



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

1. Name of the Institution	VELAMMAL ENGINEERING COLLEGE
Name of the head of the Institution	Dr.N.Duraipandian
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04439666010
Mobile no.	9123547591
Registered Email	principal@velammal.edu.in
Alternate Email	viceprincipal@velammal.edu.in
Address	Velammal New-Gen park,Ambattur -Redhills Road
City/Town	Chennai
State/UT	Tamil Nadu
Pincode	600066

<b>2. Institutional Status</b>																									
Affiliated / Constituent			Affiliated																						
Type of Institution			Co-education																						
Location			Urban																						
Financial Status			private																						
Name of the IQAC co-ordinator/Director			Dr.S.Srinath																						
Phone no/Alternate Phone no.			09941137212																						
Mobile no.			9941811669																						
Registered Email			drsrinath@velammal.edu.in																						
Alternate Email			coe@velammal.edu.in																						
<b>3. Website Address</b>																									
Web-link of the AQAR: (Previous Academic Year)			<a href="http://www.velammal.edu.in/pdf/VEC-AQAR-17-18.pdf">http://www.velammal.edu.in/pdf/VEC-AQAR-17-18.pdf</a>																						
<b>4. Whether Academic Calendar prepared during the year</b>			Yes																						
if yes,whether it is uploaded in the institutional website: Weblink :			<a href="http://www.velammal.edu.in/pdf/handbook-2019-2020.pdf">http://www.velammal.edu.in/pdf/handbook-2019-2020.pdf</a>																						
<b>5. Accrediation Details</b>																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.27</td> <td>2009</td> <td>30-Sep-2009</td> <td>30-Sep-2014</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.07</td> <td>2016</td> <td>17-Mar-2016</td> <td>17-Mar-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.27	2009	30-Sep-2009	30-Sep-2014	2	A	3.07	2016	17-Mar-2016	17-Mar-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	A	3.27	2009	30-Sep-2009	30-Sep-2014																				
2	A	3.07	2016	17-Mar-2016	17-Mar-2021																				
<b>6. Date of Establishment of IQAC</b>			07-Aug-2010																						
<b>7. Internal Quality Assurance System</b>																									
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date &amp; Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries														
Quality initiatives by IQAC during the year for promoting quality culture																									
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries																							

Teaching and development - FDP on E- content development	29-Mar-2019 1	40
Brainstorming activity on Roles & Responsibilities	26-Oct-2018 1	101
No Files Uploaded !!!		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. A. Nirmalraj	PMYUVA Yojana	National Entrepreneurship Resource And Coordination Hub(National E-Hub)	2016 5	1050000
Dr. R. Umamaheswari	Young Scientist And Technologists	Government of India, Ministry Of Science & Technology	2018 3	2093300
Dr. P. Visu	Prerana	All India Council for Technical Education (AICTE)	2018 1	820000
Dr. V. R. Ravi	Modernization and Removal of Obsolescence (MODROB)Modernization and Removal of Obsolescence (MODROB)	All India Council for Technical Education (AICTE)	2018 1	955200
Dr. K. Rajamani	DST- NIMAT Project 2018-19	Entrepreneurship development Institute Of India	2018 1	1050000
Dr. P. Jawahar	Students Project	Tamilnadu State Council For Science And Technology (TNSCST)	2018 1	7500
Dr. J. S. Leena Jasmine	Students Project	Tamilnadu State Council For Science And Technology (TNSCST)	2018 1	7500
Dr. S. Chakavarthi	Students Project	Tamilnadu State Council For Science And	2018 1	6000

		Technology (TNSCST)		
Dr. R. Sudharsanan	Students Project	Tamilnadu State Council For Science And Technology (TNSCST)	2018 1	7500
<a href="#">View File</a>				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>
<ul style="list-style-type: none"> <li>• National Board of Accreditation compliance audit on 29th June 2018 for Department of Civil Engineering and Electrical and Electronics Engineering</li> <li>• National Board of Accreditation for Department of Information Technology, Mechanical Engineering and Automobile Engineering on 1st to 3rd February, 2019.</li> <li>• National Board of Accreditation compliance audit on 13th February, 2019 for Electronics and Instrumentation Engineering, Computer science Engineering and Electronics and Communication Engineering.</li> <li>• Achieve Autonomous status from UGC</li> <li>• Curriculum development and syllabus framing</li> </ul>

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

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achivements/Outcomes
To implement autonomy for First year students (UG PG)	NPTEL online courses awareness was given to all students.
To improve the quality of teaching, research and enhancing the quality of engineering education in VEC under	Different club activities are conducted like Maths club, English Club, Coders club, innovators club, Hackathon

