



## **YEARLY STATUS REPORT - 2021-2022**

### **Part A**

#### **Data of the Institution**

<b>1.Name of the Institution</b>		<b>Velammal Engineering College</b>
• Name of the Head of the institution		<b>Dr S Satish Kumar</b>
• Designation		<b>Principal</b>
• Does the institution function from its own campus?		<b>Yes</b>
• Phone No. of the Principal		<b>04426591842</b>
• Alternate phone No.		<b>04426590758</b>
• Mobile No. (Principal)		<b>9123547591</b>
• Registered e-mail ID (Principal)		<b>principal@velammal.edu.in</b>
• Address		<b>Velammal New-Gen Park, Ambattur-Redhills Road</b>
• City/Town		<b>Chennai</b>
• State/UT		<b>Tamil Nadu</b>
• Pin Code		<b>600066</b>
<b>2.Institutional status</b>		
• Autonomous Status (Provide the date of conferment of Autonomy)		<b>29/04/2019</b>
• Type of Institution		<b>Co-education</b>
• Location		<b>Urban</b>

• Financial Status	<b>Self-financing</b>
• Name of the IQAC Co-ordinator/Director	<b>Dr.P.Visu</b>
• Phone No.	<b>04426590758</b>
• Mobile No:	<b>9884002675</b>
• IQAC e-mail ID	<b>iqac@velammal.edu.in</b>
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="http://velammal.edu.in/">http://velammal.edu.in/</a>
<b>4.Was the Academic Calendar prepared for that year?</b>	<b>Yes</b>
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://velammal.edu.in/wp-content/uploads/2022/06/Handbook-21-22.pdf">https://velammal.edu.in/wp-content/uploads/2022/06/Handbook-21-22.pdf</a>

**5.Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.2</b>	<b>2009</b>	<b>30/09/2009</b>	<b>30/09/2014</b>
<b>Cycle 2</b>	<b>A</b>	<b>3.07</b>	<b>2016</b>	<b>17/03/2016</b>	<b>17/03/2021</b>
<b>Cycle 3</b>	<b>A</b>	<b>3.07</b>	<b>2020</b>	<b>18/03/2021</b>	<b>31/12/2024</b>

<b>6.Date of Establishment of IQAC</b>	<b>07/08/2010</b>
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**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.A.Balaji Ganesh	DST-SATYAM	DST	12/03/2020	3172000
Velammal Engineering College	Newgen - IEDC	DST	01/11/2017	28700000
Velammal Engineering College	Higher Education cell for SC/ST	AICTE	14/03/2019	820000
Velammal Engineering College	Skill and Personality Development Program Centre for SC/ST students	AICTE	03/03/2020	1129185

**8.Provide details regarding the composition of the IQAC:**

<ul style="list-style-type: none"> <li>Upload the latest notification regarding the composition of the IQAC by the HEI</li> </ul>	<a href="#">View File</a>	
<b>9.No. of IQAC meetings held during the year</b>	<b>2</b>	
<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?</li> </ul>	<b>Yes</b>	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10.Did IQAC receive funding from any funding agency to support its activities during the year?</b>	<b>No</b>	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		

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

- Created E-Contents for many theory and laboratory courses to support student's online learning.
- Faculty members and students have effectively utilized the google class room for sharing teaching and learning materials.
- Established Institution Innovation Council in the college.

**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
Compliance visit report to be submitted for extension of NBA accreditation	BE Mechanical engineering and B.Tech Information Technology programs got an extension of 3 more years accreditation from NBA.
Submitting Self Study Report - NBA Accreditation for 5 Programs (EEE, ECE, CSE, E&I and Civil) are planned	All the 5 Programs got NBA Accreditation for 3 years
To conduct More number of Events to foster Innovation among students and Faculty members	Received 4* rating in Institution Innovation Council for the Academic Year 2021-22
To promote Patent publication and Entrepreneurship skill	2 start ups and 10 patents filled during the academic year 2021-22

**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	11/02/2023

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

Yes

- Year

Year	Date of Submission
2021-22	20/04/2022

**15.Multidisciplinary / interdisciplinary**

UG Programme Artificial Intelligence and Data Science are introduced in both multidisciplinary and interdisciplinary fields. Many open elective courses are offered to students of all the programs with 3 credits each to encourage students to undergo courses with interdisciplinary nature. Students from different programs joining together and doing projects and participating various national level design competitions/ challenges organized by reputed institutions and Government agencies

**16.Academic bank of credits (ABC):**

NA

**17.Skill development:**

Soft Skills and hard skills are enhanced with a greater number of courses such as Quantitative Aptitude and Verbal Reasoning, Quantitative Aptitude & Behavioral Skills, Quantitative Aptitude & Communication skills, value added courses, and internships. Activities are conducted through various professional societies and clubs for improving skills.

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

The course constitution of India is a mandatory course for all the programs and is offered in the second semester. Other than this, Value based courses are offered such as Personality & Character Development, Professional Ethics in Engineering courses etc in the higher semesters.

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

In Velammal Engineering College, OBE has been implemented since 2014. Course Outcomes are well defined for every course. Course outcomes are mapped with Program Outcome and Program Specific Outcomes. At the end of course, Course attainment is computed based on target and threshold. At the end of program, Program attainment is calculated for the particular batch. Based on the attainment level of each POs, the actions are planned and implemented in the next year. Eight UG programs are accredited by NBA. Various committees such as Department Academic Committee (DAC), Internal Quality Assurance Cell (IQAC) and Program Assessment Committee (PAC)

are framed to assess OBE every year. Committees monitor the implementation of OBE.

## 20.Distance education/online education:

Velammal Engineering college encourages students and faculty members to undergo online courses offered by reputed organizations like NPTEL and SWAYAM platform to enhance/ upgrade their knowledge in the emerging areas.

## Extended Profile

### 1.Programme

1.1 12

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 2.Student

2.1 2819

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 778

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3 2753

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

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 3.Academic

3.1	710
Number of courses in all programmes during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.2	206
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3	184
Number of sanctioned posts for the year:	
<b>4.Institution</b>	
4.1	603
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	72
Total number of Classrooms and Seminar halls	
4.3	850
Total number of computers on campus for academic purposes	
4.4	1099.36
Total expenditure, excluding salary, during the year (INR in Lakhs):	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

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

The curricula have been formulated in accordance with the guidelines of AICTE, affiliating university and, in alignment with the vision and mission of the Institution. The institution has strategized various ways with the input of industry and academic experts to strengthen the curriculum and syllabi on par with the industry requirements for betterment of the student community. The curriculum is designed in the form of Humanities and social science, Basic and Engineering Sciences, Professional Core, Professional and Open electives and Employability Enhancement courses with the importance on overall development and knowledge acquisition by considering the technological advancements in the industry and society. The curricula designed in our institution also focusses on higher studies, entrepreneurship and skill development.

New courses are introduced in most of the programmes to meet out the industrial requirement for human resources. The curricula are updated through the Programme Advisory Committee and Boards of Studies in the department level and Academic Council in the institution level and also the academic experience gained by faculty members of the institution based on their teaching and research. Institution regularly invites industry experts in specialized streams to share their views, experience and current trends with students and faculty to update and upgrade their knowledge. POs and PSOs are formulated for every programme based on the 'outcome based education' approach. Course objectives and outcomes, are prepared for each course following the appropriate levels of Blooms taxonomy.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.1.1-Relevant-documents-2021-22.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.1.1-Relevant-documents-2021-22.pdf</a>

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

9



File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

683

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	No File Uploaded
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

64

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

12

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

### 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

To incorporate and integrate the crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the curriculum, Institute has introduced courses like Environmental Science and Engineering, Constitution of India. Engineering Ethics etc. in the UG programmes. The institution has a Women empowerment Cell to provide counselling to students. Without gender discrimination female students are represented in NCC, E- Cell etc. Social development activities like blood donation camps, health check-up camps, hygiene and health workshops, environment awareness camps, workshops on social issues, public health, gender issues are organized periodically. As an integral part of student engagement in social activities during their programme of study, college also facilitates the students to enroll as NSS/NCC Volunteers. It aims at inculcating values, ethics and socially responsible qualities. Students organize street plays, awareness campaigns, debates etc. Human values activities by students are being conducted. Various extension programmes are being organized by the Institute through NSS/YRC unit to create awareness among the rural community with respect to ecological balance and its importance. In order to sensitize students about the environment and sustainability issues, a number of activities such as seminars, workshops, guest lectures, industry visits and field visit are organized for students of all programmes.

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year****16**

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**1.3.3 - Number of students enrolled in the courses under 1.3.2 above****1583**

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.3.4 - Number of students undertaking field work/projects/ internships / student projects****1772**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**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	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.4.1/All-Dept-Feedback-Sample.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.4.1/All-Dept-Feedback-Sample.pdf</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 1.4.2 - The feedback system of the Institution comprises the following

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

File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/1.4.2-Feedback-link-all-dept-in-Website.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/1.4.2-Feedback-link-all-dept-in-Website.pdf</a>
Any additional information	<a href="#">View File</a>

### 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

725

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

##### 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)

452

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 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.

identifies learners as slow learners and advanced learners based on a wide range of ongoing assessment components, such as Continuous Internal Evaluation tests throughout the semester and Semester End Examination at the end of the semester. Assignment presentations, quizzes, class tests, teacher-student interactions and mentor-mentee meetings are also done for effective evaluation of students learning levels.

Academic coordinators, Faculty class advisors and mentors examine the students' academic progress on a regular basis and direct them in order to enhance their performance which assures their academic progression.

**Initiatives for Assisting the Slow Learners:**

Remedial classes and extra classes are offered to help the slow learners, absentees, the students who participate in sports and other activities in order to improve their academic performance. Counseling with mentors on regular basis with respect to academics. Creating awareness to the parents about the performance of the student periodically, so that the parents too will take the responsibility towards the student for his/her betterment. During Project work/in-plant training they are teamed with advance learners for enabling the peer learning. **Initiatives For Motivating Advanced Learners:**

The students are encouraged to do online certification courses like NPTEL SWAYAM, COURSERA, UDEMY, Edx etc. Advanced learners are motivated and supported to attend conferences, workshops, project expos, hackathons, competitions and technical events.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
25/04/2023	3624	206

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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:

The faculty members encourages students to actively participate in the learning process of all the courses offered in the college. The student's centric approaches experimental learning, participatory learning and problem-solving methodologies used are helped students to enhance the learning experiences in the college. The methodology helps to transform students from being passive recipients to active participants.

