWAYAM courses.

17.Skill development:

The students are made industry ready through training programmes offered in association with industries. The students are trained in the following areas as per their interest in achieving placements, competitive examinations and higher studies:.

1. Communication skills in English
2. Computer programming
3. Aptitude skills
4. Leadership exposure and Professional Skill Development
5. Software oriented skills

Mini projects are encouraged in practical and theory-cum-practical courses. Problem statements from AICTE Smart India Hackathon are encouraged for building solutions through mini projects.

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

In order to expose the learners to Indian culture, tradition, and heritage, courses like Essence of Indian Traditional Knowledge, Constitution of India, Heritage of Tamil, Tamil and Technology have been included in the curricula. Resource persons with a

specialization in arts were invited to offer the course.

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

Outcome-Based Education (OBE) model focuses on improving technical education in India and helping budding Engineers compete with their global counterparts. Outcome Based Education (OBE) is an important tool for student-centered instruction that focuses on measuring student performance through outcomes. Our curriculum is restructured in such a way that it improves knowledge along with skills, assuring employability for young graduates of any discipline.

20.Distance education/online education:

The institute provides a maximum of 6 academic credits for successfully completing online courses on the Swayam/NPTEL platform. During the fifth to seventh semesters of their studies, students are allowed to register for NPTEL online courses, (for which they will receive a certificate upon performance review. After successfully completing the course, he or she must submit a copy of the certificate to the Head of the Department to be exempt from registering for an elective course. The student will be graded and awarded credits in professional electives based on the recommendation of a team of faculty members chosen by the Head of Department. Upon acceptance by the Head of Department, the recommendation will be sent to the Controller of Examinations. Students who have registered for a degree with honors can earn a maximum of 12 credits through NPTEL courses.

Students are also encouraged to upskill themselves to meet industry needs by completing online certification courses through Coursera, EdX, and Udemy platforms.

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 2058

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 494

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 2056

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

3.1 450

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 133

Number of full-time teachers during the year:

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 **2058**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 **494**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 **2056**

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 **450**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	133
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	133
Number of sanctioned posts for the year:	
4.Institution	
4.1	75
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	44
Total number of Classrooms and Seminar halls	
4.3	883
Total number of computers on campus for academic purposes	
4.4	248.146
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.

Velammal College of Engineering and Technology (VCET) was established in the year 2007, affiliated to Anna University, Chennai. VCET obtained UGC Autonomous in the year 2021. Curricula is designed by collecting feedback from internal and external stakeholders (Course instructor, Employer, Alumni, Parent) ensuring guideline of affiliating University and AICTE model curriculum and Graduate Attributes of NBA, in tune with the

vision and mission of the Institution

Courses related to the environment, sustainability, Ethics, Human values and rights, solid waste management, energy conservation, etc. were designed to meet local, national, and global development needs Civil Students have a option to select this courses from other department electives. To list a few

21CH103 Environmental Science

21PCE07 Green Building Concepts

21PME14 Renewable Energy Technologies

21PME39 Professional Ethics

21PCE15 Industrial waste water management

21PCE16 Air and Noise Pollution Control Engineering

21PCE17 Solid and Hazardous Waste Management

21PCE18 Environmental Impact Assessment

Course Outcomes (COs) for every course are defined and mapped with Program Outcomes (POs) and Program Specific Outcomes (PSOs). In addition, assessment tools to measure COs, the strength of CO-PO mapping, and CO-PSO mapping were also designed for effective assessment of the course curriculum.

Curricula are reviewed by the Board of Studies members and approved by Academic Council. Development of new courses and advancement in existing courses adhering to AICTE model curricula are done every year based on the needs and suggestions of various stakeholders.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	Nil

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

2

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

179

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

179

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
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	View File
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

The institute ensures integration of relevant cross cutting issues in the curriculum of the programme offered. Professional Ethics, Environmental science, Constitution of India are mandatory course in all undergraduate programmes. Courses like disaster management, green computing, project management, Entrepreneur development are also offered to the students.

Environmental science: The course encompasses all the aspects of the environment such as natural resources, biodiversity, pollution, alternate energy sources, and human intervention - causes and effects and social ethics. Apart from the mandatory course, an ECO club functions in the college; the club enrolls members and carries out activities to create awareness of environmental conservation.

Gender cell: VCET facilitates a gender-sensitive and congenial campus environment so that anyone in the campus is not subjected to gender-specific discrimination. The cell takes care of the issues related to gender if any and also popularizes gender equality through programs like International Women's Day celebrations. Grievance Redressal Committee takes care of the suggestions and grievances of the students and staff at all levels of the college.

Professional Ethics Human values and ethics are important to cultivate value-based education for students. A course on Professional Ethics has been introduced. The curriculum also includes a mandatory course on Professional Communication, and Interpersonal Skills courses to develop human values and communication skills.

Content beyond the syllabus on cross-cutting technology is bridged through seminars, workshops, industrial visits, etc.

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

38

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

900

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

801

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	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

B. Feedback collected, analysed and action taken

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
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

632

File Description	Documents
Any additional information	View File
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)

270

File Description	Documents
Any additional information	View File
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.

Special Programs for First-year students

The first-year students are segregated into different sections based on their Higher Secondary group, medium of study and cutoff mark. To improve their learning ability, the orientation program is conducted even before the beginning of the semester: This program includes:

- Skill enhancement through Advanced Learning
- Outline of outcome-based education
- Career Guidance
- Design thinking
- HELM-Heartfulness Enabled Leadership Mastery Program- conducted by External team
- Personality Development
- Soft skill training

Programs for Slow Learners

The following initiatives are taken to improve slow learners' learning ability:

- Coaching classes beyond working hours
- Mentoring/Counseling: The faculty is assigned with 15-20 students and they are regularly counseling their wards for academic accomplishments.

- Many motivational talks are arranged through the Institution Innovation Council(IIC)
- They are involved in Department Association and IETE activities to improve their administrative skills.

Step-ups for Advanced Learners

- Fast learners are allowed to take up fast-track courses.
- The MoU-signed industries are offering many internships.
- Students interested in projects are identified and motivated to participate in Contests like Smart India Hackathon, 3-Idiots, etc..
- Interested students are given a module from funded projects as their final year projects so that they work along with the investigators.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-2/2.2.1-2022-2023.pdf

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
14/03/2023	2063	133

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:

Experiential learning:

- The curriculum is crafted to keep students updated with the latest knowledge, incorporating industry-related courses. Students can select their open elective and professional elective courses.
- To align the students with the industry developments, the students are made to go for internships at a minimum duration of 15 days and Industrial Visits for 1 or 2 days.
- Innovative Assignments & Mini project

The implementation of the concept improves their experiential learning, and this is done in groups as mini projects where they are asked to do small projects, real-time implementations, and submit a report for the same.

Participative learning:

- Students join with faculty members in executing projects funded by industries and government agencies thereby providing an opportunity to understand higher-level concepts in their domains and get hands-on experience in handling equipment, instruments, and machines.
- Handling the classes to the junior students by seniors, mentoring by alumni, laboratory courses, preparation for competitive examinations, wherever required.

Problem Solving Methodologies:

- Offering courses that lead to diagnosing a problem and providing solutions.
- A tutorial component is introduced in the analytical courses, wherever required.
- Designing and developing new products to participate in various competitions.

- Pre-placement internships in companies help to solve problems and Execute capstone projects.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-2/2.3.1-2022-2023.pdf

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

Process :

- Classrooms are equipped with projectors to enable the faculty members to handle their classes effectively.
- The Central Library consists of subscriptions of IEEE journals which helps to access the online research papers effectively.
- Google Classrooms are used to post and share their online resources and also to teach effectively.
- Online tools like Quizz, educandy, Circuit Maker, Online Exam Maker, Exam View, etc.. Are used by the subject-handling staff members to deliver the contents and assess them.
- Innovative Assignments-More online assignments and tasks are given to students for better learning.
- NPTEL lectures are used to explain concepts.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-2/2.3.2-2022-2023.pdf
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

127

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

Preparation of Academic Calendar:

Before the start of an academic year, the institution prepares the academic calendar in coordination with the Senior Principal, Principal, Deans, Heads of Departments, and various Club in-charges. It has the details of the commencement of classes, Internal Assessment Tests (IATs), seminars, workshops, and other events organized by each department. It is also being disseminated through the college website. The planned schedule is followed systematically and monitored by the HODs, class in-charges, and club in-charges.

Preparation of Teaching Plan:

Based on the academic calendar, the course instructor prepares a course plan that includes the number of hours, reference books, and the pedagogical techniques required to address a topic. Laboratory manuals are prepared in advance which gives a detailed description of the experiments.

Adherence to the Teaching Plan:

Based on the academic calendar, IATs are conducted and the marks are uploaded to the Student Information System (SIS) software by the concerned course instructor. The Academic Audit Committee verifies the course file whether activities are carried out as per the teaching plan or not at the end of the academic year.

Adherence to the Academic Events:

The events to be conducted are very well planned before the beginning of the semester. If there is any deviation, it is properly justified and minutes are recorded.

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

133

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

53

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	View File

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

819

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**

70

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	View File

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

193

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	View File

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

VCET has adopted summative assessments namely Continuous Internal Assessment Tests. By this, the performance of the student is evaluated by three internal assessment tests for

theory courses and one model examination for the practical courses.

Process for Internal semester Question paper setting & Evaluation and Effective Process Implementation

The internal tests are conducted twice in a semester and one model exam is conducted at the end of the semester. Based on the portions, of Bloom's taxonomy and framed COs the question bank is prepared for each course. Previous year's University questions and GATE questions are also taken into account while preparing the question bank. The prepared question bank is verified by the Course Coordinator, the module coordinator, and then by the HOD. Question paper is chosen at random in the ratio 1:3 for each by the COE.

VCET has the provision of a Student Information System (SIS) portal. The marks of Internal Assessments Test, Assignment, and hourly attendance are entered in SIS by our faculty members. Hence, the calculation of internal marks and consolidated attendance is performed directly by SIS. For project work, three reviews are conducted.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-2/2.5.3-2022-2023.pdf

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

The institution follows "Outcome Based Education" and imparts education through a student-centric approach. 12 Program Outcomes (POs), and 2 Programs Specific Outcomes (PSOs) are formulated for all the programs. The curriculum composition is carefully designed to attain the defined POs and PSOs.

The Course Outcomes (COs) are formulated for all the courses and approved by the Board of Studies. The COs of each course are discussed with the students at the beginning of each unit by the course faculty. Also, the COs are mentioned in the continuous internal assessment test question paper along with their

knowledge level for each question.

The Vision, Mission, POs, and PSOs are published on the college websites. The dissemination of the same to the stakeholders such as faculty, students, alumni, parents, and employers is done as mentioned below:

Displayed on the College Website

Discussion in the Induction Programme

Professional Body meetings

Library

Displayed in the department prominent places like:

HOD Room

Classrooms

Laboratories

Display Boards

Faculty Cabins

Seminar Hall

All brochures of FDPs/Seminars/ Conferences

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://vcet.ac.in/vcetit/curriculum.html

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

The assessment tools are selected based on the nature of the courses (e.g., Theory, Lab, and Project) and the performance of the students is evaluated for each CO.

The overall CO attainment has been calculated by considering 60% of CO attainment obtained using internal assessments and 40% of CO attainment obtained using university exams.

The attainment of CO against the target is checked; the level of attainment and the level of competency is increased for the next academic year if the target is achieved.

Otherwise, a Program Assessment Committee meeting is conducted to discuss the necessity of amendments in the content delivery method, content beyond the syllabus, and assessment method by considering the course evaluation and instructor report to achieve the CO attainment against the target.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-2/2.6.2-2022-2023.pdf

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

469

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	View File
Paste link for the annual report	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-2/2.6.3-2022-2023.pdf

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://acrobat.adobe.com/id/urn:aaid:sc:AP:5921466a->

[c4ba-4e8c-83b7-fd502a437b5e](https://doi.org/10.1007/978-98-99-97903-9_10)

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

Research Policy

Velammal College of Engineering and Technology (VCET), Madurai, is committed to creating a supportive and innovative environment for its faculty and students, wherein research and innovation will flourish. VCET emphasizes research ethics and integrity, along with the responsible conduct of research and protection of intellectual property rights. The researcher will abide by the VCET Research Policy and will also be responsible for adhering to the research practices prescribed by UGC and Anna University, Chennai.

