



YEARLY STATUS REPORT - 2022-2023

Part A

Data of the Institution

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

• Financial Status	Self-financing
• Name of the IQAC Co-ordinator/Director	Dr.P.Visu
• Phone No.	04426590758
• Mobile No:	9884002675
• IQAC e-mail ID	iqac@velammal.edu.in
3.Website address (Web link of the AQAR (Previous Academic Year)	https://velammal.edu.in/
4.Was the Academic Calendar prepared for that year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	https://velammal.edu.in/wp-content/uploads/2022/06/HandBook-22-23.pdf

5.Accreditation Details

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

6.Date of Establishment of IQAC	07/08/2010
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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
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.	Higher Education cell for SC/ST	AICTE	14/03/2019	820000
Dr.Balajai Ganesh and Dr.A.Lakshmi Sangeetha	Innovate - Idea Hackton	MSME	27/06/2023	1500000
Velammal Engineering College	Incubator	MSME	30/06/2023	Nil
Velammal Engineering College	NewGen-IEDC	DST	01/11/2017	28700000

8.Provide details regarding the composition of the IQAC:

<ul style="list-style-type: none"> • Upload the latest notification regarding the composition of the IQAC by the HEI 	View File	
9.No. of IQAC meetings held during the year	2	

<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes	
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10. Did IQAC receive funding from any funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> If yes, mention the amount 		
11. Significant contributions made by IQAC during the current year (maximum five bullets)		
Received NIRF innovation Ranking 2023 in the band between 100 to 150. Recognized as host institute for implementation the incubation component under MSME innovative scheme/ Received 4 star rating in Institute Innovation Council.		
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	
Promote innovation among student and faculty members	Received 4* rating in Institution Innovation Council for the Academic Year 2022-23	
To promote Patent publication and Entrepreneurship skill	6 start ups and 15 patents filled during the academic year 2022-23	
NBA Re Accreditation for 5 departments	CSE, Civil, ECE, EIE and EEE got 3 years accreditation	
Apply for Research centre approval from Anna University	Mechanical, ECE and IT departments received research centre approval from Anna University	
13. Was the AQAR placed before the statutory body?	Yes	
<ul style="list-style-type: none"> Name of the statutory body 		

Name of the statutory body	Date of meeting(s)
IQAC Meeting	24/02/2024

14. Was the institutional data submitted to AISHE ?

Yes

- Year

Year	Date of Submission
2021-2022	22/12/2022

15. Multidisciplinary / interdisciplinary

In the proposed R2023 to support Multidisciplinary / Interdisciplinary activities the minor degree, Honors and Honor with specialization are offered to students. Students undergo 6 additional courses to earn additional degree. 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):

ABC ID is created for all the students. Implementation of uploading the data is in process. Velammal Engineering college has expressed the willingness to be a part of National Academic Depository to the University.

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 Heritage of Tamils, Tamils and Technology and course constitution of India are a mandatory course for all the programs

and is offered during first year. 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. Seven 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	View File

2.Student

2.1 2825

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2

608

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

2843

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

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

757

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

203

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1 12

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 2825

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 608

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 2843

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

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 757

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	203
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	184
Number of sanctioned posts for the year:	
4.Institution	
4.1	848
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	857.9
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	View File
Link for additional information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criterial/1.1.1/1.1.1PEOs-POs-COs%20Needs%20and%20relevanceAll.xlsx

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	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

742

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

1.2 - Academic Flexibility

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

89

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

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

12

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

1.3 - Curriculum Enrichment

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

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, promote gender equity among students and also deal with related issues of safety and security of female students, staff, and faculty. Class representatives are equal with both boys and girls. 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. All the activities are monitored by faculty in-charge at each institution/campus. 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 since inception. Students are given ample opportunity to learn about the climate change and potential hazards of climate change. 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.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

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

18

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above**1751**

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

1.3.4 - Number of students undertaking field work/projects/ internships / student projects**1468**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

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

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria1/1.4.2Feedbacklinkaldept.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

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

File Description	Documents
Provide URL for stakeholders' feedback report	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria1/1.4.2Feedbacklinkaldept.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