The student centric methods Project work, role play, Internship, in plant training, debates, Technical seminars, quizzes, case studies, innovative projects, and participation in smart India hackathon are some of the means utilized by the Departments to provide experiential and participative learning.

### Experiential Learning:

Mini Projects, Internships, Final Semester Projects, innovative projects and smart India hackathon are essential elements of each programme. Students will gain hands-on experience in an industrial environment during internship and industrial projects by means of solving real time problems.

During laboratory courses faculty members make effort to expose the students to practical experiments related to various courses in the

curriculum.

#### Participative Learning:

Different methodologies that include Individual Based, Team Based and Project based are used to accelerate the learning process. Interaction and participation of students are seen to grasp concepts better and faster.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	Nil

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

ICT-enabled technologies and online resources are employed in the teaching-learning process to help students to improve their learning abilities. It allows monitoring of students' learning processes through online quizzes, online assignment submission, and so on. Google Classroom, WhatsApp learning group & online Zoom and Google meet platforms are used to effectively manage the teaching learning process.

Google Spreadsheet is created for different process related to teaching and learning process to enhance the data collection and processing. Link will be shared with faculty members and faculty members upload their student's attendance, internal assessment marks, tutorial and assignment presentation scores on the course and class they taught.

Google spread sheet and Google forms are also used to assess the various students outcome like students feedback on teachers, course end survey and exit survey. The course outcome attainment processes are simplified after the use of Google spread sheets.

#### General ICT Tools used by the faculties are:

Desktop and Laptops, Projectors, Printers, Photocopiers, Tablets. Surprise quizzes encourage class preparation, attendance and, ensure the students to participate in class discussion designed to reinforce learning. Smart Classroom, NPTEL Videos, Virtual labs. Zoom and Google meet platforms.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	Nil
Upload any additional information	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

172

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

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

The academic calendar includes the reopening dates, continuous internal assessments/ cycle tests, model exams for theory and practical courses, schedule for project reviews. The academic schedule given by Anna University for affiliated college is followed for third and final year students. Academic schedule prepared for autonomous batches is followed for first and second year students. Due to covid-19 pandemic the academic schedules prepared was changed based on the guidelines given by government of Tamilnadu and Anna University.

Faculty were instructed to prepare a detailed course plan for the theory and laboratory courses to be handled by them at the beginning of the semester containing weekly teaching contents, tutorials / assignments/presentations/ quizzes planned to conduct, The various Outcome Based Education related parameters like Course objectives, course outcomes, CO-PO-PSO mapping, blooms taxonomy levels are also included in the course plan.

For the courses taught by multiple faculty members a common course plan was prepared with the discussion and participation of all the faculty members handling the particular course.



The syllabus coverage, change in academic schedule, additional arrangements to be made for the coverage of syllabus are discussed in the course committee meeting, department faculty meeting and HoDs meeting

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

206

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
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

54

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	<a href="#">View File</a>
Any additional information	No File Uploaded

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

1889

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 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

25

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

302

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

The Office of Controller of Examinations of Velammal Engineering College is striving hard to bring the Examination Reforms by means of improving Examinations procedures, integrating tools of Information Technology (IT) and by incorporating continuous Internal Evaluation Component. There has been several positive impact of reforms on the examination procedures and the examination processes are run through a indigenous software called "Rovan EMS". The digital process flow consist of Student Registration, Pre-

**Examination, Post - Examination, Revaluation, review and graduation.**

The integration of IT has modernized the entire examination process and has speeded up the functioning mechanism, while making the whole process more transparent and to ensure error free examination system.

Apart from End Semester Examinations (SEE), students are evaluated through Continuous Assessments (CIE) by individual departments. Continuous Internal Assessments are conducted for every courses of a particular Degree program in a centralized manner by Internal Exam Cell. The office of the Controller of Examinations maintains its constant touch through various meetings with the Heads of various academic departments, Deans, and Principal for smooth and up to date functioning of the examination system of the college.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

## 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

Course outcomes for all the courses, Program Outcomes, Program Specific Outcomes and Program Educational Objectives for all the programs are clearly formulated, specified, disseminated to all the stakeholders and published in the institute website.

The importance of COs, POs, PSOs and PEOs are highlighted to faculty members and students. Faculty members participated in the various FDPs, seminars and workshops related to Outcome Based Education, training programs conducted in the department levels and get trained about the importance of the OBE. The formation of COs, Booms Taxonomy level, CO-PO-PSO mappings and its evaluation are discussed in the department level meetings.

The institution uses the following mechanism to convey learning outcomes to teachers and students. The learning outcomes are conveyed to students through Orientation programmes and starting of each course. Detailed curriculum, course outcomes, program outcomes,

Program Specific Outcomes and assessment methodology for each course explained and given to students.

#### Links

<http://velammal.edu.in/mechanical-engineering-me/>

<http://velammal.edu.in/computer-science-and-engineering-cse/>

<http://velammal.edu.in/>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

##### course outcome attainment

Internal assessment question papers are framed with blooms level and relevant COs are included. After the tests are conducted, the papers are evaluated and marks are used to assess the CO attainment

Apart from the internal marks, other assessment tools such as assignments, seminars, quiz, laboratory tests, tutorials and oral tests are used to evaluate the COs. After the university examination results are published, the grade points obtained by the students are also considered for CO attainment.

##### PO and PSO Assessment Methods

The POs and PSOs are evaluated by direct and indirect assessment methods.

Weightage: 80% for direct assessment and 20% for indirect assessment

**Direct Assessment** At the end of every semester, the course outcome attainment for all the courses are calculated as described in the CO attainment process. At the end of the program, i.e., after all the courses are completed, PO and PSO attainment levels for a particular batch are evaluated based on the Course Outcomes attainment of all

the courses through CO-PO-PSO mapping.

**Indirect Assessment** The exit survey collected from all the students at the end of the program and the co-curricular & extracurricular activities of the students are considered for indirect assessment.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

### 2.6.3 - Pass Percentage of students

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

776

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil

### 2.7 - Student Satisfaction Survey

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

[https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria2/2.7.1\\_2021-22-Exit-survey-link\\_All-departments.pdf](https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria2/2.7.1_2021-22-Exit-survey-link_All-departments.pdf)

### 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

In serving faculty and administrators at the Institution and to assist in preparing and submitting proposals for sponsored project funding and managing sponsored research funds. Some of priority

areas to match with 12th five years plan of Government of India are identified, including Agriculture, Water, Energy, Environment and Health. The designator Dean (R&D) is the steering leader for all the research activities that are being carried out at the Institution. Research Council (RC) from each department identifies thrust/niche areas and directs each cluster to pursue multi-disciplinary and inter-disciplinary research projects. The clusters are attached with relevant RC and carried out research projects. Cluster labs pertaining to the Research Council are initially to be formed by attaching existing research labs to relevant Research Councils. Equipment purchases are funded by research grants of individuals, departments, research groups or institutions. Research labs are setup from various sources of funding. The futuristic laboratories in the area of, Machine learning, Networked autonomous system, Big data and Cloud computing will be established through Industrial collaborations and funds to be received from various government agencies.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.1.1-Research-Policy.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.1.1-Research-Policy.pdf</a>
Any additional information	No File Uploaded

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

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

1.00

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
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

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
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)

60.225

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.2.2 - Number of teachers having research projects during the year

23

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil
List of research projects during the year	<a href="#">View File</a>

### 3.2.3 - Number of teachers recognised as research guides

26

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

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

9

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	Nil
Any additional information	<a href="#">View File</a>

## 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.

**Innovation & Startup policy of Velammal Engineering College mainly empowerstheproductdevelopment-oriented activities in the Institution. To foster an interest in invention, innovation, and an entrepreneurial lifestyle among the students the Startup Lab shall host a series of workshops and events like faculty-led competition on innovation in which students develop and present their inventions, seminars by expert people or experienced entrepreneurs to share their experience that could help to transform students'**



promising ideas into successful products. Product Development Competition is a chance for students to take all of the skills and knowledge learned in the institution and applies them to a real-world situation. Each participating students' team develops a new product idea and carries the concept through marketing and production, much like a commercial product development team. The Startup Lab is committed to providing students with access to the best minds in entrepreneurship. Guest speakers of exceptional entrepreneurial achievement visit the Startup Lab on a regular basis, building relationships among entrepreneurs, angel investors (provides capital for a business) and students. Such relationships support and nurture innovation and entrepreneurial skill among the student community of the institution.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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

77

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4 - Research Publications and Awards

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

**A. All 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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

72

File Description	Documents
URL to the research page on HEI website	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.2-Research-supervisor-Link.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.2-Research-supervisor-Link.pdf</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded

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

0.427

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

0,106

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.4-Book-Chapter-Link.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.4-Book-Chapter-Link.pdf</a>

### 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

23

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 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

2

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.5 - Consultancy

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

0.64

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
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	<a href="#">View File</a>
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 Engineering College encourages the students to participate in various extracurricular activities like NSS, NCC and YRC. Our college makes the students strong both physically and mentally. Our students are very enthusiastic when doing social activities like tree plantation, social awareness program, medical camp etc.

Every year YRC serving 'Nilavembu Kashayam' to students and staff to take care of their health in monsoon period where 'Dengue' fevers catches more. And, every year YRC and NSS jointly conducting Blood Donation Camp to help the human community and their lives. Also, we are conducting health campaign like 'Eye Camp', 'First Aid Awareness

Camp' etc., Lake cleaning, Orphanage home visit and Old age home visit is also one of the best extension activities of our students.

NCC volunteers activities are, Swatch Bharat, Anti plastic rally, beach and water bodies cleaning activities etc.

Our Velammal Engineering College has accepted and hand over Hostels and Classrooms to Covid Care Centre, Chennai Corporation, Tamil Nadu during COVID-19 Pandemic period.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.6/3.6.1-Extension-Activities.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.6/3.6.1-Extension-Activities.pdf</a>

### 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

6

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
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)

49

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

1208

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

742

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 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 institution provides admirable infrastructural facilities for the teaching-learning experiences and rolls-out value added programmes & activities like Technical & Non-Technical Clubs, Activity based learning, Laboratory oriented theory classes which

bridges the gaps in academic teaching and in par with industry requirements. The available physical infrastructure is optimally utilized beyond regular college hours to conduct certificate courses, co-curricular activities / extra - curricular activities, Campus Recruitment Training classes, campus recruitments, seminars, conferences.