Candidates shall publish their research articles in reputed peer reviewed journals/conferences after obtaining formal permission from the faculty guide.

Candidates shall be motivated to translate their research products into marketable products following VCET Innovation and Startup Policy.

2. Plagiarism Check

(i) All the Anna University recognized supervisors shall access to the Plagiarism check software provided by Anna University, Chennai and permit their scholars to publish it in the journals/conferences.

(ii) All the research scholars should enclose a copy of the plagiarism check report in their thesis reports.

(iii) Maximum of 20% similarity is allowed for Ph.D. thesis, synopsis, and M.E. thesis reports.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	http://www.vcet.ac.in/vcetit/pdfs/Research/Research%20Policy
Any additional information	View File

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

1

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)

173.57

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	View File

3.2.2 - Number of teachers having research projects during the year

9

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://www.vcet.ac.in/vcetit/research.htm 1
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	View File
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

4

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	http://www.vcet.ac.in/vcetit/research.htm 1
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 has a well-balanced eco-system for promoting students' innovation with the help of scholarly faculty and excellent infrastructure. Students are given the opportunity to work with the faculty on live projects and research. This results in students participation in research publications, patents and products. The Centre for Innovation and Entrepreneurship at VCET aims at establishing Innovation Hub by building an eco-system through industry partnerships. The college nurtures startups from the ideation stage by conducting boot camps, entrepreneurship awareness camps, industrial visits, hackathons, and technical talks. It provides them access to partners and investors with the Help of TN Startup Initiative of the Tamil Nadu Government. The Cell also assists the startups in gaining a value proposition by providing mentor support, connecting them with Government organizations like Entrepreneurship Development Institute of India (EDII), Ministry of Micro, Small & Medium Enterprises (MSME). The college is recognized as host institution (HI) for setting up Business

incubator by MSME.

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

11

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

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

B. Any 3 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	View File
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

56

File Description	Documents
URL to the research page on HEI website	<p><u>Research Policy Velammal College of Engineering and Technology (VCET), Madurai is committed to create a supportive and innovative environment for its faculty and students, wherein research and innovation will flourish. VCET emphasizes research ethics and integrity along with the responsible conduct of research and protection of intellectual property rights. The researcher will abide by the VCET Research policy and are also responsible to adhere to the research practices prescribed by UGC and Anna University, Chennai. Vision Mission ? To develop a sustainable research culture for the benefit of the society ? To develop innovative solutions to help the society ? To continuously engage with stakeholders to implement such solutions ? To establish centers of excellence in applied and innovative research in the respective field</u></p> <p>1. Academic Research</p> <p>1.1 Norms for Doctor of Philosophy (Ph.D.) and Master of Science (M.S.) by research.</p> <p>(i) Admission and other requirements for carryout the research as prescribed by the Anna University, Chennai/University in which registered for Ph.D. (ii) Faculty should complete one year of service at VCET before enrolling for the Ph.D. under part time. (iii) Faculty after the award of Ph.D., shall get the supervisor recognition from the Anna University within 2 years. Number of scholars guided by the supervisor, canbe limited by VCET based on the availability of the infrastructure facility. (iv)</p>

External faculty shall register for their Ph.D. under the supervision of VCET faculty after getting due approval from the Principal, VCET. (v) Full time PhD scholars shall assist the supervisor/department in research and development activities. 1.2 Norms for Master of Engineering (M.E./M.Tech) and Bachelor of Engineering (B.E./B.Tech) (i) As prescribed by the VCET (R 2021) or Anna University Regulations. (ii) Candidates shall be encouraged to carry out interdisciplinary research projects as per the guidelines provided in the VCET R-2021 regulations(12.4) (iii) Candidate shall publish their research articles in reputed peer reviewed journals/conferences after obtaining formal permission from the faculty guide. (iv) Candidates shall be motivated to translate their research products into marketable products following VCET Innovation and Startup Policy. 2. Plagiarism Check (i) All the Anna University recognized supervisors shall access to the Plagiarism check software provided by Anna University, Chennai and permit their scholars to publish it in the journals/conferences. (ii) All the research scholars should enclose a copy of the plagiarism check report in their thesis reports. (iii) Maximum of 20% similarity is allowed for Ph.D. thesis, synopsis, and M.E. thesis reports. 3. Publications (i) Faculty must present/publish two papers per year in SCI/Scopus/WoS indexed journals or conferences. (ii) Faculty shall file/publish one patent in every two years. (iii) VCET shall reward the faculty members who present/publish their research articles in the SCI/Scopus/WoS indexed journals/conferences leading to the better NIRF and other ranking frameworks. a) For joint publication by faculty, 0.5 credit(in the case of two

authors) and 0.3 credit(in the case of three authors)shall be awarded. (iv) Each department shall constitute a research board as found in Figure 1 to facilitate faculty and student publications in the reputed journals/conferences. (v) Research Board is responsible for ensuring quality publications and shall recommend for the award of incentives and weightage in the Faculty Performance Appraisal System. (vi) Research board shall prepare and update the h-index and i-10 index of the respective department in the college in the website yearly once and ensure that respective faculty's Google scholar, Scopus and Vidwan accounts updated continuously. (vii) Disseminate the research incentives details in the college website then and there. Principal HoD Subject Expert (Internal) Subject Expert (External if reqd.) Dean (R&D) Figure 1 Research Board -Publications (Department level) 4. Sponsored research (i) Faculty must submit one research proposal per year as per the VCET- HR Policy, either as Principal Investigator (PI) or Co - Principal Investigator (Co-PI). (ii) Every faculty shall apply for the funding support from the Government/Research organizations' call for research proposals and carry out sponsored/collaborative research. For AP - Either PI or Co - PI. For Asso. Prof. - As Principal Investigator. For Professor - As Principal Investigator. (iii) Each department shall constitute a research board as found in figure 2 to facilitate faculty towards submission of winnable project proposals to the Government/Research Institutions. (iv) Research board shall advise the faculty on the nascent fields of research to submit project proposals. Principal HoD Subject Expert (Internal) Subject Expert (External)review2 Dean (R&D) Figure 2-

Research Board-Sponsored research(Department level) (v) PI and Co-PIs are responsible for carrying out the research as per the funding agency requirements. (vi) PI shall submit the project completion report as per the funding agency requirements. (vii) PI and Co-PIs shall publish their innovations as Patents and a final report indicating the contribution to the society should be submitted to the VCET. (viii) Research board shall recommend the PI and Co-PIs for incentive scheme as per the VCET-HR Policy after the successful completion of the sponsored research. Funded Projects 1 % of the sanctioned amount Maximum of Rs. 50,000/- Single PI- 80% PI - 50%, Co-PI -30% Supporting Staff - 20% Consultancy Projects 60% to the faculty 40% to the institution Maximum of Rs. 10,000/- Patents (Granted) Rs. 10,000/- To be shared by all the faculty (VCET affiliation must be present in the patent application) (ix) Research board shall be responsible for periodic updation of their R&D details in the VCET website and in NBA, NAAC, AICTE information portal. (x) Research board shall prepare department wise research bulletin and disseminate their research details to their stakeholders once in a year. (xi) Research board shall ensure that the completed funded projects are widely covered in the press, social media. (xii) Research board shall encourage the PI and CoPIs to submit the completed projects for next level to the research institutions. 5. Research Program organization (i) Department shall organize one Internal Conference in every two years. a) Key note speakers, Editorial board members and advisory board members of the conference shall be invited from leading organizations and institutions after the due approval from the Management b) Organizers shall

conduct the conference as per the IEEE/ASME standard and shall ensure that all the presentations are published as Scopus/WoS indexed proceedings. c) Organizers shall submit seminar grant proposals for funding support from leading R&D organizations (ii) Department shall organize an exclusive project competition for the students and the best projects shall be ranked based on the Technology Readiness Level (TRL). (iii) Department shall arrange for special lectures/workshops, training programs and sensitization programs to promote quality research culture among faculty and students. (iv) Department shall ensure enthusiastic participation of their students in all the national and international level project competitions like Smart India Hackathon, MSME Idea Hackathon, Google coding contest, VCET - 3 Idiots, ISTE- Best Project awards, etc.

6. Collaboration and partnerships (i) Department shall initiate to sign Memorandum of Understanding (MoU) with leading Industries/Institutions to foster research culture among the faculty and students. (ii) Department shall make use of the various research facility available with VCET like MoUs signed with Industries, AICTE Idea Lab, Center for Innovation and Business Incubator (CIPD-BI), IEDC Cell, Idea Factory for their research and consultancy work. (iii) Department shall look for avenue in other departments and submit multi-disciplinary project proposals to the funding agencies. (iv) Department faculty shall visit industries and research institutions of national repute like CSIR, CECRI, DRDO, ISRO etc. during the vacation period and update their research aptitude. (v) Department research board shall keep abreast of other department research activities and ensure possible mutual citations in their research

	<p><u>publications. (vi) Department shall sign MoUs with foreign universities and research institutions to enable the B.E./B.Tech. and M.E./M.Tech. students to do their internship/research projects in institutions abroad. (vii) Department shall always look for opportunity to submit their joint research proposals in India and other countries whenever there is a call for research proposals. a) Department shall plan for one international workshop/seminar every year with experts from foreign institutions. b) Department shall establish good rapport with the leading foreign universities via joint publications. c) As per the funding agency guidelines, India- abroad projects shall be executed after getting due permission from the Management.</u></p>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

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

69

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

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

56

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-3/3.4.4-2022-2023.pdf

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

3200

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

50

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)

0

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	No File Uploaded
Any additional information	No File Uploaded

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	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

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

Velammal College of Engineering and Technology, Madurai is actively and aggressively organizing and participating in various extension activities and outreach program to promote the Institute-Neighbourhood community to sensitize the students towards community needs. The Institute believes in not only promoting the societal and community activities to sensitize students but also leading in shaping the students and faculty and staff into responsible citizens of the nation and imparting all round development of students in each vertical. Various Society Committee team members and organizers inculcate this

awareness and goodness through various program like Cleanliness, Green environment & tree plantation, Gender sensitization, Hygiene and Environment Awareness, Plantation drive, Mental health awareness, Feed animal drive for stray cows, National Youth Day celebration, Road safety awareness campaign, NSS Day celebrations, Blood donation camps, Eco Club activities, Women Development and Empowerment activities, International Disability day activities etc. All these mentioned activities have a positive impact on the students, and they developed student community relationships, leadership skills, and self-confidence of students. It also helped in cultivating the hidden personality of students and creating awareness among students. Apart from this the significance of clean surroundings, hygiene, sanitation in the neighbourhood, garbage disposal, and sensitizing the community at large to these vital issues. All these initiatives have gone a long way in the holistic development personality of the participants of these programs.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-3/3.6.1-2022-2023.pdf

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

0

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

32

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

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

150

File Description	Documents
Reports of the events	View File
Any additional information	View File

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

261

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)

35

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	View File

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 adequate physical and academic facilities required as per University Grant Commission guidelines to run the different programs.

DEPT

No. of Class Rooms

No. of Labs+ Drawing Hall

Smart Class Room/Tutorial/Seminar Hall

CIVIL

4

8

1

CSE

8

4

2

ECE

9

6

1

EEE

4

10

1

IT

7

5

1

MECH

5

10

1

Classrooms:

Number of Classrooms: 37

- Equipped with Projector, Podium, Fan, Light, Glass board with good ambience, adequate lighting and good ventilation.
- Class room size is equal to or more than that given in UGC norms.
- Wi-Fi enabled to implement Active Learning strategies

Number of Tutorial Halls: 7

- Equipped with LCD Projector and Wi-fi

Number of Laboratories: 43

- All laboratories are well equipped with state-of-the-art equipment and facilities for conducting practical classes and for technology learning & training as part of teaching content beyond the syllabus.
- Labs have sufficient licensed software and open-source tools to cater to the requirements of curriculum & industry enabled teaching and Research

Computing Facility:

- Internet facilities are available on the whole campus, including labs, classrooms, library, offices of all departments, and hostels. The entire campus is Wi-Fi enabled, with 24/7 internet facilities for students and faculty.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-4/4.1.1-2022-2023.pdf

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 institute provides ample opportunities for the overall development of the students through participation in co-curricular activities and extracurricular activities. Outdoor and indoor sports are encouraged among students to groom them with qualities like leadership, team spirit and competitiveness. Our students regularly participate in Anna University Tournaments, Association Tournaments, and Invitation Tournaments and bring laurels to the institution.