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

848

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

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

547

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

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

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	View File
Paste link for additional information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria2/2022-23_2.2.1.pdf

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/02/2024	3594	203

File Description	Documents
Upload any additional information	View File

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	View File
Link for additional Information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria2/2022-23_2.3.1.pdf

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	View File

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

2.3.3.1 - Number of mentors

166

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

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

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	View File

2.4 - Teacher Profile and Quality

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

203

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

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

70

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

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

1989

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

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

19

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

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

390

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

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

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	View File
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/>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria2/2022-23_2.6.1_-_ProgrammeOutcomes_Course_Outcomes_for_all_Programmes.pdf

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	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

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

602

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	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/2022-23/Criteria2/2022-23 2.7.1 Exit Survey All Departments.pdf](https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria2/2022-23%202.7.1%20Exit%20Survey%20All%20Departments.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	View File
Provide URL of policy document on promotion of research uploaded on the website	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria3/3.1.1Research_policy22-23.pdf
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)

1.4

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

3.2 - Resource Mobilization for Research

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

0.352

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

3.2.2 - Number of teachers having research projects during the year

6

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

30

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

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

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

3.3 - Innovation Ecosystem

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

Innovation & Startup policy of Velammal Engineering College mainly empowerstheproductdevelopment-oriented activities in the institution. To foster an interest in invention, innovation, and anentrepreneurial lifestyle among the students the Startup Lab shallhost 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 relationship support and nurture innovation and entrepreneurial skill among the student community of the institution.

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

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

83

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

3.4 - Research Publications and Awards

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

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	View File
Any additional information	No File Uploaded

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

71

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

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

126

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

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

82

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

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

3.4.5.1 - Total number of Citations in Scopus during the year

47

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

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

3.4.6.1 - h-index of Scopus during the year

4

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

54430

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	View File

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

0

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

3.6 - Extension Activities

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

Velammal Engineering College encourage the students to participate in various extracurricular activities conducted by NSS, NCC and YRC. Our students are very enthusiastic when doing social activities like tree plantation, social awareness program, medical camp etc. We have conducted health campaign like Eye Camp, First Aid Awareness Camp, Lake cleaning, Orphanage home visit, Old age home visit, Self defense for women, Mental Health Awareness, Cleanliness event, Earth ball making and Blood donation camp programme by NSS, NCC and YRC. Our volunteers were actively participated in many social awareness program in nearby places. Particularly YRC volunteers teach the basic subject to under

privileged students they are situated around the Bridge is called "Bridge Project". Our volunteers often visit to orphanage home and old age home and entertain the people more happy. Some of the outreach activities are presented here. There are nearly 4600 students involved in many extra curriculum activities it is listed in 3.6.3.

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

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

14

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

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)

65

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

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

2330

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

3.7 - Collaboration

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

1147

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

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

49

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The 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	View File
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	View File
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	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

Rs. 59.32

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

4.2 - Library as a Learning Resource

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

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	View File
Paste link for additional information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria3/NAAC%203.4.4Final_links.xlsx

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

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

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

Rs. 15.35

File Description	Documents
Audited statements of accounts	View File
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)	View File

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

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

591

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

4.3 - IT Infrastructure

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

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	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2825	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	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development:

A. All four of the above

Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

Rs 798.58

File Description	Documents
Audited statements of accounts	View File
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	View File
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

1586

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

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

21

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

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

A. All of the above

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	View File
Any additional information	View File

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

1008

File Description	Documents
Any additional information	No File Uploaded
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

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

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	No File Uploaded
Upload any additional information	View File

5.2 - Student Progression

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

470

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

11

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

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

15

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

5.3 - Student Participation and Activities

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

62

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

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

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

5.PoSH Committee

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

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

21

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

5.4 - Alumni Engagement

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

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	View File
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	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

VISION:

To 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 UGC and Anna University, are the statutory bodies of the institution which are responsible for strategic planning and decision making.