**Classroom:** 69 Class Rooms are available and are equipped with all necessary ICT facilities to enhance the teaching learning process. The optimal utilization is ensured through encouraging innovative teaching - learning practices inside the classrooms through well experienced teachers. **Laboratories:** Spacious and well-furnished laboratories with good ventilation and lighting facilities are available. All laboratories are equipped with essential equipment to meet the requirements of the curriculum. Latest software & Tools are available to enable the students to work on their interest by participating in various technical clubs.

**Seminar Hall:** 3 Seminar halls equipped with ultra-modern LCD projector, computer workstation, audio-visual facilities and Internet facilities.

**Library:** The Library is Spacious and well ventilated. It is equipped with a large number of books and journals with Open access facility.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

Velammal Engineering College strongly believes that a healthy body carries a healthy mind. Sports & Games play an integral part in the all-round development of the student. Keeping this in mind the institution has a definite policy and plan of action to encourage sports & games. The institute encourages students to participate in sports & games inside and outside the campus. Transport is provided to students to participate events outside the campus. Constant support from the management towards sports and games considerably enhances the health of the students and relieving the tension. In our effort we won number of tournaments. We're having sufficient area for sports and playing area for our students and we constructed

comfortable courts for both boys and girls. The environment is eco-friendly which helps healthy playing conditions.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

72

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

Rs. 150.10

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
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)

The Institute has a well established central library building. Library has a huge collection of Text books, Reference books and others books with foreign, peer-reviewed journals and bound volumes of journals. The reading room is well and provides conducive environment for study. A visitor record is maintained for students and faculty members, New Arrivals of books and journals are



displayed on rack.

**OPAC:** The library has developed the database of its own collection through the library software. Library is fully computerized with barcode-based issue-and return process, online public access catalogue (OPAC) facility is made available in the central library. OPAC which is used students and faculty member for search of books by Title, Author, Subject name etc. **e-Resources:** Internet and reprography facility with computer system. CD's, DVD, CD-ROM databases, barcode scanner, printer are available in the library.

**Library Automation:** All the active book collection is update in the library software database and the online public access catalogue (OPAC) is available for students and faculty members. The issue and return of book have been activated in the library software.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	No File Uploaded

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

**Rs. 5.91**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

#### 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

731

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
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

Yes, the Institute has an IT policy which is updated or amended whenever required as per the need of the institute. Institution tries to have upgradation IT facilities as per the requirement by regulatory norms. Institution is regularly upgrading its infrastructure covering Wi-Fi, software upgradation, ERP system, ICT enabled teaching learning. Formal IT policy has been approved by academic council. The acceptable use of policies are applicable to Employees, Students, Vendors and Visitors. Institutes have framed various policies like Procurement, Installation of Hardware, Network and software. Website Hosting and Database Usage policy has its method and hierarchy which is followed systematically. Certain violations of IT policy by any member may even result in disciplinary action against the offender by institution authorities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**4.3.2 - Student - Computer ratio**

Number of Students	Number of Computers
2819	850

File Description	Documents
Upload any additional information	No File Uploaded

**4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus**

A. 250 Mbps

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
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**

A. All four of the above

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

**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)**

Rs. 949.26

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	No File Uploaded

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.

Velammal Engineering College has a well-framed infrastructure policy for proper maintenance and utilization of the physical, academic and support facilities. The responsibility for provisioning and maintaining infrastructure is jointly shared by different authorities of the Institution, under the overall leadership of the Management.

#### Established Systems and Procedures

The Principal discusses with the Planning and Evaluation Committee and presents a report regarding physical, academic and support facilities. The CEO is empowered to deal with all matters pertaining to the acquisition, up-keeping and disposal of campus infrastructure.

An annual audit and inventory of the facilities is undertaken for assessment and evaluation.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

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

1528

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
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

18

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	<a href="#">View File</a>

### 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	Nil
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

2518

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)	<a href="#">View File</a>

**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	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	No File Uploaded
Upload any additional information	No File Uploaded

## 5.2 - Student Progression

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

596

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 5.2.2 - Number of outgoing students progressing to higher education

22

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
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**

17

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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**

4

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

Velammal Engineering College provides an excellent avenue for the students to enhance their skills and shape up their talents by being part of various initiatives in academic and administrative committees, clubs and councils for implementing innovative practices, social justice among the students and enhance the

stakeholders relationship at Institution-level.

Participation of students in the independent councils / committees and representation in different committees are shown below. In the case of Statutory Bodies, suggestions made by the representatives are recorded and considered for implementation.

Following committees, clubs, councils and cells are present in Velammal Engineering College.

1. CLASS COMMITTEE
2. INSTITUTE INNOVATION COUNCIL(IIC)
3. HOSTEL COMMITTEE
4. VELAMMAL ENTREPRENEURSHIP CELL (E-Cell)
5. NEWGEN INNOVATION & ENTREPRENEURSHIP DEVELOPMENT CENTRE
6. VEC CODERS CLUB
7. VEC LITERARY CLUB
8. VEC SPECTRUM CLUB
9. VEC MATHCLUB
10. VEC GREEN CLUB
11. NCC ARMY & NAVAL WING
12. YOUTH RED CROSS
13. NATIONAL SERVICE SCHEME (NSS)

Apart from these, as per guidelines of statutory bodies like AICTE /UGC /Anna University there are many other committees ,where students will actively participate and represent the issues in forum to solve the grievances.

1.INTERNAL COMPLIANCE COMMITTEE

2.SC ST COMMITTEE

3. GRIEVANCE REDRESSAL CELL

4.ANTI RAGGING COMMITTEE

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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



File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
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

Velammal Engineering College has got a very fine strength of Alumni who are pursuing their career worldwide. Alumni are always welcome to college to share their views in pursuing higher studies or career and give suggestions for the betterment of their junior students. This provides an opportunity for the juniors to set right their goal. The alumni often visit the college during their available time and the need of the juniors institution to deliver Guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Through E Cell activities alumni who are entrepreneurs are invited to share their success stories at various occasions of the Institute. During placements alumni conducts GD and mock interview for shaping up the juniors to fair well in their placement process. Many alumni act as mentors for the juniors who have similar vision in career and their interests are common. With our strong alumni network the recent graduated batch of students are guided in a right manner to pursue their higher studies and career advancements.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

5.4.2 - Alumni's financial contribution during the year C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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 educate the student community both by theory and practice to fit in with the society and to conquer tomorrow's technology at global level with human values through our dedicated team.

#### MISSION:

To provide world-class education in engineering, technology and management to foster research & development, encourage creativity, build leadership, intrapreneurship, entrepreneurship, nurture teamwork and achieve stakeholder's delight.

The college, founded by Shri M.V.Muthuramalingam, Velammal Educational Trust, has a structured and transparent administrative system.

The Chief Executive officer of Velammal Educational Trust, Shri M.V.M. Velmurugan, formulates and administers the strategic policies for realization of the objectives of the college.

The Management Committee, Governing Body, Finance Committee, Academic Council, and Board of Studies, including nominees of AICTE and Anna University, are the statutory bodies of the institution which are responsible for strategic planning and decision making.

The Principal is the academic head and the primary decision-making authority. The administration is decentralized with specific powers vested in the faculties nominated to the Statutory Bodies/Committees.

Internal Quality Assurance Cell (IQAC), along with Principal, works for quality education. IQAC takes care of academic and administrative policies by preparing and planning in consultation with the Heads of Departments and senior members of the college.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

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

The Management Committee, in consultation with the Governing Body, formulates strategic plans, devises policies, and ensures successful implementation.

The Principal adopts and practises a policy of decentralisation through a delegation of duties and responsibilities. Authority entrusted on the Heads of the Departments to manage day-to-day operations.

Anti-ragging Committee, Disciplinary Committee, Students' Grievances Committee, Women Empowerment cell, Placement and Career Guidance, Entrepreneurship Development Cell, College Day, Calendar and Newsletter Committees have been duly constituted with faculties as Office Bearers, and students and other stakeholders as its members, thereby, making it participatory in nature.

Faculty representatives of the committees, along with the student representatives are involved in decision-making. Need-based and society-oriented academic programmes and courses are designed at the department level which is followed by seeking the management approval.

The Principal, Heads of departments and faculty members have been collaborating to launch new initiatives that aim at skill development, value added courses and employability enhancement courses through Memorandum of Understanding with National institutions/bodies. The effective leadership and participatory management are a testament to the successful decentralisation policies and practices of the institution

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf</a>

## 6.2 - Strategy Development and Deployment

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

The IIC model in Velammal Engineering College is designed to address the existing challenges/issues in HEIs such as less numbers, occasional and unplanned Innovation & Entrepreneurship (I&E) activities organised in HEIs with low involvement of top leadership, lack of coherence and absence of synergy in resource mobilization, deployment and underutilization of creative potential of youths as major barrier for vibrant I&E ecosystem to emerge from HEIs.

IIC model is unique and distinct as it integrates the functionalities of flexibility calendar activities, scoring and reward system, decentralizing operation with division of work, progress monitoring and incentive mechanisms in coordinated manner through a robust digital platform. In last two years, undoubtedly, IIC has emerged as a very sustainable and scalable model for promoting innovation within HEIs and the efforts of these IIC Institutes can be seen as impactful contribution towards making country's innovation and start-ups ecosystem more vibrant and dynamic. The recent achievement of India's 48th position in Global Innovation Index (GII) ranking is a reflection of the same.

### Major Focus

- To create a vibrant local innovation ecosystem.
- Start-up supporting mechanism in HEIs.
- Prepare institute for Atal Ranking of institutions on innovation achievements framework
- Establish function ecosystem for scouting ideas and pre-incubation of ideas.

- Develop better cognitive ability among students.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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 College is managed by Velammal Educational Trust. The organisation structure of the institution is explicitly in line with the norms and stipulations laid down by the UGC and the affiliating body - Anna University.

The Management Committee formulates the strategic policies, plans and decisions for the overall development of the institution and to achieve global standards with quality academia, research and social commitment.