Sports Facilities

1 Play Field =Total area 3 Acres

2 Outdoor Sports & games

Basketball Court 1 No -15m X 28m

Kabaddi Court 2 Nos -13m X 10m

Volleyball Court 2 Nos -18m X 9m

Tennis Court 2 Nos 2 - 3.77m X 10.97m

Handball Court 1No -40m X 20m

Ball Badminton 2 Nos -24m X 12m

Badminton Court 2 Nos -13.40m X 6.10m

Kho - Kho Court 1 No - 19m X 30m

Track & Field Non - Standard 200 Mts

Long Jump Pit 1 No -3m X 9m

3 Indoor Sports & Games

Table Tennis 3 Board 30m X 30m

Chess 15 Board Standard 4

Gymnasium 11m X 8.50m

Auditorium:

An Institute has an auditorium with good acoustics. There is a speaker stand and a few chairs for the presiding officer and others. There is a mike and speakers in the hall. The hall was constructed in such a way that the speaker's voice is clearly heard in the entire hall without strain or echoes. The acoustics and the appearance of the hall can be improved using appropriate special plaster, curtains, wall hangings and absorbent ceilings. Adequate facilities of flood light and spot light should be available.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-4/4.1.2-2022-2023.pdf

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

44

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)

248.146

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)

Library Automation

The Library is fully automated using the software "AUTOLIB" - multi user LAN version 5.1 with WEB OPAC. Our college library is fully automated from the academic year 2009-2010.

Library Automation Software contains various modules that are cataloguing, reports, acquisition, circulation, OPAC, database management, periodicals and many more which helps in the smooth functioning of library management.

The purpose of library automation is to satisfy user needs in the changed information scenario. As the computer can be used to perform the various activities of the library, library automation can serve as a remedy to all the existing problems of libraries.

OPAC

Users can access the Book availability and other resources' information (CD-ROM, Back Volumes, and Projects) with the help of Online Public Access Catalogue. Using OPAC, User Can Search the availability of books based on the title, author and accession number.

Three systems are dedicated for OPAC in the library.

Using Web OPAC, users can access their Personal transaction information (issue/return of Books).

OPAC can be accessed throughout the campus through an IP address and also through the college website.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-4/4.2.1-2022-2023.pdf

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	View File

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

44.66940

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

61.78

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 a high-speed campus-wide network with 980 systems. Labs with PC's in all the departments give ready access to computing resources, services software and applications providing specific teaching/learning needs of the department.

Internet Facility with one leased line, from Airtel with 300 Mbps and 15 mbps for RF. The Internet Gateway comprising a Web Server, Symantec Endpoint Protection 14.0 ,Firewall protection

through SOPHOS XG 230 Xtreme Protection UTM, D'Link switch and other networking components have been provided for an efficient and secure LAN.

The Main Computer Center has multiple servers namely: Windows server, Linux server, CAD/CAE server, Oracle database server, LMS server(Moodle), NPTEL Server. All the servers can be accessed across the campus through LAN. The details of major IT facilities updated in the academic year 2022- 2023 are enclosed in the attachment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-4/4.3.1-2022-2023.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2038	883

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	View File
Upload any additional information	No File Uploaded

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

E. None of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

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)

248.14620

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, there are well established systems and procedures for maintaining and utilizing physical, academic and support facilities. All facilities are regularly updated and maintained by the assigned faculty.

Infrastructure Facilities:

Infrastructure facilities are maintained by the team of civil engineers, plumbers, electricians, supervisors, gardeners and carpenters.

Utilization of Classrooms and Laboratories:

Utilization of classrooms, Laboratories and seminar halls are ensured before the commencement of semester. Entry is to be made in register for resource utilization.

Laboratory

All the laboratories are well maintained, lab in-charge and

staff in-charge are taking care of maintenance works, which will be verified by the Head of the Department. Well established procedure is available for service and maintenance of lab equipment. Lab technician periodically maintains all the equipment's.

Library

The Central Library of the Institute is stacked with thousands of books and periodicals. These materials have been arranged neatly in the prescribed order. Annual stock verification is being carried out regularly and the annual stock of books, shelves, computers, and other belongings are monitored and maintained in the library stock register. It keeps track of new book requirements, renewal and subscription of journals and book circulations.

Physical Education Department

The physical director is responsible to take care of sports equipments, facilities and regular sports activities. Qualified and experienced markers are available to maintain the sports field.

Other services/facilities on the campus include:

- Cafeteria facility
- Banking / ATM facility
- Stationary and Reprographic facilities
- Transport facilities
- Fully equipped medical centre with an Ambulance

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-4/4.4.2-2022-2023.pdf

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**

508

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

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

0

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

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	http://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-5/5.1.3-2022-2023.pdf
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

2793

File Description	Documents
Any additional information	No File Uploaded
Number of students benefited 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 through appropriate committees

A. All of the above

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	No File Uploaded

5.2 - Student Progression**5.2.1 - Number of outgoing students who got placement during the year**

331

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

19

File Description	Documents
Upload supporting data for students/alumni	View File
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

0

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

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

122

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

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

1. Department Advisory Committee (DAC): Velammal College of Engineering & Technology (Autonomous) has Department Advisory Committee in all departments which consists of active student members through which UG & PG curriculum is discussed and reviewed for betterment of advanced knowledge impartation

2. Class committee Meeting: All departments have six student active class committee members where every month progress in all courses are discussed regularly and feedback is given to Principal mam and Dean Academics.

3. Programme Assessment Committee (PAC): Academic experts from esteemed institutes, Industrial experts and students members actively discuss about advancement in curriculum with respect to industries

3. Department Associations: EEE Association, ECE Association, Mech Association, IT & CSE Association are there in which student members conduct various events like poster presentation, quiz competition and innovative project presentation etc.,

4. Velammal Renewable Energy club: Student members are active in Energy club awareness programme which brings energy saving awareness to all students

5. Programme Club: IT department Programme club in which IT students conduct various events to enhance programming skill among students

6. Literary club: Students are active in helping to develop communication skills among other students by conducting literary events

7. Quiz club: Students are active in conducting and participating in general quiz competition in various areas

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-5/5.3.2-2022-2023.pdf

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

13

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

The Necessity of Alumni Association:

The importance and need for alumni association evolved for needs from both the ends, i.e. academicians and professionals. Velammal Alumni Association has built living bridge between college life and career life, so that the fresher graduates are made proactive to face the current challenges of competitive professional world. The Alumni Association of Velammal College of Engineering and Technology, Madurai was formed on 29th May 2014, named as "VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY ALUMNI ASSOCIATION" in the presence of Dr. N.Suresh Kumar-Principal, Mr. Padmanathan, Coordinator of the Alumni Committee and other faculty members and many enthusiastic former students of the college.

OUR MISSION:

To re-unite in the nest from where we grew and flew off. To build a bridge between college life and career life, so as introduce present students to the professional world and to make them proactive to face the challenges that may emerge in their career path. To provide job opportunities to fresh bachelors through references of professionals.

To conduct orientation and training programs to students on various topics to enhance their skills.

To create awareness among students about the scope of their

subject in the professional world.

To provide a platform for students to develop their qualities.

Alumni Association coordinates and supports the following activities:

1. Annual Alumni Meet
2. Department level Alumni Interaction
3. Knowledge transfer
4. Placement for Final year students

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-5/5.4.1-2022-2023.pdf

5.4.2 - Alumni's financial contribution during the year E. <2 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

Vision

- To emerge and sustain as a center of excellence for technical and managerial education upholding social values.

Mission

Our aspirants are:

- Imparted with comprehensive, innovative, and value-based education.
- Exposed to technical, managerial and soft skill resources with emphasis on research and professionalism.
- Inculcated with the need for a disciplined, happy, married and peaceful life.

The nature of governance in VCET refers to the system and processes by which the institution is managed, administered, and regulated. It encompasses on decision-making, leadership, policies, and structures that guide the functioning of the institution.

Each department will have a Department Advisory Committee (DAC). Members of DAC are experts from industry and other reputed institutions. The process of the department initiating the framing the department vision, mission, and Program Specific Objective (PSO) was discussed and approved during the committee meeting. Also, the autonomy process of approving the syllabi and curriculum is done in Board of Studies (BoS) meeting of each department. Further, the Academic Council Meeting (ACM) is conducted for the whole college, inclusive of all departments. The Governing Council, besides being the supreme administrative authority of the college, shall execute additional functionalities by getting concern from state government nominees and UGC nominees.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://vcet.ac.in/vcetit/pdfs/HR%20POLICY_%2014.07.2023.pdf

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

Decentralization and participative management are the keys to the success of VCET. Decentralization is implemented in the college by distributing authority and decision making across various Deans rather than concentrating power on the top.

Professional growth, flexibility, and quick decision-making are guaranteed by doing this. Faculty members and staff at various levels have the opportunity to develop leadership skills and take ownership of their roles. Participative management fosters a sense of teamwork and shared responsibility, leading to more cohesive and motivated faculty members.

Fig 1. The organizational structure of the college comprises the Senior Principal, Principal, Deans, Heads of all departments (HoD), Administrative officers, and other supportive departments under the guidance of the honorable Chairman.

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	Nil

6.2 - Strategy Development and Deployment

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

The institution works and plans strategies towards implementing the vision through separate core areas, which are planned to be headed by corresponding deans.

The core areas are:

Academics

Dean (Academics) focus on the smooth conduct of academic activities through TLP.

Perspective Plan for Teaching and Learning Process

- Curriculum Design and Flexibility
- Outcome-Based Education (OBE)
- Innovative Teaching Methods
- Continuous Assessment
- Choice-Based Credit System (CBCS)
- Interdisciplinary Learning

Student Affair

Dean (Student Affair) monitors student activities, disciplinary measures, and counseling procedures.

Perspective Plan in Student Affairs

- Discipline maintenance
- Student participation in events
- Organizing events for students
- Student Awards

Research and Development

Dean (Research and Development) implements a research culture in VCET.

Perspective Plan in Research and Development

- Publications in Scopus indexed and Sci journal
- Improving the citation of the faculty members.
- Receiving a research grant.
- Planning for a utility patent.

Planning and Development

Dean (Planning and Development) focuses on infrastructure, NIRF ranking of the college.

Perspective Plan in Planning and Development

- Improvising infrastructure
- NIRF ranking

Industry Institute Interaction

Dean (Industry Institute Interaction) maintains cardinal relationship with various industries and many employers to enhance placement, internship support, and training activities

Perspective Plan in Industry Institute Interaction

1. Signing a MoU with the industry.
2. Exclusive Placement Training

3. Internship**4. Placement Drive**

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 following are the committees and members constituted for the management of

different institutional activities:

1. Board of Trustees: Chairman, CEO, Trustees
2. Governing Council: Industrialist, Academician and Advisor
3. Academic Council: Academician and Industrialist
4. Budget and Finance Committee: Senior faculty and coordinators
5. Purchase Committee: Senior faculty and group of members
6. Hostel Maintenance and Canteen Committee: Hostel warden and faculty members
7. Awards Committee: Senior Faculty and coordinators
8. Faculty Development Committee: Principal, Dean(Academics) and coordinators
9. Library Committee: Librarian and coordinators
10. Disciplinary/ Anti-ragging Committee: Team of Teaching and non-teaching members
11. Gender Issue Cell: A senior faculty and coordinators.