Under the able leadership of the principal, the institution has made remarkable progress in academics, research, placement, and infrastructure. It has greatly contributed to environmental sustainability and displayed strong commitment to social development which is in line with the vision and mission of the institution. The principal conducts periodic meetings with the heads of departments and faculties for planning, evaluation, follow-up and up-gradation.

The Principal is the academic head and the primary decision-making authority. Deans of various role coordinates Academic, Planning, Corporate relationship, Student affairs, Faculty, Research and Accreditation.

File Description	Documents
Upload any additional information	View File
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 Deans and Heads of the Departments to manage day-to-day operations.

Anti-ragging Committee, Disciplinary Committee, Students' Grievances & Counselling, Women Empowerment cell, Sports Advisory, Placement and Career Guidance, Entrepreneurship Development Cell, College Day, Finance Committee, Research Committee, IQAC, Planning and Monitoring Committee, Institute Innovation Cell, Intellectual Property rights Cell, 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, Deans, 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 and International 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	View File
Upload any additional information	View File
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

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

The college is actively promoting innovation and entrepreneurship to improve its NIRF Innovation Ranking, aligned with the Indian government's emphasis on fostering a culture of research and development in higher education. Key initiatives include the Institute Innovation Council, Entrepreneurship Cell, IPR Cell, competitions, and the IEDC New Gen Park. Success is evidenced by a thriving research ecosystem, numerous patents, industry collaborations, and recognition from the Ministry of Education and MSME. Challenges include the need for financial investments, expert mentoring, industry collaborations, and cultural fostering. To address these, strategic planning, partnerships, government grants, and community engagement are recommended, along with continued documentation of successes for future evaluations.

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

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

The 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. The Governing Body 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 and administrative operations, ably assisted by the Deans and heads of departments, teaching, administration staff and IQAC.

Deans of various role coordinates Academic, Planning, Corporate relationship, Student affairs, Faculty, Research and Accreditation. Policies, plans and budgets proposed by the Statutory Committees such as the Academic Council are routed through the 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/evaluation patterns are the prerogatives of the Boards of Studies.

The Controller of Examinations is assigned the authority and responsibility for the entire process of examinations from registration to results, including grievance redressal.

File Description	Documents
Paste link to Organogram on the institution webpage	https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chart.pdf
Upload any additional information	View File
Paste link for additional Information	Nil

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	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 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, Loyalty benefits, Tuition fee concession to the children.

Institution offers Promotion to staff members based on AICTE policies and vacancy exists.

- **Non Teaching Faculties:**

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

- **Retirement Benefits:**

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

Staff under Management / Self Supporting streams covered by Employees Provident Fund Scheme.

- **Official Welfare Measures:**

Staff provided with e-mail using the institution's domain.

Internet facilities are made available to staff.

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

File Description	Documents
Upload any additional information	No File Uploaded
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

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

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

11

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

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

158

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

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 estimated 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 Office and Accounts Officer maintain accounts, receipts and payments, cash books, cheque books, cheques issue register and vouchers and bills for financial transactions. The Finance Committee deliberates on financial management, resource mobilisation and utilisation of Controller of Examination accounts. All other college expenses are discussed and approved in Governing body meeting.

Internal Audit :

Internal Audit is conducted on a half yearly basis to ensure appropriate accounting and the management of financial resources for College Account and Controller of Examinations account.

External Audit :

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	No File Uploaded
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)

0

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

Governing body approves the funds allotted and collegespend the same in those heads. Finance committee will audit and approve the funds for autonomous Examination related works. There is separate section dealing with Continuing education programmes and industrial consultancy. Faculty can apply and utilize research funds from various agencies like DST, AICTE, UGC.