The Governing Body acts as a major role for the effective implementation of the strategic plans and decisions. It is also involved in the decision-making process of matters pertaining to finance and administration, working towards the developmental goals set by the institution.

The Principal is entrusted with the sole responsibility of academic, examination and administrative operations, ably assisted by the heads of departments, teaching, administration staff and IQAC.

Policies, plans and budgets proposed by the Statutory Committees such as the Academic Council are routed through Finance Committee for the approval of the Governing Body.

Academic Council is authorised to approve courses, regulate and revise syllabi as per the recommendations of the Boards of Studies. Updating the curriculum to meet the demands of industry and formulating examination patterns are the prerogatives of the Boards of Studies.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf</a>
Upload any additional information	<a href="#">View File</a>
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	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

## 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

- **Faculties :**

Institution encouraged to pursue their part-time Ph.D.'s Course work in the college with a fee concession.

Institution grants "ON-DUTY" permission for professional development programmes like conference and other training Programmes like FDP, STTP, Seminar and Workshop.

Institution grants "ON- DUTY" permission for valuation and other university affiliated works.

ESI, EPF, Medical facilities, Transport, Tuition fee concession to the children.

- **Career Development / Progression:**

All faculties are given promotion based on the fulfillment of AICTE Promotion policies and vacancy available in the department.

- **Non Teaching Faculties:**

ESI, EPF, Medical facilities, Transport, Tuition fee concession to the children, Work related facilities.

Staff under Grant in Aid Scheme are covered by Provident Fund and Contributory Pension Scheme

- **Official Welfare Measures:**

Internet facilities are made available to staff.

All blocks/buildings of the campus provided with ramps / elevator

- **Career Development / Progression**

Internal Training will be given to Non Teaching Faculty to enhance their skills in handling labs. Yearly increment given for their experience.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

146

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 6.3.3 - Number of professional development / administrative training programmes organized by

**the Institution for its teaching and non-teaching staff during the year**

13

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**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.)**

112

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**6.4 - Financial Management and Resource Mobilization****6.4.1 - Institution conducts internal and external financial audits regularly**

The Tuition Fee is collected through the administrative department and deposited in a unique bank account. The same is used for the various administrative and academic expenses. The institution provides additional facilities like hostel, transport, food, exam fees etc. and the respective fee collected are used for the expenses under appropriate head.

A yearly budget is prepared strategically with the composition of pay allowances, recurring, nonrecurring expenses and regular maintenance establishment expenses. This budget is well monitored periodically, and the account statement is prepared at the end of the academic year. This annual account statement is duly audited by the chartered accountant.

The College Accounts Office in trust maintain accounts, receipts and



payments, cash books, cheques issue register, vouchers and bills for financial transactions. The Finance Committee deliberates on financial management, resource mobilisation and utilisation for Controller of Examination accounts.

Internal Audit is conducted on a half yearly basis to ensure appropriate accounting and the management of financial resources.

Expenditure of semesters are collected on November and April of every year. This is verified by Internal Budget Committee Members.

External Audit is Conducted after the close of the financial year by the external auditor appointed by the Management - Velammal Educational Trust.

Balance sheet providing the income and expenditure accounts are examined to understand the financial status of the institution.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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)

1357900

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

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

Mobilisation of funds is very important as it provides the faculties to showcase their expertise to various agencies of Government of India and various industries. It is monitored by the head of the institution and the respective Department Head of the Department.

The sources of funds are

- (a) Tuition fee
- (b) Consultancy activities and revenue earned
- (c) Sponsored projects
- (d) Funds collected from IEDC and other resources for doing projects
- (e) Management.
- (f) Professional Societies like IEEE, SCI.

Governing body approves the funds allotted. Finance committee will audit and approve the funds for autonomous Examination related works. Faculty can apply and utilize research funds from various agencies like DST, AICTE, UGC.

Collected Funds are used for various academic, administrative works and faculty training courses. Academic purposes like equipment purchase, new lab setup, library book purchase and event organised for student welfare. Administrative expenses like electricity bill, Internet bill and various annual running expenditures.

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 goal of IQAC is to enhance and ensure the quality of academic and administrative performance of the institution by developing a system of conscious, consistent and continuous quality improvement.

Department of Mechanical Engineering, Automobile Engineering and Information Technology gone for NBA accreditation for compliance visit on May 2022. Department of Computer Science and Engineering,

Department of Electronics and Communication Engineering, Department of Electronics and Instrumentation Engineering, Department of Electrical and Electronics Engineering and Department of Mechanical Engineering submitted SAR report on February 2022 and waiting for audit date.

IQAC conducted various internal audit and external audit to enhance the quality of NBA accreditation. Institute of Innovation Council Established in this year and various events are conducted under various cell of IIC.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

#### Teaching Learning Review Process :

In PAC meeting the following points discussed

- Review the attainment of POs/ PSOs and action plans proposed for further improvement.
- Review the results of the 2020-21 academic year and propose the actions to improve the result
- NBA accreditation - Status of NBA accreditation work discussed
- Review of Industry - Institute Interaction done
- Review of Placement, Higher Studies and Entrepreneurship
- Students participation in Outside state for Co-Curricular and Extracurricular insisted.

Teaching learning process are reviewed under academic audits and external audits like ISO.

In BOS meeting, curriculum enrichment suggested and discussed by BOS committee members.

Various online courses, new online pedagogy techniques to implement for various courses will be discussed and planned.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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	Nil
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## **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

For the purpose of engaging young female students, the Women Empowerment Cell arranges Women Empowerment lectures, awareness events, and other contests. Every class elects a female student to serve as the class representative. To promote women leaders, the female faculties are appointed as heads of various departments, cells and clubs. Girl students are encouraged to participate in NSS and NCC to serve the society and the country. The girl students are encouraged to actively participate in curricular, co-curricular as well as extracurricular activities.

**Safety and security:**

- Hostel and college premises have 24 x 7 security support with CC TV monitoring.
- Daily Attendance system is followed for monitoring the hostel female students and staff members. If absenteeism is noticed, it will be intimated to the parents after due verification.
- For fitness of girls, a separate gym and sports facility with high-quality equipment are available in hostels in addition to regular facility.
- A students' counseling cell functions for helping students at times of their grievance, apart from the class advisors and academic coordinators.
- The health centre has rooms with cot facility, one consulting room and one waiting room for students to take rest on being unwell.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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**

**A. Any 4 or All of the above**

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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** -There are dustbins placed at specific points to prevent littering in the campus. Dry leaves are allowed to degrade over time in order to be used as manure in the institute's gardens. In the Ladies Hostel, separate containers are provided to separate napkins from other rubbish.

**LIQUID WASTE MANAGEMENT** -Sewage treatment plant is available to treat the liquid waste. A screening chamber and an aerator which supplies oxygen in the aeration tank for effective growth of microbes, secondary settling tank to remove the bio flocs and chlorination tank to destroy the pathogenic microbes in the treated effluent are installed in the campus and properly maintained.

#### **E-WASTE MANAGEMENT**

E-waste approach has gained proper attention, and all electronic items are put to the best possible use. Minor repairs are performed by the staff and Laboratory assistants to correct the equipment, and major repairs are performed by expert technicians and reused. Electronic waste items are taken care by the Institute.

#### **WASTE RECYCLING SYSTEM**

The wastewater from the restrooms and toilets are collected and this collecting system makes sewage treatment and disposal more efficient and effective. The treated water is used in the garden.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**      **A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

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

**A. Any 4 or All of the above**

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

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	<a href="#">View File</a>

**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:**

**D. Any 1 of the above**

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

**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.**

**C. Any 2 of the above**

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
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).**

**VEC caters to a diversified environment in terms of culture, geography, languages, community, economic, and other features, and is a strong supporter for diversity in a variety of ways.**

#### **CULTURAL DIVERSITY**

**VEC accommodates the culturally diversified students by encouraging**



the exchange of cross-cultural ideas and celebration of the festivals of different culture.

#### REGIONAL DIVERSITY

Apart from students from Tamil Nadu's different districts, the institute also has students from other Indian states. Students from all areas are given equal opportunities to participate in co-curricular activities such as clubs and cells, as well as extra-curricular activities like as sports and cultural events.

#### LINGUISTIC DIVERSITY

To bridge the gap between region-specific teaching and the expectations of students and faculty in other states, English is used as a medium of instruction in all courses.

#### COMMUNAL DIVERSITY

This institute welcomes students and staff from all cultures and religions, demonstrating that the institute attempts to offer a welcoming atmosphere for everyone.

#### SOCIO ECONOMIC DIVERSITY

Students from rural areas and low-income families attend the institute to study. To help students overcome socioeconomic challenges, the institution has helped them get scholarships and awards from state and central governments.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

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

The values are inculcated through courses in the curriculum, namely Universal Human Values and Professional Ethics & Human values. Through NSS, NCC, and other clubs, various programs are organized to make the students realize their rights, duties and responsibilities.

The various programs organized are:

- Environmental awareness programs like guest lectures, rally, competition, planting trees, campus cleaning, plastic usage awareness programs
- Blood donation camps by NSS and other clubs
- Camps for enrolment of voter ID for the students made them aware of their rights and duties.
- Village adoption programs to understand the live hood of village and made our students to understand their responsibilities.
- During natural disasters, students are permitted to collect funds/ materials and distribute them to the affected people

Independence Day, Republic Day and Constitutional Day are celebrated to create awareness among the students about our Constitution, freedom struggle and our nation's history.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

**A. All of the above**

File Description	Documents
Code of Ethics - policy document	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

- VEC provides outstanding supports towards celebrating national and international commemorative days, events, and festivals. Various cells and clubs are active in VEC for the benefit of students' community. These clubs and cells join together and celebrate various events; like, National-level events such as Independence Day, Republic Day, Teacher's Day, Gandhi Jayanti, Engineers Day, National Unity Day, Armed Forces Flag Day, NSS Day, NCC Day, International Yoga Day, International Women's Day, World Environment Day, Science Day, World Youth Day, World Water Day, World Population Day, and so on.
- National events such as Republic day and Independence Day aid to increase the unity among the students, promote the feelings of pride of our own country, which helps to raise the patriotic spirit among young minds.
- National and international leaders/scientists' commemorative days are celebrated to acknowledge their contribution towards the nation/society and to make students be aware of their services.
- Many programs are organized and celebrated to create the awareness to students on environment, physical and mental health, gender equality, national services, to know, protect and practice their citizenship rights, to give them knowledge about do's and don'ts.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
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

1. Innovation in education leads to better outcomes in college environment. Innovation refers to the introduction of new or improved products, processes, or services. Entrepreneurs and startups are key drivers of innovation and economic growth. The main goal is to a) Organize conferences, workshops, seminar and training to promote innovation. b) encourage students to do more innovative projects that led to increase productivity, competitiveness, brand recognition, turn over, profit and economic growth
2. Intellectual property rights protect the rights of creators and inventors to their creations and inventions. It includes patents, trademarks, and copyrights. The main goal is to a) motivate students to do more funded projects that led to brand recognition, patent, and profit b) motivate to file patent for preservation of innovation, which is essential for better planning and commercialization c) enable student and faculty to establish a start up to market their innovative funded projects.