12. Newsletter/ College Calendar /Prospectus committee:
Coordinators and faculty

13. Complaints cum Redressal Committee: Dean (Academics)and coordinators

14. Transport Committee: Senior faculty and team members

15. Internet Committee: Dean (Planning & Development) and system administrative team

16. Placement Committee: Dean (Industry interaction), Placement coordinator and team members

17. Research Committee: Dean (Research & Development) and coordinators

18. Sports Council: Physical director and team members

19. Extra and Co- curricular Committee: Dean (Student affairs) & Committee coordinators

File Description	Documents
Paste link to Organogram on the institution webpage	https://vcet.ac.in/vcetit/pdfs/HR%20POLICY_%2014.07.2023.pdf
Upload any additional information	View File
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination **A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
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 for teaching and non-teaching staff are as follows,

For Teaching Staff:

- Encourage and support ongoing professional development through workshops, conferences, and training programs. Continuous support towards research through funding for international conference. Faculty members will be provided with sufficient on duty permission to deliver lecture at other institutions. . Permission for visits to industry and higher learning institutes.
- Ensure that teaching staff receives competitive salaries based on qualifications and experience.
- Provide benefits such as insurance cover, maternity leave etc.
- Implement policies that promote a healthy work-life balance, including reasonable working hours and vacation time. Consider flexible scheduling options or remote work arrangements when possible.
- Recognize and appreciate the achievements and contributions of teaching staff through awards, acknowledgments, or public recognition.

For Non-Teaching Staff:

- Provide fair and competitive salaries for non-teaching staff, considering their skills, experience, and responsibilities.
- Offer job security and opportunities for career

advancement through training, skill development, and promotions.

- Invest in training programs to enhance the skills of non-teaching staff and improve their job performance.
- Fee concession given in velammal group of school, college

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vcet.ac.in/vcetit/pdfs/Handbook/VCET%20Handbook%202022-2023.pdf

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

6

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

4

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.)

File Description	Documents
Summary of the IQAC report	No File Uploaded
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

As a fully private institution, the organization places great emphasis on rigorous and meticulous financial auditing. An external auditor, appointed annually, diligently reviews the accounts and prepares duly signed financial statements. To ensure financial compliance, the institution has instituted a comprehensive mechanism for both internal and external audits of financial transactions on an annual basis.

Internally, the financial committee of the institution conducts semi-annual audits. This committee meticulously examines income and expenditure details, submitting a compliance report to the institution's management through the principal. Externally, an independent agency conducts an audit once a year.

To monitor the effective and efficient use of financial resources, the institution follows a structured process. At the start of each financial year, the principal submits a budget allocation proposal to the management, taking into account recommendations from department heads. The college budget encompasses recurring expenses such as salaries, electricity, internet charges, maintenance costs, stationery, and other consumable charges, as well as non-recurring expenses like the purchase of lab equipment, furniture, and other development expenses. The accounts department oversees and monitors expenses according to the budget set by the management, including the calculation of depreciation costs for items purchased in previous years.

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

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)

22.9

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

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

Mobilization of funds

- College fees for students
- Sponsored funded projects from government bodies/organization.
- Funded Faculty Development Program (FDP), STTPs, Workshops and Seminars.
- Sanction of Modrob scheme from AICTE for setting up of Laboratory.
- Fund generated through consultancy work.
- Alumni contribution towards welfare of the college.
- Industry supported laboratory through signing MoUs.

Utilization of Resources

- Salary for faculty members and non-teaching staff members
- Infrastructure development for academic, research and other activities to held in the college.
- Procurement of Hardware and Software licensing.
- Developing library infrastructure and procurement of books for new courses.
- Expenses for conduct of examination and valuation process.
- Remuneration for resource person visiting the college for

seminars and workshops.

- Financial support for filing patents.
- Financial assistance for attending conferences.

File Description	Documents
Upload any additional information	No File Uploaded
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 Cell of the college works towards improving and maintaining the quality of education, identifying and suggesting new ways of using teaching aids, developing suitable infrastructure, and offering suggestions for the new self-finance courses. IQAC is an effective and efficient internal coordinating and monitoring mechanism. The IQAC plays a vital role in maintaining and enhancing the quality of the institution and suggests quality enhancement measures to be adopted. The IQAC meets every quarterly to plan, direct, implement and evaluate the teaching, research, and publication activities in the College. The sub-committees dealing with various activities and departments implement the IQAC guidelines and report the feedback.

Key activities:

- NBA Accreditation for B.E. CIVIL, B.E. CSE., B.E. ECE, B.E. EEE, B.E. Mechanical, B.Tech. IT.
- New Courses are established. One UG Programme - B.Tech. Artificial Intelligence and Data Science and one PG Programme - Masters in Business Administration. Also, two new UG programmes are planned during this academic year namely B.Tech. Cyber Security and B.Tech. VLSI Design.
- All classrooms are equipped with LCD facility and Seminar halls of each department is equipped with Smart TV, e-podium, sliding and Pin-up boards, comfortable seating arrangements accommodating 100 students, Interactive TV for online access.

- IIC star ranking.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/viewmore.pdf

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

Programme Assessment Committee (PAC) Audit

PAC audit for each programme is conducted to monitor the following,

- Verify attainment of COs, POs and PSOs
- Deviation in attainment is recorded and corresponding recommendations will be provided to achieve attainment for the next batch.
- Course instructor is recommended to update the course plan according to the PAC recommendations.

Course file audit

Academic audit is conducted to verify the maintenance of course file and log record periodically.

- The Academics team of the College conducts Course File audit at every semester. The course file includes course contents, test question, question to CO mapping, scheme of evaluation, assignment questions, sample answer scripts, test performance analysis, course exit survey and CO attainment. Syllabus coverage, content delivery methods, quality of assessment and rubrics used in courses are audited. Comments and suggestions for improvement are provided for the course instructor.
- Question paper audit

The Controller of examinations office conducts question paper & answer script audit with external experts. Audit reports are submitted to respective Head of the Department for necessary actions.

- **Course exit survey - This survey is mandatory for each course at the end of the semester which delivers the core understanding of the course by every student attended the course. This is considered for calculating the attainment of the course.**

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	http://vcet.ac.in/vcetit/iqac.html
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	No File Uploaded
Upload any additional information	No File Uploaded

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

Velammal College of Engineering and Technology has a strong ethical work culture that is based on inclusivity. Safety, security, and well-being, along with gender equity and a friendly working atmosphere, are the issues of prime concern to VCET.

Gender sensitivity is an inherent value in the cultural ethos of the institute and its neighboring community, as is evident by the following facilities:

- Well-trained and vigilant women wardens and assistant wardens were appointed to the girls hostel on campus.
- Awareness campaigns on women's safety and gender sensitivity through street plays, rallies, and camps by NSS student volunteers.
- Security guards are deployed at the main gate, and students with valid identity cards are allowed into the campus.
- The college campus is under surveillance, with CC cameras installed at prominent locations.
- The Internal Complaints Committee (ICC) interacts regularly with the girl students and resolves the issues addressed by them.
- The college ensures social security through the Anti-Ragging Committee and the Grievance Redressal Committee.
- A complaint box is arranged to receive grievances or suggestions from the students, which are addressed by respective committees.
- Emergency contact numbers are displayed in prominent places in campus. The disciplinary committee curbs indiscipline in the campus.

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	No File Uploaded

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)

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

There are different types of waste disposed of in the college for which a proper system is functioning. The following waste is being disposed of by the college:

E-Waste Management

Software upgrades are done as and when required. Low-end computers in working condition are given to schools for reuse purposes. UPS batteries are recharged, exchanged, or repaired by the suppliers. The minor repairs are set right by the staff and lab technicians; and the major repairs, done by the professional technicians, are reused.

Waste Recycling System

1. The STP supplies water for our extensive lawn, trees, and other plants on campus. Waste segregation is encouraged in classrooms.
2. Segregation of wet and dry waste was initiated.
3. Awareness program on water conservation.
4. Awareness program on energy conservation.

E-medical Waste Management

This is not applicable for our institution

Hazardous chemicals and radioactive waste management

This is not applicable for our institution

Liquid Waste Management

The waste water is carried out through the pipeline, and this is carried out to the tree plantation.

Biomedical Waste Management

This is not applicable for our institution

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
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

B. Any 3 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:

C. Any 2 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:

C. Any 2 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	View File
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

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.

B. Any 3 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 college institutionalized inclusiveness by extending equitable access to students from socially disadvantaged communities and women through the following means:.

Priority in admission goes to socially and economically weaker sections and women. The impact of this inclusive policy is observable in the percentage of admissions of students from Scheduled Caste Communities and Most Backward Communities (MBC).

Many students who hail from the neighboring villages not only belong to socially disadvantaged communities but also to economically poor backgrounds and mainly depend on government scholarships. Scholarships of around 20L are provided to the economically weaker students.

The college also organizes various cultural programs to

celebrate the cultural diversity of India. Students from various regional and cultural backgrounds participate in such programs and present their regional or cultural folk songs and dances. These cultural events and sports are organized at different levels and departments with four different group names - Red cherries, yellow plums, green grapes, and blueberries.

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:

S. No

Title of the Programme /Activity

Date

Number of Participants

1

Independence Day Celebration

12.08.2022

150

2

Republic Day Celebration

26.02.2023

133

3

Entrepreneurship Awareness Camp

25.08.2022

45

4

Entrepreneurship Awareness Programme

21.09.2022

55

5

Entrepreneurship and Startup

21.10.2022

50

6

Entrepreneurship Awareness Programme

17.11.2022

62

7

Skill Development Programme on

Repair and Maintenance of Power Supply, Inverter and UPS

02.12.2022

to 11.01.2023

30

8

Business Plan Preparation

19.01.2023

30

9

Promoting Startup Ideas

04.02.2023

62

10

Naanum Ambani Avan

17.02.2023

50

11

Training program on Promotion of Energy Audit and Conservation of Energy

14-03-2023 to

16-03-2023

60

12

Role of Entrepreneurship Development Cell (EDC)

12.04.2023

50

13

The Age of Intelligence

18.05.2023

62

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

C. Any 2 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

The institution celebrates and organizes national and international commemorative days, events, and festivals.

National festivals play an important role in planting the seeds of nationalism and patriotism among the people of India. Our institution celebrates these events with great enthusiasm to commemorate the ideology of nationalism and to pay tribute to our great national leaders. The faculty, staff, and students of the institution all come together under one umbrella to celebrate these occasions and spread the message of unity, peace, love, and happiness throughout.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

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

Two of the Best Practices are

1. Fostering a Dynamic Research Ecosystem
2. Placement and Training

1. Fostering a Dynamic Research Ecosystem

Objectives of the Practice:

- To motivate the faculty and students to do research and to present or publish the research paper at reputed journals and conferences.
- To identify thrust areas and know the individual research interest in supporting infrastructure, considering the thrust area and the state of the art.
- To create awareness about various funding schemes of the government, AICTE, DST, DRDO, etc., and motivate the faculty to prepare good research proposals.
- To create awareness about patents and innovative

intellectual rights.

- To develop a research culture in the Institute and lifelong learning skills among students / faculty

2. Placement & Training

Objectives of the Practice:

- To set up training infrastructure for conducting value added training programs and enhancing the employability of students.
- To contest the best practices in conducting and coordinating the campus placement process for the industries in the institution.
- To achieve the services of competent training agencies to train the students in soft skills and personality development programmes.

File Description	Documents
Best practices in the Institutional website	https://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-7/7.2-2022-2023.pdf
Any other relevant information	http://vcet.ac.in/vcetit/placestats.html

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)

Vision of the Institution:

To emerge and sustain as a center of excellence for technical and managerial education upholding social values

A measure of sustainability as a center of excellence is to impart education that empowers the students to become

employable/opt for higher studies in reputed institutions/explore avenues for entrepreneurship. The college, in keeping with its vision and mission, ensures that students develop the confidence to fit into more than one of the above three categories.

The Training and Placement Cell every year begins the training program at the beginning of the III year, and the students are given intensive training in taking aptitude tests in logical reasoning, and enhancing their soft skills by facing interviews with both technical and HR in multiple sessions. As a result, the college is justifiably proud of its consistent 80-85 placements each year in highly reputed MNCs.