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)

First IQAC Meeting (2022-23)Held on 17.09.2022 at 2.30 pm in Board room

Second IQAC Meeting (2022-23)Held on 11.02.2023 at 2.30 pm in Board room

Members are

Dr.S.Satish Kumar, Principal, Chairperson, IQAC

HOD's of all Departments

Dr.V.Jeyabalaraja, Administrative Officer

Dr.S.Srinath, Controller of Examination - Administrative officer

Dr.A.Balaji Ganesh, Dean, Research & Development- Administrative officer

Mr.A.Arun Ramaswami,Senior Placement Officer , Administrative officer

Mr.R.Kumar, AVP(Finance), Velammal Educational Trust -Member Management

Dr.S.Koteeswaran, Treasurer, IEEE Computer Society, Madras Chapter

Mr.V.Ananth Sai Shankar (113219081009), 4th Year Mechanical

Ms.C.Janani (113219041042), 4th Year ECE,

Ms.Manibharathi R, Global Analytics, Chennai - Alumni Member

Mr.Aravind R, MD, Vetri pressing Pvt limited-Member Employers

Mr.Ragavendiran Balasubramanian, Director, Heptre Techworks Pvt Ltd- member Industry

Dr.P.Visu, Professor, Dept.of CSE - Coordinator

Agenda:

- Action taken based on previous meeting held on 17.09.2022
- Activities Completed – Status Report for the Period Aug 2022 to Jan 2023
- Activities Planned for the Period Feb 2023 to July 2023.
- Other points

File Description	Documents
Upload any additional information	View File
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 and Evaluation-

- As per the guidelines given by Affiliated University (Anna University Chennai) the new amendments are made from 2021-22 admitted batch onwards for passing criteria.

Research, innovations and Extensions:

- Number of quality research paper publications to be increased to 2 per faculty.
- Concentrate on Product development and Patent granted.
- Conduction of Workshops related to Patent, Startups and Innovations.
- Research projects with the worth of Rs 50 lakhs/ department during the academic year 2022-23.
- Research Centre – Eligible departments to apply and get the research centre.
- Non-Eligible Departments to plan and meet out eligibility within 6 months.

Establish new labs for AIDS Department

- Increase participation of students in Design and SIH Competitions. Each department get at least 1st prize in design competition/ SIH.
- Governance and Leadership-Enrollment and successful completion of NPTEL courses in emerging thrust areas/ OBE 1 per faculty.

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

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

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://velammal.edu.in/wp-content/uploads/2022/02/VEC-Mandatory-Disclosure-2022-23.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

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 CCTV monitoring.
- Campus provides safe environment to the girls by providing multi-layer safety features. Entire campus is safe by maintaining electronic security system. Cameras are installed to ensure safe check-in and check-out of student.
- 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	View File
Paste link for additional Information	Nil

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

A. Any 4 or All of the above

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

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

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	View File
Any other relevant information	View File

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

A. Any 4 or all of the above

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

7.1.5 - Green campus initiatives include

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

A. Any 4 or All of the above

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

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

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:

A. Any 4 or all 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	View File

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

B. Any 3 of the above

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

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)	View File

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	View File
Any other relevant information	No File Uploaded

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

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

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	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

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

1.Promoting Innovation on Research & Development

Innovation on Research and Development (R&D) is the process of developing and commercializing new ideas, developing new products. During this year the Number of Workshops/Seminars conducted on Innovation, Research Methodology, Entrepreneurship and Skill Development organized are around 80 that paved a way for enhancing their skills and interest towards innovation. The number of IPR filed is around 25 and 6 startups are registered. NIRF appreciation from Ministry of Education for the innovation activities conducted for the year 2023 was 101 – 150 Band range. Ministry of Micro, Small & Medium Enterprises (MSME) recognized Velammal Engineering College for implementation of the incubation component under MSME Innovation Scheme.

2 Promoting Outreach Activities in Social service

Velammal Engineering College develop social and civic responsibility among students' community. Also, develop competence required for group-living and sharing of responsibilities. So that, students acquire leadership qualities and democratic attitudes. Practice national integration and social harmony to students by conducting social and health awareness programmes. Awareness on the care of their own health and that of others. To encourage the students to extend their humanitarian services to the society.

File Description	Documents
Best practices in the Institutional website	https://velammal.edu.in/wp-content/uploads/2022/07/best-practice-2022-2023_final.pdf
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)

Students are exposed to a greater number of Skill Development Programs. Students are trained to become high quality professionals. Students are improving their self-confidence to face interviews, group discussions and debates.