File Description	Documents
Best practices in the Institutional website	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/7.2.1-best-practice-2021-22.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/7.2.1-best-practice-2021-22.pdf</a>
Any other relevant information	Nil

## 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)

The distinctiveness of Velammal Engineering College has been explicated through the practical learning endeavors prevalent in the institution as Students learn by doing and engaging themselves in hands-on activities, leading to their overall development. Empirical learning is realized through Soft Skill Development, Confidence Building Measures, Communication Skills, Decision-Making Skills through organization of events, Computer Skills, Training to be Professionals and Personality Development Measures.

The college ranked number 1 and Number 6 in April /May 2021 examinations and November/December 2021 examinations among all the self finance Engineering colleges Affiliated to Anna University in Tamilnadu.

The placement department focuses on bringing the most relevant professional opportunities for the learners through various initiatives and activities. 96.69% of the eligible students got placement. 250 companies visited to on campus for recruitment and the average salary was increased to 4.66 LPA.

Students are introduced to new concepts and they develop academic and professional research skills by doing Mini projects, research and projects.

The institution receive 4\* ratings in Institution Innovation council.

We have conducted 90 events related to Different types of I&E and IPR activities, 36 innovative productes were developed by students and faculty members. 3 new Start-ups/Ventures established by students and faculty members.

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

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

The curricula have been formulated in accordance with the guidelines of AICTE, affiliating university and, in alignment with the vision and mission of the Institution. The institution has strategized various ways with the input of industry and academic experts to strengthen the curriculum and syllabi on par with the industry requirements for betterment of the student community. The curriculum is designed in the form of Humanities and social science, Basic and Engineering Sciences, Professional Core, Professional and Open electives and Employability Enhancement courses with the importance on overall development and knowledge acquisition by considering the technological advancements in the industry and society. The curricula designed in our institution also focusses on higher studies, entrepreneurship and skill development.

New courses are introduced in most of the programmes to meet out the industrial requirement for human resources. The curricula are updated through the Programme Advisory Committee and Boards of Studies in the department level and Academic Council in the institution level and also the academic experience gained by faculty members of the institution based on their teaching and research. Institution regularly invites industry experts in specialized streams to share their views, experience and current trends with students and faculty to update and upgrade their knowledge. POs and PSOs are formulated for every programme based on the 'outcome based education' approach. Course objectives and outcomes, are prepared for each course following the appropriate levels of Blooms taxonomy.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.1.1-Relevant-documents-2021-22.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.1.1-Relevant-documents-2021-22.pdf</a>

**1.1.2 - Number of Programmes where syllabus revision was carried out during the year****9**

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year****683**

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	No File Uploaded
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****64**

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

12

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

### 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

To incorporate and integrate the crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the curriculum, Institute has introduced courses like Environmental Science and Engineering, Constitution of India. Engineering Ethics etc. in the UG programmes. The institution has a Women empowerment Cell to provide counselling to students. Without gender discrimination female students are represented in NCC, E- Cell etc. Social development activities like blood donation camps, health check-up camps, hygiene and health workshops, environment awareness camps, workshops on social issues, public health, gender issues are organized periodically. As an integral part of student engagement in social activities during their programme of study, college also facilitates the students to enroll as NSS/NCC Volunteers. It aims at inculcating values, ethics and socially responsible qualities. Students organize street plays, awareness campaigns, debates etc. Human values activities by students are being conducted. Various extension programmes are being organized by the Institute through NSS/YRC unit to create awareness among the rural community with respect to ecological balance and its importance. In order to



sensitize students about the environment and sustainability issues, a number of activities such as seminars, workshops, guest lectures, industry visits and field visit are organized for students of all programmes.

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

16

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	No File Uploaded

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

1583

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

1772

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 1.4 - Feedback System

<b>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</b>	<b>A. All 4 of the above</b>
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File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.4.1/All-Dept-Feedback-Sample.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criterial/1.4.1/All-Dept-Feedback-Sample.pdf</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	No File Uploaded

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

File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/1.4.2-Feedback-link-all-dept-in-Website.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/1.4.2-Feedback-link-all-dept-in-Website.pdf</a>
Any additional information	<a href="#">View File</a>

#### 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

725

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### 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)

452

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 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.

identifies learners as slow learners and advanced learners based on a wide range of ongoing assessment components, such as Continuous Internal Evaluation tests throughout the semester and Semester End Examination at the end of the semester. Assignment presentations, quizzes, class tests, teacher-student interactions and mentor-mentee meetings are also done for effective evaluation of students learning levels.

Academic coordinators, Faculty class advisors and mentors examine the students' academic progress on a regular basis and direct them in order to enhance their performance which assures their academic progression.

### Initiatives for Assisting the Slow Learners:

Remedial classes and extra classes are offered to help the slow learners, absentees, the students who participate in sports and other activities in order to improve their academic performance. Counseling with mentors on regular basis with respect to academics. Creating awareness to the parents about the performance of the student periodically, so that the parents too will take the responsibility towards the student for his/her betterment. During Project work/in-plant training they are teamed

with advance learners for enabling the peer learning. Initiatives For Motivating Advanced Learners:

The students are encouraged to do online certification courses like NPTEL SWAYAM, COURSERA, UDEMY, Edx etc. Advanced learners are motivated and supported to attend conferences, workshops, project expos, hackathons, competitions and technical events.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
25/04/2023	3624	206

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 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:

The faculty members encourages students to actively participate in the learning process of all the courses offered in the college. The student's centric approaches experimental learning, participatory learning and problem-solving methodologies used are helped students to enhance the learning experiences in the college. The methodology helps to transform students from being passive recipients to active participants.

The student centric methods Project work, role play, Internship, in plant training, debates, Technical seminars, quizzes, case studies, innovative projects, and participation in smart India hackathon are some of the means utilized by the Departments to provide experiential and participative learning.

**Experiential Learning:**

Mini Projects, Internships, Final Semester Projects, innovative projects and smart India hackathon are essential elements of each programme. Students will gain hands-on experience in an industrial environment during internship and industrial projects by means of solving real time problems.

During laboratory courses faculty members make effort to expose the students to practical experiments related to various courses in the curriculum.

#### Participative Learning:

Different methodologies that include Individual Based, Team Based and Project based are used to accelerate the learning process. Interaction and participation of students are seen to grasp concepts better and faster.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	Nil

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

ICT-enabled technologies and online resources are employed in the teaching-learning process to help students to improve their learning abilities. It allows monitoring of students' learning processes through online quizzes, online assignment submission, and so on. Google Classroom, WhatsApp learning group & online Zoom and Google meet platforms are used to effectively manage the teaching learning process.

Google Spreadsheet is created for different process related to teaching and learning process to enhance the data collection and processing. Link will be shared with faculty members and faculty members upload their student's attendance, internal assessment marks, tutorial and assignment presentation scores on the course and class they taught.

Google spread sheet and Google forms are also used to assess the various students outcome like students feedback on teachers, course end survey and exit survey. The course outcome attainment processes are simplified after the use of Google spread sheets.

General ICT Tools used by the faculties are:

Desktop and Laptops, Projectors, Printers, Photocopiers, Tablets. Surprise quizzes encourage class preparation, attendance and, ensure the students to participate in class discussion designed to reinforce learning. Smart Classroom, NPTEL Videos, Virtual labs. Zoom and Google meet platforms.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	Nil
Upload any additional information	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

172

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

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

The academic calendar includes the reopening dates, continuous internal assessments/ cycle tests, model exams for theory and practical courses, schedule for project reviews. The academic schedule given by Anna University for affiliated college is followed for third and final year students. Academic schedule prepared for autonomous batches is followed for first and second year students. Due to covid-19 pandemic the academic schedules prepared was changed based on the guidelines given by government of Tamilnadu and Anna University.

Faculty were instructed to prepare a detailed course plan for the theory and laboratory courses to be handled by them at the beginning of the semester containing weekly teaching contents, tutorials / assignments/presentations/ quizzes planned to

conduct, The various Outcome Based Education related parameters like Course objectives, course outcomes, CO-PO-PSO mapping, blooms taxonomy levels are also included in the course plan.

For the courses taught by multiple faculty members a common course plan was prepared with the discussion and participation of all the faculty members handling the particular course.

The syllabus coverage, change in academic schedule, additional arrangements to be made for the coverage of syllabus are discussed in the course committee meeting, department faculty meeting and HoDs meeting

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

206

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
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

54

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	<a href="#">View File</a>
Any additional information	No File Uploaded

**2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)****1889**

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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****25**

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year****302**

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

**The Office of Controller of Examinations of Velammal Engineering College is striving hard to bring the Examination Reforms by means of improving Examinations procedures, integrating tools of**



Information Technology (IT) and by incorporating continuous Internal Evaluation Component. There has been several positive impact of reforms on the examination procedures and the examination processes are run through a indigenous software called "Rovan EMS". The digital process flow consist of Student Registration, Pre- Examination, Post - Examination, Revaluation, review and graduation.

The integration of IT has modernized the entire examination process and has speeded up the functioning mechanism, while making the whole process more transparent and to ensure error free examination system.