Preparing the students for the GATE examination is an integral part of every department's activity, and students are encouraged to sit for GATE exams to enable them to qualify for higher studies in reputed institutions and also boost the opportunity for employability in PSUs.

The College places a strong emphasis on evolving students to be employers rather than employees and the College has set up a DST sponsored IEDC (Innovation and Entrepreneurship Development Centre), which caters to the development of budding entrepreneurs by regularly organizing Entrepreneurship Development programs for students.

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.

Velammal College of Engineering and Technology (VCET) was established in the year 2007, affiliated to Anna University, Chennai. VCET obtained UGC Autonomous in the year 2021. Curricula is designed by collecting feedback from internal and external stakeholders (Course instructor, Employer, Alumni, Parent) ensuring guideline of affiliating University and AICTE model curriculum and Graduate Attributes of NBA, in tune with the vision and mission of the Institution

Courses related to the environment, sustainability, Ethics, Human values and rights, solid waste management, energy conservation, etc. were designed to meet local, national, and global development needs Civil Students have a option to select this courses from other department electives. To list a few

21CH103 Environmental Science

21PCE07 Green Building Concepts

21PME14 Renewable Energy Technologies

21PME39 Professional Ethics

21PCE15 Industrial waste water management

21PCE16 Air and Noise Pollution Control Engineering

21PCE17 Solid and Hazardous Waste Management

21PCE18 Environmental Impact Assessment

Course Outcomes (COs) for every course are defined and mapped with Program Outcomes (POs) and Program Specific Outcomes (PSOs). In addition, assessment tools to measure COs, the

strength of CO-PO mapping, and CO-PSO mapping were also designed for effective assessment of the course curriculum.

Curricula are reviewed by the Board of Studies members and approved by Academic Council. Development of new courses and advancement in existing courses adhering to AICTE model curricula are done every year based on the needs and suggestions of various stakeholders.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	Nil

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

2

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

179

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	
179	
File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
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	View File
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	
<p>The institute ensures integration of relevant cross cutting issues in the curriculam of the programme offered.</p> <p>Profesional Ethics, Environmental science, Constitution of India aremandatory course in all undergraduate programmes. Courses like disaster management, green computing, project management, Entrepreneur development are also offered to the students.</p> <p>Environmental science: The course encompasses all the aspects of the environment such as natural resources, biodiversity, pollution, alternate energy sources, and human intervention - causes and effects and social ethics. Apart from the mandatory course, an ECO club functions in the college; the</p>	

club enrolls members and carries out activities to create awareness of environmental conservation.

Gender cell:VCET facilitates a gender-sensitive and congenial campus environment so that anyone in the campus is not subjected to gender-specific discrimination. The cell takes care of the issues related to gender if any and also popularizes gender equality through programs like International Women's Day celebrations. Grievance Redressal Committee takes care of the suggestions and grievances of the students and staff at all levels of the college.

Professional Ethics Human values and ethics are important to cultivate value-based education for students. A course on Professional Ethics has been introduced. The curriculum also includes a mandatory course on Professional Communication, and Interpersonal Skills courses to develop human values and communication skills.

Content beyond the syllabus on cross-cutting technology is bridged through seminars, workshops, industrial visits, etc.

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

38

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

900

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

801

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	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

B. Feedback collected, analysed and action taken

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
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

632

File Description	Documents
Any additional information	View File
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)

270

File Description	Documents
Any additional information	View File
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.

Special Programs for First-year students

The first-year students are segregated into different sections based on their Higher Secondary group, medium of study and cutoff mark. To improve their learning ability, the orientation program is conducted even before the beginning of the semester. This program includes:

- Skill enhancement through Advanced Learning

- Outline of outcome-based education
- Career Guidance
- Design thinking
- HELM-Heartfulness Enabled Leadership Mastery Program-conducted by External team
- Personality Development
- Soft skill training

Programs for Slow Learners

The following initiatives are taken to improve slow learners' learning ability:

- Coaching classes beyond working hours
- Mentoring/Counseling: The faculty is assigned with 15-20 students and they are regularly counseling their wards for academic accomplishments.
- Many motivational talks are arranged through the Institution Innovation Council (IIC)
- They are involved in Department Association and IETE activities to improve their administrative skills.

Step-ups for Advanced Learners

- Fast learners are allowed to take up fast-track courses.
- The MoU-signed industries are offering many internships.
- Students interested in projects are identified and motivated to participate in Contests like Smart India Hackathon, 3-Idiots, etc..
- Interested students are given a module from funded projects as their final year projects so that they work

along with the investigators.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-2/2.2.1-2022-2023.pdf

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
14/03/2023	2063	133

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:

Experiential learning:

- The curriculum is crafted to keep students updated with the latest knowledge, incorporating industry-related courses. Students can select their open elective and professional elective courses.
- To align the students with the industry developments, the students are made to go for internships at a minimum duration of 15 days and Industrial Visits for 1 or 2 days.
- Innovative Assignments & Mini project

The implementation of the concept improves their experiential

learning, and this is done in groups as mini projects where they are asked to do small projects, real-time implementations, and submit a report for the same.

Participative learning:

- Students join with faculty members in executing projects funded by industries and government agencies thereby providing an opportunity to understand higher-level concepts in their domains and get hands-on experience in handling equipment, instruments, and machines.
- Handling the classes to the junior students by seniors, mentoring by alumni, laboratory courses, preparation for competitive examinations, wherever required.

Problem Solving Methodologies:

- Offering courses that lead to diagnosing a problem and providing solutions.
- A tutorial component is introduced in the analytical courses, wherever required.
- Designing and developing new products to participate in various competitions.
- Pre-placement internships in companies help to solve problems and Execute capstone projects.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQA R5/2022-23/Criteria-2/2.3.1-2022-2023.p df

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

Process:

- Classrooms are equipped with projectors to enable the faculty members to handle their classes effectively.
- The Central Library consists of subscriptions of IEEE journals which helps to access the online research papers effectively.
- Google Classrooms are used to post and share their online resources and also to teach effectively.
- Online tools like Quizz, educandy, Circuit Maker, Online Exam Maker, Exam View, etc.. Are used by the subject-handling staff members to deliver the contents and assess them.
- Innovative Assignments-More online assignments and tasks are given to students for better learning.
- NPTEL lectures are used to explain concepts.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-2/2.3.2-2022-2023.pdf
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****127**

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

Preparation of Academic Calendar:

Before the start of an academic year, the institution prepares the academic calendar in coordination with the Senior Principal, Principal, Deans, Heads of Departments, and various Club in-charges. It has the details of the commencement of classes, Internal Assessment Tests (IATs), seminars, workshops, and other events organized by each department. It is also being disseminated through the college website. The planned schedule is followed systematically and monitored by the HODs, class in-charges, and club in-charges.

Preparation of Teaching Plan:

Based on the academic calendar, the course instructor prepares a course plan that includes the number of hours, reference books, and the pedagogical techniques required to address a topic. Laboratory manuals are prepared in advance which gives a detailed description of the experiments.

Adherence to the Teaching Plan:

Based on the academic calendar, IATs are conducted and the marks are uploaded to the Student Information System (SIS) software by the concerned course instructor. The Academic Audit Committee verifies the course file whether activities are carried out as per the teaching plan or not at the end of the academic year.

Adherence to the Academic Events:

The events to be conducted are very well planned before the beginning of the semester. If there is any deviation, it is properly justified and minutes are recorded.

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

133

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

53

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	View File

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

819

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

70

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	View File

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

193

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	View File

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

VCET has adopted summative assessments namely Continuous Internal Assessment Tests. By this, the performance of the student is evaluated by three internal assessment tests for theory courses and one model examination for the practical courses.

Process for Internal semester Question paper setting & Evaluation and Effective Process Implementation

The internal tests are conducted twice in a semester and one model exam is conducted at the end of the semester. Based on the portions, of Bloom's taxonomy and framed COs the question bank is prepared for each course. Previous year's University questions and GATE questions are also taken into account while preparing the question bank. The prepared question bank is verified by the Course Coordinator, the module coordinator, and then by the HOD. Question paper is chosen at random in the ratio 1:3 for each by the COE.

VCET has the provision of a Student Information System (SIS)

portal. The marks of Internal Assessments Test, Assignment, and hourly attendance are entered in SIS by our faculty members. Hence, the calculation of internal marks and consolidated attendance is performed directly by SIS. For project work, three reviews are conducted.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-2/2.5.3-2022-2023.pdf

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

The institution follows "Outcome Based Education" and imparts education through a student-centric approach. 12 Program Outcomes (POs), and 2 Programs Specific Outcomes (PSOs) are formulated for all the programs. The curriculum composition is carefully designed to attain the defined POs and PSOs.

The Course Outcomes (COs) are formulated for all the courses and approved by the Board of Studies. The COs of each course are discussed with the students at the beginning of each unit by the course faculty. Also, the COs are mentioned in the continuous internal assessment test question paper along with their knowledge level for each question.

The Vision, Mission, POs, and PSOs are published on the college websites. The dissemination of the same to the stakeholders such as faculty, students, alumni, parents, and employers is done as mentioned below:

Displayed on the College Website

Discussion in the Induction Programme

Professional Body meetings

Library

Displayed in the department prominent places like:

HOD Room

Classrooms

Laboratories

Display Boards

Faculty Cabins

Seminar Hall

All brochures of FDPs/Seminars/ Conferences

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://vcet.ac.in/vcetit/curriculum.html

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

The assessment tools are selected based on the nature of the courses (e.g., Theory, Lab, and Project) and the performance of the students is evaluated for each CO.

The overall CO attainment has been calculated by considering 60% of CO attainment obtained using internal assessments and 40% of CO attainment obtained using university exams.

The attainment of CO against the target is checked; the level of attainment and the level of competency is increased for the next academic year if the target is achieved.

Otherwise, a Program Assessment Committee meeting is conducted to discuss the necessity of amendments in the content delivery method, content beyond the syllabus, and assessment method by considering the course evaluation and

instructor report to achieve the CO attainment against the target.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-2/2.6.2-2022-2023.pdf

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

469

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	View File
Paste link for the annual report	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-2/2.6.3-2022-2023.pdf

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://acrobat.adobe.com/id/urn:aaid:sc:AP:5921466a-c4ba-4e8c-83b7-fd502a437b5e>

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

Research Policy

Velammal College of Engineering and Technology (VCET), Madurai, is committed to creating a supportive and innovative environment for its faculty and students, wherein research and innovation will flourish. VCET emphasizes research ethics and integrity, along with the responsible conduct of research and protection of intellectual property rights. The researcher will abide by the VCET Research Policy and will also be responsible for adhering to the research practices prescribed by UGC and Anna University, Chennai.

Candidates shall publish their research articles in reputed peer reviewed journals/conferences after obtaining formal permission from the faculty guide.

Candidates shall be motivated to translate their research products into marketable products following VCET Innovation and Startup Policy.

2. Plagiarism Check

(i) All the Anna University recognized supervisors shall access to the Plagiarism check software provided by Anna University, Chennai and permit their scholars to publish it in the journals/conferences.

(ii) All the research scholars should enclose a copy of the plagiarism check report in their thesis reports.

(iii) Maximum of 20% similarity is allowed for Ph.D. thesis, synopsis, and M.E. thesis reports.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	http://www.vcet.ac.in/vcetit/pdfs/Research/Research%20Policy
Any additional information	View File

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

1

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)

173.57

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	View File

3.2.2 - Number of teachers having research projects during the year

9

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://www.vcet.ac.in/vcetit/research.html
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	View File
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

4

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	http://www.vcet.ac.in/vcetit/research.html
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 has a well-balanced eco-system for promoting students' innovation with the help of scholarly faculty and excellent infrastructure. Students are given the opportunity to work with the faculty on live projects and research. This results in students participation in research publications, patents and products. The Centre for Innovation and Entrepreneurship at VCET aims at establishing Innovation Hub by building an eco-system through industry partnerships. The college nurtures startups from the ideation stage by conducting boot camps, entrepreneurship awareness camps, industrial visits, hackathons, and technical talks. It provides them access to partners and investors with the Help of TN Startup Initiative of the Tamil Nadu Government. The Cell also assists the startups in gaining a value proposition by providing mentor support, connecting them with Government organizations like Entrepreneurship Development Institute of India (EDII), Ministry of Micro, Small & Medium Enterprises (MSME). The college is recognized as host institution (HI)

for setting up Business incubator by MSME.