Students are introduced to new concepts and they develop academic and professional research skills by doing Mini projects, participating in various design related competitions etc.,

Students-Organized Symposiums, Conferences/Techno-cultural Fests, Club activities and getting experiences to inculcate leadership and organizational skills.

Entrepreneurship Development Club, Innovation Cell, IEDC, Exhibitions and Start-ups in the college are platforms to ignite the innovative skills of students. Through innovation, students not only exhibit their creative ideas, but also learn to further improve their innovative skills. Hundreds of innovative ideas are evolved through the Innovation Cell.

In the Smart India Hackathon 2022 conducted by AICTE, one team

from the college was shortlisted based on the merit of their ideas and bagged the first prize for developing a Bot for answering the queries related to AICTE in all regional Languages of India.

Students from various departments participated in the design competitions conducted by society of automotive engineers and secured top positions.

Motivated final year students by giving awards for their academic and research achievements during the Riddhi event.

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	View File
Link for additional information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria1/1.1.1/1.1.1PEOs-POs-COs%20Needs%20and%20relevanceAll.xlsx

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	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year**742**

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

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year****89**

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

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

12

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

1.3 - Curriculum Enrichment

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

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, promote gender equity among students and also deal with related issues of safety and security of female students, staff, and faculty. Class representatives are equal with both boys and girls. 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. All the activities are monitored by faculty in-charge at each institution/campus. 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 since inception. Students are given ample opportunity to learn about the climate change and potential hazards of climate change. 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.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

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

18

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

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

1751

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

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

1468

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

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

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criterial/1.4.2Feedbacklinkalldept.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

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

File Description	Documents
Provide URL for stakeholders' feedback report	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criterial/1.4.2Feedbacklinkalldept.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION**2.1 - Student Enrollment and Profile****2.1.1 - Enrolment of Students**

2.1.1.1 - Number of students admitted (year-wise) during the year**848**

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

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)**547**

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

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

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	View File
Paste link for additional information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria2/2022-23_2.2.1.pdf

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/02/2024	3594	203

File Description	Documents
Upload any additional information	View File

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	View File
Link for additional Information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria2/2022-23_2.3.1.pdf

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	View File

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

2.3.3.1 - Number of mentors

166

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

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

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	View File

2.4 - Teacher Profile and Quality

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

203

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

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

70

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

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

1989

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

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

19

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

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

390

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

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

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	View File
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/>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria2/2022-23_2.6.1 - ProgrammeOutcomes Course Outcomes for all Programmes.pdf

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	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

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

602

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	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/2022-23/Criteria2/2022-23_2.7.1_Exit_Survey_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	View File
Provide URL of policy document on promotion of research uploaded on the website	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria3/3.1.1Research_policy22-23.pdf
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)

1.4

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

3.2 - Resource Mobilization for Research

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

0.352

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

3.2.2 - Number of teachers having research projects during the year

6

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

30

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

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

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

3.3 - Innovation Ecosystem

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

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 relationshipssupport and nurture innovation and entrepreneurial skill among the student community of the institution.

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

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

83

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

3.4 - Research Publications and Awards

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

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	View File
Any additional information	No File Uploaded

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	
71	
File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded
3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year	
126	
File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File
3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year	
82	
File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed	
3.4.5.1 - Total number of Citations in Scopus during the year	
47	

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

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

3.4.6.1 - h-index of Scopus during the year

4

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

54430

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	View File

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

0

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

3.6 - Extension Activities

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

Velammal Engineering College encourage the students to participate in various extracurricular activities conducted by NSS, NCC and YRC. Our students are very enthusiastic when doing social activities like tree plantation, social awareness program, medical camp etc. We were conducted health campaign like Eye Camp, First Aid Awareness Camp, Lake cleaning, Orphanage home visit, Old age home visit, Self defense for women, Mental Health Awareness, Cleanliness event, Earth ball making and Blood donation camp programme by NSS, NCC and YRC. Our volunteers were actively participated in many social awareness program in nearby places. Particularly YRC volunteers teach the basic subject to under privileged students they are situated around the Bridge is called "Bridge Project". Our volunteers often visit to orphanage home and old age home and entertain the people more happy. Some of the outreach activities are presented here. There are nearly 4600 students involved in many extra curriculum activities it is listed in 3.6.3.