Apart from End Semester Examinations (SEE), students are evaluated through Continuous Assessments (CIE) by individual departments. Continuous Internal Assessments are conducted for every courses of a particular Degree program in a centralized manner by Internal Exam Cell. The office of the Controller of Examinations maintains its constant touch through various meetings with the Heads of various academic departments, Deans, and Principal for smooth and up to date functioning of the examination system of the college.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

## 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

Course outcomes for all the courses, Program Outcomes, Program Specific Outcomes and Program Educational Objectives for all the programs are clearly formulated, specified, disseminated to all the stakeholders and published in the institute website.

The importance of COs, POs, PSOs and PEOs are highlighted to faculty members and students. Faculty members participated in the various FDPs, seminars and workshops related to Outcome Based Education, training programs conducted in the department levels and get trained about the importance of the OBE. The formation of

COs, Booms Taxonomy level, CO-PO-PSO mappings and its evaluation are discussed in the department level meetings.

The institution uses the following mechanism to convey learning outcomes to teachers and students. The learning outcomes are conveyed to students through Orientation programmes and starting of each course. Detailed curriculum, course outcomes, program outcomes, Program Specific Outcomes and assessment methodology for each course explained and given to students.

#### Links

<http://velammal.edu.in/mechanical-engineering-me/>

<http://velammal.edu.in/computer-science-and-engineering-cse/>

<http://velammal.edu.in/>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

##### course outcome attainment

Internal assessment question papers are framed with blooms level and relevant COs are included. After the tests are conducted, the papers are evaluated and marks are used to assess the CO attainment

Apart from the internal marks, other assessment tools such as assignments, seminars, quiz, laboratory tests, tutorials and oral tests are used to evaluate the COs. After the university examination results are published, the grade points obtained by the students are also considered for CO attainment.

##### PO and PSO Assessment Methods

The POs and PSOs are evaluated by direct and indirect assessment methods.

**Weightage: 80% for direct assessment and 20% for indirect assessment**

**Direct Assessment** At the end of every semester, the course outcome attainment for all the courses are calculated as described in the CO attainment process. At the end of the program, i.e., after all the courses are completed, PO and PSO attainment levels for a particular batch are evaluated based on the Course Outcomes attainment of all the courses through CO-PO-PSO mapping.

**Indirect Assessment** The exit survey collected from all the students at the end of the program and the co-curricular & extracurricular activities of the students are considered for indirect assessment.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

### 2.6.3 - Pass Percentage of students

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

**776**

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil

### 2.7 - Student Satisfaction Survey

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

<https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria2/>

[2.7.1\\_2021-22-Exit-survey-link\\_All-departments.pdf](#)

## 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

In serving faculty and administrators at the Institution and to assist in preparing and submitting proposals for sponsored project funding and managing sponsored research funds. Some of priority areas to match with 12th five years plan of Government of India are identified, including Agriculture, Water, Energy, Environment and Health. The designator Dean (R&D) is the steering leader for all the research activities that are being carried out at the Institution. Research Council (RC) from each department identifies thrust/niche areas and directs each cluster to pursue multi-disciplinary and inter-disciplinary research projects. The clusters are attached with relevant RC and carried out research projects. Cluster labs pertaining to the Research Council are initially to be formed by attaching existing research labs to relevant Research Councils. Equipment purchases are funded by research grants of individuals, departments, research groups or institutions. Research labs are setup from various sources of funding. The futuristic laboratories in the area of, Machine learning, Networked autonomous system, Big data and Cloud computing will be established through Industrial collaborations and funds to be received from various government agencies.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.1.1-Research-Policy.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.1.1-Research-Policy.pdf</a>
Any additional information	No File Uploaded

**3.1.2 - The institution provides seed money to its teachers for research****3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)****1.00**

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year****0**

File Description	Documents
e-copies of the award letters of the teachers	<b>No File Uploaded</b>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**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)****60.225**

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.2.2 - Number of teachers having research projects during the year****23**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<b>Nil</b>
List of research projects during the year	<a href="#">View File</a>

**3.2.3 - Number of teachers recognised as research guides****26**

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

**3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year****9**

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<b>Nil</b>
Any additional information	<a href="#">View File</a>

### 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.

Innovation & Startup policy of Velammal Engineering College mainly empowers the product development-oriented activities in the Institution. To foster an interest in invention, innovation, and an entrepreneurial lifestyle among the students the Startup Lab shall host a series of workshops and events like faculty-led competition on innovation in which students develop and present their inventions, seminars by expert people or experienced entrepreneurs to share their experience that could help to transform students' promising ideas into successful products. Product Development Competition is a chance for students to take all of the skills and knowledge learned in the institution and applies them to a real-world situation. Each participating students' team develops a new product idea and carries the concept through marketing and production, much like a commercial product development team. The Startup Lab is committed to providing students with access to the best minds in entrepreneurship. Guest speakers of exceptional entrepreneurial achievement visit the Startup Lab on a regular basis, building relationships among entrepreneurs, angel investors (provides capital for a business) and students. Such relationships support and nurture innovation and entrepreneurial skill among the student community of the institution.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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**

77

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4 - Research Publications and Awards

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

**A. All 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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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**

**72**

File Description	Documents
URL to the research page on HEI website	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.2-Research-supervisor-Link.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.2-Research-supervisor-Link.pdf</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded



**3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year****0.427**

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year****0,106**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.4-Book-Chapter-Link.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/NAAC-3.4.4-Book-Chapter-Link.pdf</a>

**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****23**

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

**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****2**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.5 - Consultancy

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

0.64

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
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	<a href="#">View File</a>
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 Engineering College encourages the students to participate in various extracurricular activities like NSS, NCC and YRC. Our college makes the students strong both physically and mentally. Our students are very enthusiastic when doing social activities like tree plantation, social awareness program, medical camp etc.

Every year YRC serving 'Nilavembu Kashayam' to students and staff to take care of their health in monsoon period where 'Dengue' fevers catches more. And, every year YRC and NSS jointly conducting Blood Donation Camp to help the human community and their lives. Also, we are conducting health campaign like 'Eye Camp', 'First Aid Awareness Camp' etc., Lake cleaning, Orphanage home visit and Old age home visit is also one of the best extension activities of our students.

NCC volunteers activities are, Swatch Bharat, Anti plastic rally, beach and water bodies cleaning activities etc.

Our Velammal Engineering College has accepted and hand over Hostels and Classrooms to Covid Care Centre, Chennai Corporation, Tamil Nadu during COVID-19 Pandemic period.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.6/3.6.1-Extension-Activities.pdf">https://velammal.edu.in/NAAC-assets/files/NAAC/2021-22/Criteria3/3.6/3.6.1-Extension-Activities.pdf</a>

**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**

6

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
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)**

49

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

1208

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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**

742

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 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 institution provides admirable infrastructural facilities for the teaching-learning experiences and rolls-out value added programmes & activities like Technical & Non-Technical Clubs, Activity based learning, Laboratory oriented theory classes which bridges the gaps in academic teaching and in par with industry requirements. The available physical infrastructure is optimally utilized beyond regular college hours to conduct certificate courses, co-curricular activities / extra - curricular activities, Campus Recruitment Training classes, campus recruitments, seminars, conferences.

**Classroom:** 69 Class Rooms are available and are equipped with all necessary ICT facilities to enhance the teaching learning process. The optimal utilization is ensured through encouraging innovative teaching - learning practices inside the classrooms through well experienced teachers. **Laboratories:** Spacious and well-furnished laboratories with good ventilation and lighting facilities are available. All laboratories are equipped with essential equipment to meet the requirements of the curriculum. Latest software & Tools are available to enable the students to work on their interest by participating in various technical clubs.

**Seminar Hall:** 3 Seminar halls equipped with ultra-modern LCD projector, computer workstation, audio-visual facilities and Internet facilities.

**Library:** The Library is Spacious and well ventilated. It is equipped with a large number of books and journals with Open

access facility.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

Velammal Engineering College strongly believes that a healthy body carries a healthy mind. Sports & Games play an integral part in the all-round development of the student. Keeping this in mind the institution has a definite policy and plan of action to encourage sports & games. The institute encourages students to participate in sports & games inside and outside the campus. Transport is provided to students to participate events outside the campus. Constant support from the management towards sports and games considerably enhances the health of the students and relieving the tension. In our effort we won number of tournaments. We're having sufficient area for sports and playing area for our students and we constructed comfortable courts for both boys and girls. The environment is eco-friendly which helps healthy playing conditions.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

72

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

**4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)****Rs. 150.10**

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
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)**

The Institute has a well established central library building. Library has a huge collection of Text books, Reference books and others books with foreign, peer-reviewed journals and bound volumes of journals. The reading room is well and provides conducive environment for study. A visitor record is maintained for students and faculty members, New Arrivals of books and journals are displayed on rack.

OPAC: The library has developed the database of its own collection through the library software. Library is fully computerized with barcode-based issue-and return process, online public access catalogue (OPAC) facility is made available in the central library. OPAC which is used students and faculty member for search of books by Title, Author, Subject name etc. e-Resources: Internet and reprography facility with computer system. CD's, DVD, CD-ROM databases, barcode scanner, printer are available in the library.

Library Automation: All the active book collection is update in the library software database and the online public access catalogue (OPAC) is available for students and faculty members. The issue and return of book have been activated in the library software.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**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	<a href="#">View File</a>
Upload any additional information	No File Uploaded

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

**Rs. 5.91**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

**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**

**731**

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
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

Yes, the Institute has an IT policy which is updated or amended whenever required as per the need of the institute. Institution tries to have upgradation IT facilities as per the requirement by regulatory norms. Institution is regularly upgrading its infrastructure covering Wi-Fi, software upgradation, ERP system, ICT enabled teaching learning. Formal IT policy has been approved by academic council. The acceptable use of policies are applicable to Employees, Students, Vendors and Visitors. Institutes have framed various policies like Procurement, Installation of Hardware, Network and software. Website Hosting and Database Usage policy has its method and hierarchy which is followed systematically. Certain violations of IT policy by any member may even result in disciplinary action against the offender by institution authorities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**4.3.2 - Student - Computer ratio**

Number of Students	Number of Computers
2819	850

File Description	Documents
Upload any additional information	No File Uploaded

**4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus**

A. 750 Mbps

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
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**

**A. All four of the above**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

#### **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)**

**Rs. 949.26**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	No File Uploaded

**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.**

**Velammal Engineering College has a well-framed infrastructure policy for proper maintenance and utilization of the physical, academic and support facilities. The responsibility for provisioning and maintaining infrastructure is jointly shared by different authorities of the Institution, under the overall leadership of the Management.**

**Established Systems and Procedures**

The Principal discusses with the Planning and Evaluation Committee and presents a report regarding physical, academic and support facilities. The CEO is empowered to deal with all matters pertaining to the acquisition, up-keeping and disposal of campus infrastructure.