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

11

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

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

B. Any 3 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	View File
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

56

File Description	Documents
URL to the research page on HEI website	<p><u>Research Policy Velammal College of Engineering and Technology (VCET), Madurai is committed to create a supportive and innovative environment for its faculty and students, wherein research and innovation will flourish. VCET emphasizes research ethics and integrity along with the responsible conduct of research and protection of intellectual property rights. The researcher will abide by the VCET Research policy and are also responsible to adhere to the research practices prescribed by UGC and Anna University, Chennai. Vision Mission ? To develop a sustainable research culture for the benefit of the society ? To develop innovative solutions to help the society ? To continuously engage with stakeholders to implement such solutions ? To establish centers of excellence in applied and innovative research in the respective field 1. Academic Research 1.1 Norms for Doctor of Philosophy (Ph.D.) and Master of Science (M.S.) by research. (i) Admission and other requirements for carryout the research as prescribed by the Anna University, Chennai/University in which registered for Ph.D. (ii) Faculty should complete one year of service at VCET before enrolling for the Ph.D. under part time. (iii) Faculty after the award of Ph.D., shall get the supervisor recognition from the Anna University within 2 years. Number</u></p>

of scholars guided by the supervisor, can be limited by VCET based on the availability of the infrastructure facility. (iv) External faculty shall register for their Ph.D. under the supervision of VCET faculty after getting due approval from the Principal, VCET. (v) Full time PhD scholars shall assist the supervisor/department in research and development activities.

1.2 Norms for Master of Engineering (M.E./M.Tech) and Bachelor of Engineering (B.E./B.Tech)

(i) As prescribed by the VCET (R 2021) or Anna University Regulations. (ii) Candidates shall be encouraged to carry out interdisciplinary research projects as per the guidelines provided in the VCET R-2021 regulations(12.4) (iii) Candidate shall publish their research articles in reputed peer reviewed journals/conferences after obtaining formal permission from the faculty guide. (iv) Candidates shall be motivated to translate their research products into marketable products following VCET Innovation and Startup Policy.

2. Plagiarism Check (i) All the Anna University recognized supervisors shall access to the Plagiarism check software provided by Anna University, Chennai and permit their scholars to publish it in the journals/conferences. (ii) All the research scholars should enclose a copy of the plagiarism check report in their thesis reports. (iii) Maximum of 20% similarity is allowed for Ph.D. thesis, synopsis, and M.E. thesis reports.

3. Publications (i) Faculty must present/publish two papers per year in SCI/Scopus/WoS indexed journals or conferences. (ii) Faculty shall file/publish one patent in every two years. (iii) VCET shall reward the faculty members who present/publish their research articles in the

SCI/Scopus/WoS indexed journals/conferences leading to the better NIRF and other ranking frameworks. a) For joint publication by faculty, 0.5 credit(in the case of two authors) and 0.3 credit(in the case of three authors)shall be awarded. (iv) Each department shall constitute a research board as found in Figure 1 to facilitate faculty and student publications in the reputed journals/conferences. (v) Research Board is responsible for ensuring quality publications and shall recommend for the award of incentives and weightage in the Faculty Performance Appraisal System. (vi) Research board shall prepare and update the h-index and i-10 index of the respective department in the college in the website yearly once and ensure that respective faculty's Google scholar, Scopus and Vidwan accounts updated continuously. (vii) Disseminate the research incentives details in the college website then and there.

Principal HoD Subject Expert (Internal) Subject Expert (External if reqd.) Dean (R&D) Figure 1 Research Board -Publications (Department level) 4.

Sponsored research (i) Faculty must submit one research proposal per year as per the VCET- HR Policy, either as Principal Investigator (PI) or Co - Principal Investigator (Co-PI). (ii) Every faculty shall apply for the funding support from the Government/Research organizations' call for research proposals and carry out sponsored/collaborative research. For AP - Either PI or Co - PI. For Asso. Prof. - As Principal Investigator. For Professor - As Principal Investigator. (iii) Each department shall constitute a research board as found in figure 2 to facilitate faculty towards

submission of winnable project proposals to the Government/Research Institutions. (iv) Research board shall advise the faculty on the nascent fields of research to submit project proposals. Principal HoD Subject Expert (Internal) Subject Expert (External) review 2 Dean (R&D) Figure 2- Research Board-Sponsored research (Department level) (v) PI and Co-PIs are responsible for carrying out the research as per the funding agency requirements. (vi) PI shall submit the project completion report as per the funding agency requirements. (vii) PI and Co-PIs shall publish their innovations as Patents and a final report indicating the contribution to the society should be submitted to the VCET. (viii) Research board shall recommend the PI and Co-PIs for incentive scheme as per the VCET-HR Policy after the successful completion of the sponsored research. Funded Projects 1 % of the sanctioned amount Maximum of Rs. 50,000/- Single PI- 80% PI - 50%, Co-PI - 30% Supporting Staff - 20% Consultancy Projects 60% to the faculty 40% to the institution Maximum of Rs. 10,000/- Patents (Granted) Rs. 10,000/- To be shared by all the faculty (VCET affiliation must be present in the patent application) (ix) Research board shall be responsible for periodic updation of their R&D details in the VCET website and in NBA, NAAC, AICTE information portal. (x) Research board shall prepare department wise research bulletin and disseminate their research details to their stakeholders once in a year. (xi) Research board shall ensure that the completed funded projects are widely covered in the press, social media. (xii) Research board shall encourage the PI and CoPIs to submit the completed projects for

next level to the research institutions. 5. Research Program organization (i) Department shall organize one Internal Conference in every two years. a) Key note speakers, Editorial board members and advisory board members of the conference shall be invited from leading organizations and institutions after the due approval from the Management b) Organizers shall conduct the conference as per the IEEE/ASME standard and shall ensure that all the presentations are published as Scopus/WoS indexed proceedings. c) Organizers shall submit seminar grant proposals for funding support from leading R&D organizations (ii) Department shall organize an exclusive project competition for the students and the best projects shall be ranked based on the Technology Readiness Level (TRL). (iii) Department shall arrange for special lectures/workshops, training programs and sensitization programs to promote quality research culture among faculty and students. (iv) Department shall ensure enthusiastic participation of their students in all the national and international level project competitions like Smart India Hackathon, MSME Idea Hackathon, Google coding contest, VCET - 3 Idiots, ISTE-Best Project awards, etc. 6. Collaboration and partnerships (i) Department shall initiate to sign Memorandum of Understanding (MoU) with leading Industries/Institutions to foster research culture among the faculty and students. (ii) Department shall make of use of the various research facility available with VCET like MoUs signed with Industries, AICTE Idea Lab, Center for Innovation and Business Incubator (CIPD-BI), IEDC Cell, Idea Factory for their research

	<p><u>and consultancy work. (iii) Department shall look for avenue in other departments and submit multi-disciplinary project proposals to the funding agencies. (iv) Department faculty shall visit industries and research institutions of national repute like CSIR, CECRI, DRDO, ISRO etc. during the vacation period and update their research aptitude. (v) Department research board shall keep abreast of other department research activities and ensure possible mutual citations in their research publications. (vi) Department shall sign MoUs with foreign universities and research institutions to enable the B.E./B.Tech. and M.E./M.Tech. students to do their internship/research projects in institutions abroad. (vii) Department shall always look for opportunity to submit their joint research proposals in India and other countries whenever there is a call for research proposals. a) Department shall plan for one international workshop/seminar every year with experts from foreign institutions. b) Department shall establish good rapport with the leading foreign universities via joint publications. c) As per the funding agency guidelines, India-abroad projects shall be executed after getting due permission from the Management.</u></p>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File
3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year	
69	

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

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

56

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-3/3.4.4-2022-2023.pdf

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

3200

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

50

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)

0

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	No File Uploaded
Any additional information	No File Uploaded

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	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

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

Velammal College of Engineering and Technology, Madurai is actively and aggressively organizing and participating in various extension activities and outreach program to promote the Institute-Neighbourhood community to sensitize the students towards community needs. The Institute believes in not only promoting the societal and community activities to sensitize students but also leading in shaping the students and faculty and staff into responsible citizens of the nation and imparting all round development of students in each vertical. Various Society Committee team members and organizers inculcate this awareness and goodness through various program like Cleanliness, Green environment & tree plantation, Gender sensitization, Hygiene and Environment Awareness, Plantation drive, Mental health awareness, Feed animal drive for stray cows, National Youth Day celebration, Road safety awareness campaign, NSS Day celebrations, Blood donation camps, Eco Club activities, Women Development and Empowerment activities, International Disability day activities etc. All these mentioned activities have a positive impact on the students, and they developed student community relationships, leadership skills, and self-confidence of students. It also helped in cultivating the hidden personality of students and creating awareness among students. Apart from this the significance of clean surroundings, hygiene, sanitation in the neighbourhood, garbage disposal, and sensitizing the community at large to these vital issues. All these initiatives have gone a long way in the holistic development personality of the participants of these programs.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-3/3.6.1-2022-2023.pdf

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

0

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

32

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

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

150

File Description	Documents
Reports of the events	View File
Any additional information	View File

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

261

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)

35

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	View File

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 adequate physical and academic facilities required as per University Grant Commission guidelines to run the different programs.

DEPT

No. of Class Rooms

No. of Labs+ Drawing Hall

Smart Class Room/Tutorial/Seminar Hall

CIVIL

4

8

1

CSE

8

4

2

ECE

9

6

1

EEE

4

10

1

IT

7

5

1

MECH

5

10

1

Classrooms:

Number of Classrooms: 37

- Equipped with Projector, Podium, Fan, Light, Glass board with good ambience, adequate lighting and good ventilation.
- Class room size is equal to or more than that given in UGC norms.
- Wi-Fi enabled to implement Active Learning strategies

Number of Tutorial Halls: 7

- Equipped with LCD Projector and Wi-fi

Number of Laboratories: 43

- All laboratories are well equipped with state-of-the-art equipment and facilities for conducting practical classes and for technology learning & training as part of teaching content beyond the syllabus.
- Labs have sufficient licensed software and open-source tools to cater to the requirements of curriculum & industry enabled teaching and Research

Computing Facility:

- Internet facilities are available on the whole campus, including labs, classrooms, library, offices of all departments, and hostels. The entire campus is Wi-Fi enabled, with 24/7 internet facilities for students and faculty.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQA/R5/2022-23/Criteria-4/4.1.1-2022-2023.pdf

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 institute provides ample opportunities for the overall development of the students through participation in co-curricular activities and extracurricular activities. Outdoor and indoor sports are encouraged among students to groom them with qualities like leadership, team spirit and competitiveness. Our students regularly participate in Anna University Tournaments, Association Tournaments, and Invitation Tournaments and bring laurels to the institution.

Sports Facilities

1 Play Field =Total area 3 Acres

2 Outdoor Sports & games

Basketball Court 1 No -15m X 28m

Kabaddi Court 2 Nos -13m X 10m

Volleyball Court 2 Nos -18m X 9m

Tennis Court 2 Nos 2 - 3.77m X 10.97m

Handball Court 1No -40m X 20m

Ball Badminton 2 Nos -24m X 12m

Badminton Court 2 Nos -13.40m X 6.10m

Kho - Kho Court 1 No - 19m X 30m

Track & Field Non - Standard 200 Mts

Long Jump Pit 1 No -3m X 9m

3 Indoor Sports & Games

Table Tennis 3 Board 30m X 30m

Chess 15 Board Standard 4

Gymnasium 11m X 8.50m

Auditorium:

An Institute has an auditorium with good acoustics. There is a speaker stand and a few chairs for the presiding officer and others. There is a mike and speakers in the hall. The hall was constructed in such a way that the speaker's voice is clearly heard in the entire hall without strain or echoes. The acoustics and the appearance of the hall can be improved using appropriate special plaster, curtains, wall hangings and absorbent ceilings. Adequate facilities of flood light and spot light should be available.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AOR5/2022-23/Criteria-4/4.1.2-2022-2023.pdf

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities**44**

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)

248.146

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)

Library Automation

The Library is fully automated using the software "AUTOLIB" - multi user LAN version 5.1 with WEB OPAC. Our college library is fully automated from the academic year 2009-2010.