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

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

14

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

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)

65

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

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

2330

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

3.7 - Collaboration

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

1147

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

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

49

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The 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	View File
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	View File
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	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

Rs. 59.32

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

4.2 - Library as a Learning Resource

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

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	View File
Paste link for additional information	https://velammal.edu.in/NAAC-assets/files/NAAC/2022-23/Criteria3/NAAC%203.4.4Final_links.xlsx

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

A. Any 4 or more of the above

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

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

Rs. 15.35

File Description	Documents
Audited statements of accounts	View File
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)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)**4.2.4.1 - Number of teachers and students using the library per day during the year****591**

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

4.3 - IT Infrastructure

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

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	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2825	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	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)**Rs 798.58**

File Description	Documents
Audited statements of accounts	View File
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	View File
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**

1586

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

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

21

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

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

A. All of the above

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	View File
Any additional information	View File

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

1008

File Description	Documents
Any additional information	No File Uploaded
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

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

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	No File Uploaded
Upload any additional information	View File

5.2 - Student Progression

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

470

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

11

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

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

15

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

5.3 - Student Participation and Activities

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

62

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

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

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**5.PoSH Committee**

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

5.3.3 - Number of sports and cultural events / competitions organised by the institution**21**

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

5.4 - Alumni Engagement

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

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	View File
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	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

VISION:

To 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 UGC and Anna University, are the statutory bodies of the institution which are responsible for strategic planning and decision making.

Under the able leadership of the principal, the institution has made remarkable progress in academics, research, placement, and infrastructure. It has greatly contributed to environmental sustainability and displayed strong commitment to social development which is in line with the vision and mission of the institution. The principal conducts periodic meetings with the heads of departments and faculties for planning, evaluation, follow-up and up-gradation.

The Principal is the academic head and the primary decision-making authority. Deans of various role coordinates Academic, Planning, Corporate relationship, Student affairs, Faculty, Research and Accreditation.

File Description	Documents
Upload any additional information	View File
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 Deans and Heads of the Departments to manage day-to-day operations.

Anti-ragging Committee, Disciplinary Committee, Students' Grievances & Counselling, Women Empowerment cell, Sports Advisory, Placement and Career Guidance, Entrepreneurship Development Cell, College Day, Finance Committee, Research Committee, IQAC, Planning and Monitoring Committee, Institute

Innovation Cell, Intellectual Property rights Cell, 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, Deans, 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 and International 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	View File
Upload any additional information	View File
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

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

The college is actively promoting innovation and entrepreneurship to improve its NIRF Innovation Ranking, aligned with the Indian government's emphasis on fostering a culture of research and development in higher education. Key initiatives include the Institute Innovation Council, Entrepreneurship Cell, IPR Cell, competitions, and the IEDC New Gen Park. Success is evidenced by a thriving research ecosystem, numerous patents, industry collaborations, and recognition from the Ministry of Education and MSME. Challenges include the need for financial investments, expert mentoring,

industry collaborations, and cultural fostering. To address these, strategic planning, partnerships, government grants, and community engagement are recommended, along with continued documentation of successes for future evaluations.

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

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

The 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. The Governing Body 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 and administrative operations, ably assisted by the Deans and heads of departments, teaching, administration staff and IQAC.

Deans of various role coordinates Academic, Planning, Corporate relationship, Student affairs, Faculty, Research and Accreditation. Policies, plans and budgets proposed by the Statutory Committees such as the Academic Council are routed through the 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/evaluation patterns are the prerogatives of the Boards of Studies.

The Controller of Examinations is assigned the authority and responsibility for the entire process of examinations from registration to results, including grievance redressal.

File Description	Documents
Paste link to Organogram on the institution webpage	https://velammal.edu.in/wp-content/uploads/2023/05/Oganizational-Chart.pdf
Upload any additional information	View File
Paste link for additional Information	Nil

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	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 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, Loyalty benefits, Tuition fee concession to the children.