An annual audit and inventory of the facilities is undertaken for assessment and evaluation.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

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

1528

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
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

18

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	<a href="#">View File</a>

#### 5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students'

A. All of the above

capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

2518

File Description	Documents
Any additional information	No File Uploaded
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**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	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	No File Uploaded
Upload any additional information	No File Uploaded

## 5.2 - Student Progression

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

596

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 5.2.2 - Number of outgoing students progressing to higher education

22

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
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

17

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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**

4

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

Velammal Engineering College provides an excellent avenue for the students to enhance their skills and shape up their talents by being part of various initiatives in academic and administrative committees, clubs and councils for implementing innovative practices, social justice among the students and enhance the stakeholders relationship at Institution-level.

Participation of students in the independent councils / committees and representation in different committees are shown below. In the case of Statutory Bodies, suggestions made by the representatives are recorded and considered for implementation.

Following committees, clubs, councils and cells are present in Velammal Engineering College.

1. CLASS COMMITTEE
2. INSTITUTE INNOVATION COUNCIL(IIC)
3. HOSTEL COMMITTEE
4. VELAMMAL ENTREPRENEURSHIP CELL (E-Cell)
5. NEWGEN INNOVATION & ENTREPRENEURSHIP DEVELOPMENT CENTRE
6. VEC CODERS CLUB
7. VEC LITERARY CLUB
8. VEC SPECTRUM CLUB
9. VEC MATHCLUB

10. VEC GREEN CLUB
11. NCC ARMY & NAVAL WING
12. YOUTH RED CROSS
13. NATIONAL SERVICE SCHEME (NSS)

Apart from these, as per guidelines of statutory bodies like AICTE /UGC /Anna University there are many other committees ,where students will actively participate and represent the issues in forum to solve the grievances.

1.INTERNAL COMPLIANCE COMMITTEE

2.SC ST COMMITTEE

3. GRIEVANCE REDRESSAL CELL

4.ANTI RAGGING COMMITTEE

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

21

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
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

Velammal Engineering College has got a very fine strength of Alumni who are pursuing their career worldwide. Alumni are always welcome to college to share their views in pursuing higher studies or career and give suggestions for the betterment of

their junior students. This provides an opportunity for the juniors to set right their goal. The alumni often visit the college during their available time and the need of the juniors institution to deliver Guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Through E Cell activities alumni who are entrepreneurs are invited to share their success stories at various occasions of the Institute. During placements alumni conducts GD and mock interview for shaping up the juniors to fair well in their placement process. Many alumni act as mentors for the juniors who have similar vision in career and their interests are common. With our strong alumni network the recent graduated batch of students are guided in a right manner to pursue their higher studies and career advancements.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

#### 5.4.2 - Alumni's financial contribution during the year

C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 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 educate the student community both by theory and practice to fit in with the society and to conquer tomorrow's technology at global level with human values through our dedicated team.

##### MISSION:

To provide world-class education in engineering, technology and management to foster research & development, encourage creativity, build leadership, intrapreneurship, entrepreneurship,



nurture teamwork and achieve stakeholder's delight.

The college, founded by Shri M.V.Muthuramalingam, Velammal Educational Trust, has a structured and transparent administrative system.

The Chief Executive officer of Velammal Educational Trust, Shri M.V.M. Velmurugan, formulates and administers the strategic policies for realization of the objectives of the college.

The Management Committee, Governing Body, Finance Committee, Academic Council, and Board of Studies, including nominees of AICTE and Anna University, are the statutory bodies of the institution which are responsible for strategic planning and decision making.

The Principal is the academic head and the primary decision-making authority. The administration is decentralized with specific powers vested in the faculties nominated to the Statutory Bodies/Committees.

Internal Quality Assurance Cell (IQAC), along with Principal, works for quality education. IQAC takes care of academic and administrative policies by preparing and planning in consultation with the Heads of Departments and senior members of the college.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

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

The Management Committee, in consultation with the Governing Body, formulates strategic plans, devises policies, and ensures successful implementation.

The Principal adopts and practises a policy of decentralisation through a delegation of duties and responsibilities. Authority entrusted on the Heads of the Departments to manage day-to-day operations.

Anti-ragging Committee, Disciplinary Committee, Students' Grievances Committee, Women Empowerment cell, Placement and Career Guidance, Entrepreneurship Development Cell, College Day, Calendar and Newsletter Committees have been duly constituted with faculties as Office Bearers, and students and other stakeholders as its members, thereby, making it participatory in nature.

Faculty representatives of the committees, along with the student representatives are involved in decision-making. Need-based and society-oriented academic programmes and courses are designed at the department level which is followed by seeking the management approval.

The Principal, Heads of departments and faculty members have been collaborating to launch new initiatives that aim at skill development, value added courses and employability enhancement courses through Memorandum of Understanding with National institutions/bodies. The effective leadership and participatory management are a testament to the successful decentralisation policies and practices of the institution

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf</a>

## 6.2 - Strategy Development and Deployment

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

The IIC model in Velammal Engineering College is designed to address the existing challenges/issues in HEIs such as less numbers, occasional and unplanned Innovation & Entrepreneurship (I&E) activities organised in HEIs with low involvement of top leadership, lack of coherence and absence of synergy in resource mobilization, deployment and underutilization of creative potential of youths as major barrier for vibrant I&E ecosystem to emerge from HEIs.

IIC model is unique and distinct as it integrates the functionalities of flexibility calendar activities, scoring and reward system, decentralizing operation with division of work, progress monitoring and incentive mechanisms in coordinated manner through a robust digital platform. In last two years, undoubtedly, IIC has emerged as a very sustainable and scalable model for promoting innovation within HEIs and the efforts of these IIC Institutes can be seen as impactful contribution towards making country's innovation and start-ups ecosystem more vibrant and dynamic. The recent achievement of India's 48th position in Global Innovation Index (GII) ranking is a reflection of the same.

#### Major Focus

- To create a vibrant local innovation ecosystem.
- Start-up supporting mechanism in HEIs.
- Prepare institute for Atal Ranking of institutions on innovation achievements framework
- Establish function ecosystem for scouting ideas and pre-incubation of ideas.
- Develop better cognitive ability among students.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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 College is managed by Velammal Educational Trust. The organisation structure of the institution is explicitly in line with the norms and stipulations laid down by the UGC and the affiliating body - Anna University.

The Management Committee formulates the strategic policies, plans and decisions for the overall development of the institution and

to achieve global standards with quality academia, research and social commitment.

The Governing Body acts as a major role for the effective implementation of the strategic plans and decisions. It is also involved in the decision-making process of matters pertaining to finance and administration, working towards the developmental goals set by the institution.

The Principal is entrusted with the sole responsibility of academic, examination and administrative operations, ably assisted by the heads of departments, teaching, administration staff and IQAC.

Policies, plans and budgets proposed by the Statutory Committees such as the Academic Council are routed through Finance Committee for the approval of the Governing Body.

Academic Council is authorised to approve courses, regulate and revise syllabi as per the recommendations of the Boards of Studies. Updating the curriculum to meet the demands of industry and formulating examination patterns are the prerogatives of the Boards of Studies.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chat.pdf</a>
Upload any additional information	<a href="#">View File</a>
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	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

### 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

- **Faculties :**

Institution encouraged to pursue their part-time Ph.D.'s Course work in the college with a fee concession.

Institution grants "ON-DUTY" permission for professional development programmes like conference and other training Programmes like FDP, STTP, Seminar and Workshop.

Institution grants "ON- DUTY" permission for valuation and other university affiliated works.

ESI, EPF, Medical facilities, Transport, Tuition fee concession to the children.

- **Career Development / Progression:**

All faculties are given promotion based on the fulfillment of AICTE Promotion policies and vacancy available in the department.

- **Non Teaching Faculties:**

ESI, EPF, Medical facilities, Transport, Tuition fee concession to the children, Work related facilities.

Staff under Grant in Aid Scheme are covered by Provident Fund and Contributory Pension Scheme

- **Official Welfare Measures:**

Internet facilities are made available to staff.

All blocks/buildings of the campus provided with ramps / elevator

- Career Development / Progression

Internal Training will be given to Non Teaching Faculty to enhance their skills in handling labs. Yearly increment given for their experience.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

146

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

13

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### **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.)**

112

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**6.4 - Financial Management and Resource Mobilization**
**6.4.1 - Institution conducts internal and external financial audits regularly**

The Tuition Fee is collected through the administrative department and deposited in a unique bank account. The same is used for the various administrative and academic expenses. The institution provides additional facilities like hostel, transport, food, exam fees etc. and the respective fee collected are used for the expenses under appropriate head.

A yearly budget is prepared strategically with the composition of pay allowances, recurring, nonrecurring expenses and regular maintenance establishment expenses. This budget is well monitored periodically, and the account statement is prepared at the end of the academic year. This annual account statement is duly audited by the chartered accountant.

The College Accounts Office in trust maintain accounts, receipts and payments, cash books, cheques issue register, vouchers and bills for financial transactions. The Finance Committee deliberates on financial management, resource mobilisation and utilisation for Controller of Examination accounts.

Internal Audit is conducted on a half yearly basis to ensure appropriate accounting and the management of financial resources.

Expenditure of semesters are collected on November and April of every year. This is verified by Internal Budget Committee Members.

External Audit is Conducted after the close of the financial year by the external auditor appointed by the Management - Velammal

**Educational Trust.**

Balance sheet providing the income and expenditure accounts are examined to understand the financial status of the institution.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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)**

**1357900**

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

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

Mobilisation of funds is very important as it provides the faculties to showcase their expertise to various agencies of Government of India and various industries. It is monitored by the head of the institution and the respective Department Head of the Department.

The sources of funds are

(a) Tuition fee

(b) Consultancy activities and revenue earned

(c) Sponsored projects

(d) Funds collected from IEDC and other resources for doing projects

(e) Management.



(f} Professional Societies like IEEE,SCI.