Library Automation Software contains various modules that are cataloguing, reports, acquisition, circulation, OPAC, database management, periodicals and many more which helps in the smooth functioning of library management.

The purpose of library automation is to satisfy user needs in the changed information scenario. As the computer can be used to perform the various activities of the library, library automation can serve as a remedy to all the existing problems of libraries.

OPAC

Users can access the Book availability and other resources' information (CD-ROM, Back Volumes, and Projects) with the help of Online Public Access Catalogue. Using OPAC, User Can Search the availability of books based on the title, author and accession number.

Three systems are dedicated for OPAC in the library.

Using Web OPAC, users can access their Personal transaction information (issue/return of Books).

OPAC can be accessed throughout the campus through an IP address and also through the college website.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-4/4.2.1-2022-2023.pdf

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	View File

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

44.66940

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

61.78

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 a high-speed campus-wide network with 980 systems. Labs with PC's in all the departments give ready access to computing resources, services software and applications providing specific teaching/learning needs of the department.

Internet Facility with one leased line, from Airtel with 300 Mbps and 15 mbps for RF. The Internet Gateway comprising a Web Server, Symantec Endpoint Protection 14.0 ,Firewall protection through SOPHOS XG 230 Xtreme Protection UTM, D'Link switch and other networking components have been provided for an efficient and secure LAN.

The Main Computer Center has multiple servers namely: Windows server, Linux server, CAD/CAE server, Oracle database server, LMS server(Moodle), NPTEL Server. All the servers can be accessed across the campus through LAN.The details of major IT facilities updated in the academic year 2022- 2023 are enclosed in the attachment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-4/4.3.1-2022-2023.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2038	883

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

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	E. None of the above
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File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

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)

248.14620

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, there are well established systems and procedures for maintaining and utilizing physical, academic and support facilities. All facilities are regularly updated and maintained by the assigned faculty.

Infrastructure Facilities:

Infrastructure facilities are maintained by the team of civil engineers, plumbers, electricians, supervisors, gardeners and carpenters.

Utilization of Classrooms and Laboratories:

Utilization of classrooms, Laboratories and seminar halls are ensured before the commencement of semester. Entry is to be made in register for resource utilization.

Laboratory

All the laboratories are well maintained, lab in-charge and staff in-charge are taking care of maintenance works, which will be verified by the Head of the Department. Well established procedure is available for service and maintenance of lab equipment. Lab technician periodically maintains all the equipment's.

Library

The Central Library of the Institute is stacked with thousands of books and periodicals. These materials have been arranged neatly in the prescribed order. Annual stock verification is being carried out regularly and the annual stock of books, shelves, computers, and other belongings are monitored and maintained in the library stock register. It keeps track of new book requirements, renewal and

subscription of journals and book circulations.

Physical Education Department

The physical director is responsible to take care of sports equipments, facilities and regular sports activities. Qualified and experienced markers are available to maintain the sports field.

Other services/facilities on the campus include:

- Cafeteria facility
- Banking / ATM facility
- Stationary and Reprographic facilities
- Transport facilities
- Fully equipped medical centre with an Ambulance

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/NAAC/AQA R5/2022-23/Criteria-4/4.4.2-2022-2023.pdf

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

508

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

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

0

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

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	http://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-5/5.1.3-2022-2023.pdf
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

2793

File Description	Documents
Any additional information	No File Uploaded
Number of students benefited 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 through appropriate committees**

A. All of the above

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	No File Uploaded

5.2 - Student Progression

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

331

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

19	
File Description	Documents
Upload supporting data for students/alumni	View File
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	
0	
File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File
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	
122	
File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution	
<p>1.Department Advisory Committee (DAC):Velammal College of Engineering & Technology (Autonomous) has Department Advisory Committe in all departments which consists of active student members through which UG & PG curriculum is discussed and reviewed for betterment of advanced knowledge impartation</p>	

2. Class committee Meeting: All departments have six student active class committee members where every month progress in all courses are discussed regularly and feedback is given to Principal mam and Dean Academics.

3. Programme Assessment Committee (PAC): Academic experts from esteemed institutes, Industrial experts and students members actively discuss about advancement in curriculum with respect to industries

3. Department Associations: EEE Association, ECE Association, Mech Association, IT & CSE Association are there in which student members conduct various events like poster presentation, quiz competition and innovative project presentation etc.,

4. Velammal Renewable Energy club: Student members are active in Energy club awareness programme which brings energy saving awareness to all students

5. Programme Club: IT department Programme club in which IT students conduct various events to enhance program skill among students

6. Literary club: Students are active in helping to develop communication skills among other students by conducting literary events

7. Quiz club: Students are active in conducting and participating in general quiz competition in various areas

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-5/5.3.2-2022-2023.pdf

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

13

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

The Necessity of Alumni Association:

The importance and need for alumni association evolved for needs from both the ends, i.e. academicians and professionals. Velammal Alumni Association has built living bridge between college life and career life, so that the fresher graduates are made proactive to face the current challenges of competitive professional world. The Alumni Association of Velammal College of Engineering and Technology, Madurai was formed on 29th May 2014, named as "VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY ALUMNI ASSOCIATION" in the presence of Dr. N.Suresh Kumar- Principal, Mr. Padmanathan, Coordinator of the Alumni Committee and other faculty members and many enthusiastic former students of the college.

OUR MISSION:

To re-unite in the nest from where we grew and flew off. To build a bridge between college life and career life, so as introduce present students to the professional world and to make them proactive to face the challenges that may emerge in their career path. To provide job opportunities to fresh bachelors through references of professionals.

To conduct orientation and training programs to students on various topics to enhance their skills.

To create awareness among students about the scope of their subject in the professional world.

To provide a platform for students to develop their qualities.

Alumni Association coordinates and supports the following activities:

1. Annual Alumni Meet
2. Department level Alumni Interaction
3. Knowledge transfer
4. Placement for Final year students

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vcet.ac.in/vcetit/pdfs/NAAC/AQAR5/2022-23/Criteria-5/5.4.1-2022-2023.pdf

5.4.2 - Alumni's financial contribution during the year

E. <2 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

Vision

- To emerge and sustain as a center of excellence for technical and managerial education upholding social values.

Mission

Our aspirants are:

- Imparted with comprehensive, innovative, and value-based education.
- Exposed to technical, managerial and soft skill resources with emphasis on research and professionalism.
- Inculcated with the need for a disciplined, happy, married and peaceful life.

The nature of governance in VCET refers to the system and processes by which the institution is managed, administered, and regulated. It encompasses on decision-making, leadership, policies, and structures that guide the functioning of the institution.

Each department will have a Department Advisory Committee (DAC). Members of DAC are experts from industry and other reputed institutions. The process of the department initiating the framing the department vision, mission, and Program Specific Objective (PSO) was discussed and approved during the committee meeting. Also, the autonomy process of approving the syllabi and curriculum is done in Board of Studies (BoS) meeting of each department. Further, the Academic Council Meeting (ACM) is conducted for the whole college, inclusive of all departments. The Governing Council, besides being the supreme administrative authority of the college, shall execute additional functionalities by getting concern from state government nominees and UGC nominees.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://vcet.ac.in/vcetit/pdfs/HR%20POL_ICY_%2014.07.2023.pdf

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

Decentralization and participative management are the keys to the success of VCET. Decentralization is implemented in the college by distributing authority and decision making across

various Deans rather than concentrating power on the top. Professional growth, flexibility, and quick decision-making are guaranteed by doing this. Faculty members and staff at various levels have the opportunity to develop leadership skills and take ownership of their roles. Participative management fosters a sense of teamwork and shared responsibility, leading to more cohesive and motivated faculty members.

Fig 1. The organizational structure of the college comprises the Senior Principal, Principal, Deans, Heads of all departments (HoD), Administrative officers, and other supportive departments under the guidance of the honorable Chairman.

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	Nil

6.2 - Strategy Development and Deployment

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

The institution works and plans strategies towards implementing the vision through separate core areas, which are planned to be headed by corresponding deans.

The core areas are:

Academics

Dean (Academics) focus on the smooth conduct of academic activities through TLP.

Perspective Plan for Teaching and Learning Process

- Curriculum Design and Flexibility
- Outcome-Based Education (OBE)

- Innovative Teaching Methods
- Continuous Assessment
- Choice-Based Credit System (CBCS)
- Interdisciplinary Learning

Student Affair

Dean (Student Affair) monitors student activities, disciplinary measures, and counseling procedures.

Perspective Plan in Student Affairs

- Discipline maintenance
- Student participation in events
- Organizing events for students
- Student Awards

Research and Development

Dean (Research and Development) implements a research culture in VCET.

Perspective Plan in Research and Development

- Publications in Scopus indexed and Sci journal
- Improving the citation of the faculty members.
- Receiving a research grant.
- Planning for a utility patent.

Planning and Development

Dean (Planning and Development) focuses on infrastructure, NIRF ranking of the college.

Perspective Plan in Planning and Development

- Improvising infrastructure
- NIRF ranking

Industry Institute Interaction

Dean (Industry Institute Interaction) maintains cardinal relationship with various industries and many employers to enhance placement, internship support, and training activities

Perspective Plan in Industry Institute Interaction

1. Signing a MoU with the industry.
2. Exclusive Placement Training
3. Internship
4. Placement Drive

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 following are the committees and members constituted for the management of

different institutional activities:

1. Board of Trustees: Chairman, CEO, Trustees
2. Governing Council: Industrialist, Academician and Advisor
3. Academic Council: Academician and Industrialist
4. Budget and Finance Committee: Senior faculty and coordinators
5. Purchase Committee: Senior faculty and group of members
6. Hostel Maintenance and Canteen Committee: Hostel warden and faculty members
7. Awards Committee: Senior Faculty and coordinators
8. Faculty Development Committee: Principal, Dean(Academics) and coordinators

9. Library Committee: Librarian and coordinators

10. Disciplinary/ Anti-ragging Committee: Team of Teaching and non-teaching members

11. Gender Issue Cell: A senior faculty and coordinators.

12. Newsletter/ College Calendar /Prospectus committee: Coordinators and faculty

13. Complaints cum Redressal Committee: Dean (Academics)and coordinators

14. Transport Committee: Senior faculty and team members

15. Internet Committee: Dean (Planning & Development) and system administrative team

16. Placement Committee: Dean (Industry interaction), Placement coordinator and team members

17. Research Committee: Dean (Research & Development) and coordinators

18. Sports Council: Physical director and team members

19. Extra and Co- curricular Committee: Dean (Student affairs) & Committee coordinators

File Description	Documents
Paste link to Organogram on the institution webpage	https://vcet.ac.in/vcetit/pdfs/HR%20POLICY_%2014.07.2023.pdf
Upload any additional information	View File
Paste link for additional Information	Nil

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	No File Uploaded
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 for teaching and non-teaching staff are as follows,

For Teaching Staff:

- Encourage and support ongoing professional development through workshops, conferences, and training programs. Continuous support towards research through funding for international conference. Faculty members will be provided with sufficient on duty permission to deliver lecture at other institutions. . Permission for visits to industry and higher learning institutes.
- Ensure that teaching staff receives competitive salaries based on qualifications and experience.
- Provide benefits such as insurance cover, maternity leave etc.
- Implement policies that promote a healthy work-life balance, including reasonable working hours and vacation time. Consider flexible scheduling options or remote work arrangements when possible.
- Recognize and appreciate the achievements and contributions of teaching staff through awards, acknowledgments, or public recognition.

For Non-Teaching Staff:

- Provide fair and competitive salaries for non-teaching staff, considering their skills, experience, and responsibilities.