Institution offers Promotion to staff members based on AICTE policies and vacancy exists.

- Non Teaching Faculties:

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

- Retirement Benefits:

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

Staff under Management / Self Supporting streams covered by Employees Provident Fund Scheme.

- Official Welfare Measures:

Staff provided with e-mail using the institution's domain.

Internet facilities are made available to staff.

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

File Description	Documents
Upload any additional information	No File Uploaded
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

76

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

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

11

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

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

158

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

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 estimated 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 Office and Accounts Officer maintain accounts, receipts and payments, cash books, cheque books, cheques issue register and vouchers and bills for financial transactions. The Finance Committee deliberates on financial management, resource mobilisation and utilisation of Controller of Examination accounts. All other college expenses are discussed and approved in Governing body meeting.

Internal Audit :

Internal Audit is conducted on a half yearly basis to ensure appropriate accounting and the management of financial resources for College Account and Controller of Examinations account.

External Audit :

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	No File Uploaded
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)

0

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

Governing body approves the funds allotted and collegespend the same in those heads. Finance committee will audit and approve the funds for autonomous Examination related works. There is separate section dealing with Continuing education programmes and industrial consultancy. Faculty can apply and utilize research funds from various agencies like DST, AICTE, UGC.

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)

First IQAC Meeting (2022-23)Held on 17.09.2022 at 2.30 pm in Board room

Second IQAC Meeting (2022-23)Held on 11.02.2023 at 2.30 pm in Board room

Members are

Dr.S.Satish Kumar, Principal, Chairperson, IQAC

HOD's of all Departments

Dr.V.Jeyabalaraja, Administrative Officer

Dr.S.Srinath, Controller of Examination - Administrative officer

Dr.A.Balaji Ganesh, Dean, Research & Development-Administrative officer

Mr.A.Arun Ramaswami,Senior Placement Officer , Administrative officer

Mr.R.Kumar, AVP(Finance), Velammal Educational Trust -Member Management

Dr.S.Koteeswaran, Treasurer, IEEE Computer Society, Madras Chapter

Mr.V.Ananth Sai Shankar (113219081009), 4th Year Mechanical

Ms.C.Janani (113219041042), 4th Year ECE,

Ms.Manibharathi R, Global Analytics, Chennai - Alumni Member

Mr.Aravind R, MD, Vetri pressing Pvt limited-Member Employers

Mr.Ragavendiran Balasubramanian, Director, Heptre Techworks Pvt

Ltd- member Industry

Dr.P.Visu, Professor, Dept.of CSE - Coordinator

Agenda:

- Action taken based on previous meeting held on 17.09.2022
- Activities Completed - Status Report for the Period Aug 2022 to Jan 2023
- Activities Planned for the Period Feb 2023 to July 2023.
- Other points

File Description	Documents
Upload any additional information	View File
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 and Evaluation-

- As per the guidelines given by Affiliated University (Anna University Chennai) the new amendments are made from 2021-22 admitted batch onwards for passing criteria.

Research, innovations and Extensions:

- Number of quality research paper publications to be increased to 2 per faculty.
- Concentrate on Product development and Patent granted.
- Conduction of Workshops related to Patent, Startups and Innovations.
- Research projects with the worth of Rs 50 lakhs/ department during the academic year 2022-23.
- Research Centre - Eligible departments to apply and get the research centre.
- Non-Eligible Departments to plan and meet out eligibility

within 6 months.

Establish new labs for AIDS Department

- Increase participation of students in Design and SIH Competitions. Each department get at least 1st prize in design competition/ SIH.
- Governance and Leadership-Enrollment and successful completion of NPTEL courses in emerging thrust areas/ OBE 1 per faculty.