Governing body approves the funds allotted. Finance committee will audit and approve the funds for autonomous Examination related works. Faculty can apply and utilize research funds from various agencies like DST, AICTE, UGC.

Collected Funds are used for various academic, administrative works and faculty training courses. Academic purposes like equipment purchase, new lab setup, library book purchase and event organised for student welfare. Administrative expenses like electricity bill, Internet bill and various annual running expenditures.

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 goal of IQAC is to enhance and ensure the quality of academic and administrative performance of the institution by developing a system of conscious, consistent and continuous quality improvement.

Department of Mechanical Engineering, Automobile Engineering and Information Technology gone for NBA accreditation for compliance visit on May 2022. Department of Computer Science and Engineering, Department of Electronics and Communication Engineering, Department of Electronics and Instrumentation Engineering, Department of Electrical and Electronics Engineering and Department of Mechanical Engineering submitted SAR report on February 2022 and waiting for audit date.

IQAC conducted various internal audit and external audit to enhance the quality of NBA accreditation. Institute of Innovation Council Established in this year and various events are conducted

under various cell of IIC.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

#### Teaching Learning Review Process :

In PAC meeting the following points discussed

- Review the attainment of POs/ PSOs and action plans proposed for further improvement.
- Review the results of the 2020-21 academic year and propose the actions to improve the result
- NBA accreditation - Status of NBA accreditation work discussed
- Review of Industry - Institute Interaction done
- Review of Placement, Higher Studies and Entrepreneurship
- Students participation in Outside state for Co-Curricular and Extracurricular insisted.

Teaching learning process are reviewed under academic audits and external audits like ISO.

In BOS meeting, curriculum enrichment suggested and discussed by BOS committee members.

Various online courses, new online pedagogy techniques to implement for various courses will be discussed and planned.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the

A. Any 4 or all of the above

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)

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 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

For the purpose of engaging young female students, the Women Empowerment Cell arranges Women Empowerment lectures, awareness events, and other contests. Every class elects a female student to serve as the class representative. To promote women leaders, the female faculties are appointed as heads of various departments, cells and clubs. Girl students are encouraged to participate in NSS and NCC to serve the society and the country. The girl students are encouraged to actively participate in curricular, co-curricular as well as extracurricular activities.

#### Safety and security:

- Hostel and college premises have 24 x 7 security support with CC TV monitoring.
- Daily Attendance system is followed for monitoring the hostel female students and staff members. If absenteeism is noticed, it will be intimated to the parents after due verification.
- For fitness of girls, a separate gym and sports facility

with high-quality equipment are available in hostels in addition to regular facility.

- A students' counseling cell functions for helping students at times of their grievance, apart from the class advisors and academic coordinators.
- The health centre has rooms with cot facility, one consulting room and one waiting room for students to take rest on being unwell.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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**

**A. Any 4 or All of the above**

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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** -There are dustbins placed at specific points to prevent littering in the campus. Dry leaves are allowed to degrade over time in order to be used as manure in the institute's gardens. In the Ladies Hostel, separate containers are provided to separate napkins from other rubbish.

**LIQUID WASTE MANAGEMENT** -Sewage treatment plant is available to treat the liquid waste. A screening chamber and an aerator which supplies oxygen in the aeration tank for effective growth of microbes, secondary settling tank to remove the bio flocs and chlorination tank to destroy the pathogenic microbes in the

treated effluent are installed in the campus and properly maintained.

#### E-WASTE MANAGEMENT

E-waste approach has gained proper attention, and all electronic items are put to the best possible use. Minor repairs are performed by the staff and Laboratory assistants to correct the equipment, and major repairs are performed by expert technicians and reused. Electronic waste items are taken care by the Institute.

#### WASTE RECYCLING SYSTEM

The wastewater from the restrooms and toilets are collected and this collecting system makes sewage treatment and disposal more efficient and effective. The treated water is used in the garden.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

#### 7.1.5 - Green campus initiatives include

**7.1.5.1 - The institutional initiatives for**

A. Any 4 or All of the above

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**

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	<a href="#">View File</a>

#### 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**
- 5.Beyond the campus environmental promotional activities**

**D. Any 1 of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

**7.1.7 - The Institution has a disabled-friendly**

**C. Any 2 of the above**

**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.**

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
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).

VEC caters to a diversified environment in terms of culture, geography, languages, community, economic, and other features, and is a strong supporter for diversity in a variety of ways.

#### CULTURAL DIVERSITY

VEC accommodates the culturally diversified students by encouraging the exchange of cross-cultural ideas and celebration of the festivals of different culture.

#### REGIONAL DIVERSITY

Apart from students from Tamil Nadu's different districts, the institute also has students from other Indian states. Students from all areas are given equal opportunities to participate in co-curricular activities such as clubs and cells, as well as extra-curricular activities like as sports and cultural events.

## LINGUISTIC DIVERSITY

To bridge the gap between region-specific teaching and the expectations of students and faculty in other states, English is used as a medium of instruction in all courses.

## COMMUNAL DIVERSITY

This institute welcomes students and staff from all cultures and religions, demonstrating that the institute attempts to offer a welcoming atmosphere for everyone.

## SOCIO ECONOMIC DIVERSITY

Students from rural areas and low-income families attend the institute to study. To help students overcome socioeconomic challenges, the institution has helped them get scholarships and awards from state and central governments.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

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

The values are inculcated through courses in the curriculum, namely Universal Human Values and Professional Ethics & Human values. Through NSS, NCC, and other clubs, various programs are organized to make the students realize their rights, duties and responsibilities. The various programs organized are:

- Environmental awareness programs like guest lectures, rally, competition, planting trees, campus cleaning, plastic usage awareness programs
- Blood donation camps by NSS and other clubs
- Camps for enrolment of voter ID for the students made them aware of their rights and duties.
- Village adoption programs to understand the live hood of village and made our students to understand their responsibilities.



- During natural disasters, students are permitted to collect funds/ materials and distribute them to the affected people

Independence Day, Republic Day and Constitutional Day are celebrated to create awareness among the students about our Constitution, freedom struggle and our nation's history.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

**A. All of the above**

File Description	Documents
Code of Ethics - policy document	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

- VEC provides outstanding supports towards celebrating national and international commemorative days, events, and

festivals. Various cells and clubs are active in VEC for the benefit of students' community. These clubs and cells join together and celebrate various events; like, National-level events such as Independence Day, Republic Day, Teacher's Day, Gandhi Jayanti, Engineers Day, National Unity Day, Armed Forces Flag Day, NSS Day, NCC Day, International Yoga Day, International Women's Day, World Environment Day, Science Day, World Youth Day, World Water Day, World Population Day, and so on.

- National events such as Republic day and Independence Day aid to increase the unity among the students, promote the feelings of pride of our own country, which helps to raise the patriotic spirit among young minds.
- National and international leaders/scientists' commemorative days are celebrated to acknowledge their contribution towards the nation/society and to make students be aware of their services.
- Many programs are organized and celebrated to create the awareness to students on environment, physical and mental health, gender equality, national services, to know, protect and practice their citizenship rights, to give them knowledge about do's and don'ts.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
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

1. Innovation in education leads to better outcomes in college environment. Innovation refers to the introduction of new or improved products, processes, or services. Entrepreneurs and startups are key drivers of innovation and economic growth. The main goal is to a) Organize conferences, workshops, seminar and training to promote innovation. b)

encourage students to do more innovative projects that led to increase productivity, competitiveness, brand recognition, turn over, profit and economic growth

2. Intellectual property rights protect the rights of creators and inventors to their creations and inventions. It includes patents, trademarks, and copyrights. The main goal is to a) motivate students to do more funded projects that led to brand recognition, patent, and profit b) motivate to file patent for preservation of innovation, which is essential for better planning and commercialization c) enable student and faculty to establish a start up to market their innovative funded projects.

File Description	Documents
Best practices in the Institutional website	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/7.2.1-best-practice-2021-22.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/7.2.1-best-practice-2021-22.pdf</a>
Any other relevant information	Nil

### 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)

The distinctiveness of Velammal Engineering College has been explicated through the practical learning endeavors prevalent in the institution as Students learn by doing and engaging themselves in hands-on activities, leading to their overall development. Empirical learning is realized through Soft Skill Development, Confidence Building Measures, Communication Skills, Decision-Making Skills through organization of events, Computer Skills, Training to be Professionals and Personality Development Measures.

The college ranked number 1 and Number 6 in April /May 2021 examinations and November/December 2021 examinations among all the self finance Engineering colleges Affiliated to Anna University in Tamilnadu.

The placement department focuses on bringing the most relevant

professional opportunities for the learners through various initiatives and activities. 96.69% of the eligible students got placement. 250 companies visited to on campus for recruitment and the average salary was increased to 4.66 LPA.

Students are introduced to new concepts and they develop academic and professional research skills by doing Mini projects, research and projects.

The institution receive 4\* ratings in Institution Innovation council.

We have conducted 90 events related to Different types of I&E and IPR activities, 36 innovative products were developed by students and faculty members. 3 new Start-ups/Ventures established by students and faculty members.

File Description	Documents
Appropriate link in the institutional website	<a href="https://velammal.edu.in/wp-content/uploads/2023/05/distinctiveness-2021-22.pdf">https://velammal.edu.in/wp-content/uploads/2023/05/distinctiveness-2021-22.pdf</a>
Any other relevant information	<a href="#">View File</a>

### 7.3.2 - Plan of action for the next academic year

Promoting innovation in education will improve the quality of learning and understanding. Innovation involves a different way of approaching problems and solving them. The technical skill sets of students can be enhanced by arranging various guest lecture, workshop, training etc and encourage more students to participate in research related innovation activities. This paved the way to develop more products, thus to increase a larger number of startup and patent. The Quality Research can be enriched by publishing manuscripts in reputed journals indexed in SCI, Scopus and UGC. Signing enormous MoUs with industry to have more collaborative research oriented innovative projects.

Teaching learning process improved with the utilization of ICT in teaching. Inspiring & encouraging more staff members to apply and receive more funded projects and consultancy work. Strengthening the NIRF ranking of the institution and sustaining NBA accreditation. Engaging students in training for competitive examinations and inspiring students to crack higher studies Entrance Exams. Empowering them to participate in smart India Hackathon and design competitions. Arranging placement training

for the students and getting them placed in core companies, product and service companies with a mean salary of 5 lakhs and above.