- Offer job security and opportunities for career advancement through training, skill development, and promotions.
- Invest in training programs to enhance the skills of non-teaching staff and improve their job performance.
- Fee concession given in velammal group of school, college

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vcet.ac.in/vcetit/pdfs/Handbook/VCET%20Handbook%202022-2023.pdf

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

6

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

4

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.)

82

File Description	Documents
Summary of the IQAC report	No File Uploaded
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

As a fully private institution, the organization places great emphasis on rigorous and meticulous financial auditing. An external auditor, appointed annually, diligently reviews the accounts and prepares duly signed financial statements. To ensure financial compliance, the institution has instituted a comprehensive mechanism for both internal and external audits of financial transactions on an annual basis.

Internally, the financial committee of the institution conducts semi-annual audits. This committee meticulously examines income and expenditure details, submitting a compliance report to the institution's management through the principal. Externally, an independent agency conducts an audit once a year.

To monitor the effective and efficient use of financial resources, the institution follows a structured process. At the start of each financial year, the principal submits a budget allocation proposal to the management, taking into account recommendations from department heads. The college budget encompasses recurring expenses such as salaries, electricity, internet charges, maintenance costs, stationery, and other consumable charges, as well as non-recurring expenses like the purchase of lab equipment, furniture, and other development expenses. The accounts department oversees and monitors expenses according to the budget set by the

management, including the calculation of depreciation costs for items purchased in previous years.

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

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)

22.9

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

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

Mobilization of funds

- College fees for students
- Sponsored funded projects from government bodies/organization.
- Funded Faculty Development Program (FDP), STTPs, Workshops and Seminars.
- Sanction of Modrob scheme from AICTE for setting up of Laboratory.
- Fund generated through consultancy work.
- Alumni contribution towards welfare of the college.
- Industry supported laboratory through signing MoUs.

Utilization of Resources

- Salary for faculty members and non-teaching staff members
- Infrastructure development for academic, research and

other activities to held in the college.

- Procurement of Hardware and Software licensing.
- Developing library infrastructure and procurement of books for new courses.
- Expenses for conduct of examination and valuation process.
- Remuneration for resource person visiting the college for seminars and workshops.
- Financial support for filing patents.
- Financial assistance for attending conferences.

File Description	Documents
Upload any additional information	No File Uploaded
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 Cell of the college works towards improving and maintaining the quality of education, identifying and suggesting new ways of using teaching aids, developing suitable infrastructure, and offering suggestions for the new self-finance courses. IQAC is an effective and efficient internal coordinating and monitoring mechanism. The IQAC plays a vital role in maintaining and enhancing the quality of the institution and suggests quality enhancement measures to be adopted. The IQAC meets every quarterly to plan, direct, implement and evaluate the teaching, research, and publication activities in the College. The sub-committees dealing with various activities and departments implement the IQAC guidelines and report the feedback.

Key activities:

- NBA Accreditation for B.E. CIVIL, B.E. CSE., B.E. ECE, B.E. EEE, B.E. Mechanical, B.Tech. IT.
- New Courses are established. One UG Programme - B.Tech. Artificial Intelligence and Data Science and one PG Programme - Masters in Business Administration. Also,

two new UG programmes are planned during this academic year namely B.Tech. Cyber Security and B.Tech. VLSI Design.

- All classrooms are equipped with LCD facility and Seminar halls of each department is equipped with Smart TV, e-podium, sliding and Pin-up boards, comfortable seating arrangements accommodating 100 students, Interactive TV for online access.
- IIC star ranking.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://vcet.ac.in/vcetit/pdfs/viewmore.pdf

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

Programme Assessment Committee (PAC) Audit

PAC audit for each programme is conducted to monitor the following,

- Verify attainment of COs, POs and PSOs
- Deviation in attainment is recorded and corresponding recommendations will be provided to achieve attainment for the next batch.
- Course instructor is recommended to update the course plan according to the PAC recommendations.

Course file audit

Academic audit is conducted to verify the maintenance of course file and log record periodically.

- The Academics team of the College conducts Course File audit at every semester. The course file includes course contents, test question, question to CO mapping, scheme of evaluation, assignment questions, sample answer scripts, test performance analysis, course exit survey and CO attainment. Syllabus coverage, content delivery methods, quality of assessment and rubrics used in courses are audited. Comments and suggestions

for improvement are provided for the course instructor.

- Question paper audit

The Controller of examinations office conducts question paper & answer script audit with external experts. Audit reports are submitted to respective Head of the Department for necessary actions.

- Course exit survey - This survey is mandatory for each course at the end of the semester which delivers the core understanding of the course by every student attended the course. This is considered for calculating the attainment of the course.

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	http://vcet.ac.in/vcetit/igac.html
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	No File Uploaded
Upload any additional information	No File Uploaded

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

Velammal College of Engineering and Technology has a strong ethical work culture that is based on inclusivity. Safety, security, and well-being, along with gender equity and a friendly working atmosphere, are the issues of prime concern to VCET.

Gender sensitivity is an inherent value in the cultural ethos of the institute and its neighboring community, as is evident by the following facilities:

- Well-trained and vigilant women wardens and assistant wardens were appointed to the girls hostel on campus.
- Awareness campaigns on women's safety and gender sensitivity through street plays, rallies, and camps by NSS student volunteers.
- Security guards are deployed at the main gate, and students with valid identity cards are allowed into the campus.
- The college campus is under surveillance, with CC cameras installed at prominent locations.
- The Internal Complaints Committee (ICC) interacts regularly with the girl students and resolves the issues addressed by them.
- The college ensures social security through the Anti-Ragging Committee and the Grievance Redressal Committee.
- A complaint box is arranged to receive grievances or suggestions from the students, which are addressed by respective committees.
- Emergency contact numbers are displayed in prominent places in campus. The disciplinary committee curbs indiscipline in the campus.

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

7.1.2 - The Institution has facilities for

C. Any 2 of the above

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

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Uploaded

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)

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

There are different types of waste disposed of in the college for which a proper system is functioning. The following waste is being disposed of by the college:

E-Waste Management

Software upgrades are done as and when required. Low-end computers in working condition are given to schools for reuse purposes. UPS batteries are recharged, exchanged, or repaired by the suppliers. The minor repairs are set right by the staff and lab technicians; and the major repairs, done by the professional technicians, are reused.

Waste Recycling System

1. The STP supplies water for our extensive lawn, trees, and other plants on campus. Waste segregation is encouraged in classrooms.
2. Segregation of wet and dry waste was initiated.
3. Awareness program on water conservation.
4. Awareness program on energy conservation.

E-medical Waste Management

This is not applicable for our institution

Hazardous chemicals and radioactive waste management

This is not applicable for our institution

Liquid Waste Management

The waste water is carried out through the pipeline, and this is carried out to the tree plantation.

Biomedical Waste Management

This is not applicable for our institution

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

7.1.4 - Water conservation facilities

B. Any 3 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**

C. Any 2 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**

C. Any 2 of the above

5. Beyond the campus environmental promotional activities

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

<p>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.</p>	<p>B. Any 3 of the above</p>
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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 college institutionalized inclusiveness by extending equitable access to students from socially disadvantaged communities and women through the following means:.

Priority in admission goes to socially and economically weaker sections and women. The impact of this inclusive policy is observable in the percentage of admissions of students from Scheduled Caste Communities and Most Backward Communities (MBC).

Many students who hail from the neighboring villages not only belong to socially disadvantaged communities but also to economically poor backgrounds and mainly depend on government scholarships. Scholarships of around 20L are provided to the economically weaker students.

The college also organizes various cultural programs to celebrate the cultural diversity of India. Students from various regional and cultural backgrounds participate in such programs and present their regional or cultural folk songs and dances. These cultural events and sports are organized at different levels and departments with four different group names - Red cherries, yellow plums, green grapes, and blueberries.

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:

S. No

Title of the Programme /Activity

Date

Number of Participants

1

Independence Day Celebration

12.08.2022

150

2

Republic Day Celebration

26.02.2023

133

3

Entrepreneurship Awareness Camp

25.08.2022

45

4

Entrepreneurship Awareness Programme

21.09.2022

55

5

Entrepreneurship and Startup

21.10.2022

50

6

Entrepreneurship Awareness Programme

17.11.2022

62

7

Skill Development Programme on

Repair and Maintenance of Power Supply, Inverter and UPS

02.12.2022

to 11.01.2023

30

8

Business Plan Preparation

19.01.2023

30

9

Promoting Startup Ideas

04.02.2023

62

10

Naanum Ambani Avan

17.02.2023

50

11

Training program on Promotion of Energy Audit and Conservation of Energy

14-03-2023 to

16-03-2023

60

12

Role of Entrepreneurship Development Cell (EDC)

12.04.2023

50

13

The Age of Intelligence

18.05.2023

62

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

C. Any 2 of the above

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	
<p>The institution celebrates and organizes national and international commemorative days, events, and festivals. National festivals play an important role in planting the seeds of nationalism and patriotism among the people of India. Our institution celebrates these events with great enthusiasm to commemorate the ideology of nationalism and to pay tribute to our great national leaders. The faculty, staff, and students of the institution all come together under one umbrella to celebrate these occasions and spread the message of unity, peace, love, and happiness throughout.</p>	
File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded
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	

Two of the Best Practices are

1. Fostering a Dynamic Research Ecosystem
2. Placement and Training

1. Fostering a Dynamic Research Ecosystem

Objectives of the Practice:

- To motivate the faculty and students to do research and to present or publish the research paper at reputed journals and conferences.
- To identify thrust areas and know the individual research interest in supporting infrastructure, considering the thrust area and the state of the art.
- To create awareness about various funding schemes of the government, AICTE, DST, DRDO, etc., and motivate the faculty to prepare good research proposals.
- To create awareness about patents and innovative intellectual rights.
- To develop a research culture in the Institute and lifelong learning skills among students / faculty

2. Placement & Training

Objectives of the Practice:

- To set up training infrastructure for conducting value added training programs and enhancing the employability of students.
- To contest the best practices in conducting and coordinating the campus placement process for the industries in the institution.
- To achieve the services of competent training agencies to train the students in soft skills and personality development programmes.

File Description	Documents
Best practices in the Institutional website	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-7/7.2-2022-2023.pdf
Any other relevant information	http://vcet.ac.in/vcetit/placestats.htm <u>1</u>

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)

Vision of the Institution:

To emerge and sustain as a center of excellence for technical and managerial education upholding social values

A measure of sustainability as a center of excellence is to impart education that empowers the students to become employable/opt for higher studies in reputed institutions/explore avenues for entrepreneurship. The college, in keeping with its vision and mission, ensures that students develop the confidence to fit into more than one of the above three categories.

The Training and Placement Cell every year begins the training program at the beginning of the III year, and the students are given intensive training in taking aptitude tests in logical reasoning, and enhancing their soft skills by facing interviews with both technical and HR in multiple sessions. As a result, the college is justifiably proud of its consistent 80-85 placements each year in highly reputed MNCs.

Preparing the students for the GATE examination is an integral part of every department's activity, and students are encouraged to sit for GATE exams to enable them to qualify for higher studies in reputed institutions and also boost the opportunity for employability in PSUs.

The College places a strong emphasis on evolving students to be employers rather than employees and the College has set up

a DST sponsored IEDC (Innovation and Entrepreneurship Development Centre), which caters to the development of budding entrepreneurs by regularly organizing Entrepreneurship Development programs for students.

File Description	Documents
Appropriate link in the institutional website	https://vcet.ac.in/vcetit/pdfs/NAAC/AOAR5/2022-23/Criteria-7/7.3-2022-2023.pdf
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

The plans of action for the next academic year are:

1. To work towards improvement in Atal Ranking of Institutions on Innovation Achievements (ARIIA) and NIRF Ranking
2. To create an Incubation Centre to cater to the needs of society.
3. To have more industry-academic interface with functional MoUs, leading to more internships/placements for the students.
4. To motivate the students to participate in international contests and Hackathons.
5. Inception of UG course on VLSI design and Cyber Security
6. To get more consultancy/sponsored research projects.
7. 100% placement of eligible and placement-interested students
8. Preparation for tier 1 NBA accreditation of all departments.