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

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

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://velammal.edu.in/wp-content/uploads/2022/02/VEC-Mandatory-Disclosure-2022-23.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

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 CCTV monitoring.
- Campus provides safe environment to the girls by providing multi-layer safety features. Entire campus is safe by maintaining electronic security system. Cameras are installed to ensure safe check-in and check-out of student.
- 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	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for

A. Any 4 or All of the above

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

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

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

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	View File
Any other relevant information	View File

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

A. Any 4 or all of the above

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

7.1.5 - Green campus initiatives include

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

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

A. Any 4 or All of the above

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

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**

A. Any 4 or all 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	View File

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

B. Any 3 of the above

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

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)	View File

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	View File
Any other relevant information	No File Uploaded

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

A. All of the above

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

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	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

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

1.Promoting Innovation on Research & Development

Innovation on Research and Development (R&D) is the process of developing and commercializing new ideas, developing new products. During this year the Number of Workshops/Seminars conducted on Innovation, Research Methodology, Entrepreneurship and Skill Development organized are around 80 that paved a way for enhancing their skills and interest towards innovation. The number of IPR filed is around 25 and 6 startups are registered. NIRF appreciation from Ministry of Education for the innovation activities conducted for the year 2023 was 101 - 150 Band range. Ministry of Micro, Small & Medium Enterprises (MSME) recognized Velammal Engineering College for

implementation of the incubation component under MSME Innovation Scheme.

2 Promoting Outreach Activities in Social service

Velammal Engineering College develop social and civic responsibility among students' community. Also, develop competence required for group-living and sharing of responsibilities. So that, students acquire leadership qualities and democratic attitudes. Practice national integration and social harmony to students by conducting social and health awareness programmes. Awareness on the care of their own health and that of others. To encourage the students to extend their humanitarian services to the society.

File Description	Documents
Best practices in the Institutional website	https://velammal.edu.in/wp-content/uploads/2022/07/best-practice-2022-2023_final.pdf
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)

Students are exposed to a greater number of Skill Development Programs. Students are trained to become high quality professionals. Students are improving their self-confidence to face interviews, group discussions and debates.

Students are introduced to new concepts and they develop academic and professional research skills by doing Mini projects, participating in various design related competitions etc.,

Students-Organized Symposiums, Conferences/Techno-cultural Fests, Club activities and getting experiences to inculcate leadership and organizational skills.

Entrepreneurship Development Club, Innovation Cell, IEDC, Exhibitions and Start-ups in the college are platforms to ignite the innovative skills of students. Through innovation,

students not only exhibit their creative ideas, but also learn to further improve their innovative skills. Hundreds of innovative ideas are evolved through the Innovation Cell.

In the Smart India Hackathon 2022 conducted by AICTE, one team from the college was shortlisted based on the merit of their ideas and bagged the first prize for developing a Bot for answering the queries related to AICTE in all regional Languages of India.

Students from various departments participated in the design competitions conducted by society of automotive engineers and secured top positions.

Motivated final year students by giving awards for their academic and research achievements during the Riddhi event.

File Description	Documents
Appropriate link in the institutional website	https://velammal.edu.in/wp-content/uploads/2022/07/Distinctiveness-22-23_final.pdf
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

Plan for the next Academic Year 2023-24

1. Submission of NAAC- Annual Quality Assurance Report 2022-23
2. Preparation of Self Study Report (SSR)
 1. NAAC Reaccreditation to secure A++
3. To Complete the Process for ISO Recertification
4. To get NBA Accreditation (next cycle) for 5 UG programs Civil Engineering, CSE, EEE, ECE and EIE.
 1. Preparation of SAR to apply for next cycle accreditation (8 departments) in the Month of September 2024
5. To improve positions in NIRF Ranking 2024
6. Encourage more students to participate in Hackathons and design competitions, thus Secure a greater number of Prizes
7. To Apply and Get approval for research centers - Civil, AIDS, EIE and Automobile departments
8. Motivate students to develop more innovative products, thus to increase number of start-up and patent.

9. Arranging placement training for the students and getting them placed in core companies, product and service companies with a mean salary of 6 lakhs and above.
10. Empowering students to focus more on Quality Research, increasing publications in reputed journals indexed in SCI, Scopus and UGC.
11. Target fixed for academic parameters and action plan is framed
12. To Offer Minor degree/ Honours/ Honours with Specialization