<div> <div>autonomous pattern</div> <div>competitions etc. To name a few</div> </div> <div>View File</div>					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <tr> <td>Name of Statutory Body</td> <td>Meeting Date</td> </tr> <tr> <td>Management</td> <td>07-Jan-2019</td> </tr> </table>		Name of Statutory Body	Meeting Date	Management	07-Jan-2019
Name of Statutory Body	Meeting Date				
Management	07-Jan-2019				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	23-Mar-2019				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	11-Jan-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p><b>MANAGEMENT INFORMATION SYSTEM: ERP:</b></p> <p>College Management Software automates from admission of students and beyond. It works better and smarter for administration, students, and faculty and enhances the communication between them. It captures personal, contact and course details of students. The software enables the student to submit online application forms for easy admission. Manage all enquiries registration using online forms. Realtime status updates followup with automatic reminders. Track enquiries enroll more students with dashboards reports. Centrally stores enrolment data of students in one place to send email and information alerts to students. Mark and track attendance records of students and staff. Automate attendance system with biometric integration for staff. Generate a variety of leave reports. Invoice options for tuition and other student fees. • Online payments with payment gateway interaction. Fee due alerts and payment remainder. Invoicing options</p>				

for tuition and other student fees • Quick catalog search with advance search capabilities library. Configure rules for issue, returns and renewal of books. • Unique library management module is integrated with the other relevant modules of the software it manages all the activities carried out in a standard institutional library • Robust search engine for quick search by title, subject, author, keywords, publisher or year of publication. • Unique Id to every book. • Issuereturn function supported by Bar Code if Required. • Subscription expiry and renewal reminders for periodicals. • Automatic record of fine imposed / dues receivable from members against late return of books and periodicals. • Engineering college management system is highly configurable, customizable, scalable and flexible, and ensures college leads get accurate reports about administration academic aspects for better decisionmaking. • Unique id to every newly admitted students. • Address details such as permanent, correspondence, guardian etc. photograph can be stored. • All Student Scholarship report can be maintained. • Creates useful MIS reports like daily fees received, outstanding amount, defaulter list etc. Employee management: • Provides Office information covers dept, Job profile, grade, etc.,personal information. • Processes salary of employees based on configurable components. Employees can view salary slip. Customizable deductions such as PF/IT/ PT. • Generates monthly salary statement as per predefined format. Store Management: • Accepts requisition from different departments/departmental heads. • Generates purchase order to be sent to the vendors. • Generates quotations or request to be sent to empanelled vendors/ suppliers for stock. • Customized reports can be added as per requirement. • General accounting reports Ledgers, Cash book, Bank book, Purchase register, Sales register etc. Integrated with fees and admission modules LAN connectivity: • Internet facility is available for all systems in the whole campus. The entire campus is optically networked between buildings and cable within the

buildings for connectivity. Airtel 100 Mbps connection is our internet service provider. We have the facility to make phone calls all over the campus. The entire centre is efficiently powered by a backup power supply system. • A stateoftheart campus network with a Leased line Internet connection offer unlimited access of Internet for the students and staff round the clock, for their educational and research needs. • We have local area wireless technology which allows an electronic device to exchange data or connect to internet in our college campus and in boys and girls hostel.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Effective curriculum delivery process is in place in the department as per the road map to facilitate the students for academic excellence and to get placements or to pursue higher studies. Courses of the curriculum are allotted to faculty based on their field of expertise and interest well before the start of the semester by the Head of the Department. Before the semester could start, course committee meeting is conducted by the course committee chairperson with other subject handling faculty. The pre requisite, course outcomes and programme outcome mapping, books to be referred, methods of instructional delivery are documented and this road map is approved by the Head of the Department. Course handling faculty will frame the lecture plan of delivery and prepare the lecture notes for all topics as in the curriculum and devise the assignment topics and tutorial problems which will be approved by the course committee chairperson, Head of the department and Principal before the commencement of the semester. At the start of the course, faculty will highlight to the students on the course objectives, outcomes of the course, contents of each unit and its applications in the related domain. Lectures on the topics of each unit of the course are delivered using the teaching methodologies (chalk and board, ICT etc.). Interactive learning is appreciated during the lecture classes. Some extension topics are given as seminars to students. The effectiveness of lesson planning, its execution in the lecture hours as per the time table and mode of teaching are maintained in the log book by the course handling faculty. Periodically (Once in a month) is verified by Head of the Department and Principal. Students feedback about the portion coverage as per the lesson plan and suggestions for the improvement in teaching and learning process before and after each internal assessment test are addressed by the course handing faculty and Head of the Department in the class committee meeting . For the toppers, additional assignments based on GATE questions or higher order thinking questions are given to bring out a strong foundation on the concepts learnt in the content delivery process. Guest lectures and seminars by academicians from reputed institutions and industry are arranged to impart valuable knowledge to students. Industrial visits are arranged to have industry exposure related to the curriculum. To facilitate the active participation of students in the learning process, activity based

learning activities are conducted by the selected students ( Quiz, cross word , objective type questions, Dumb-C, role play etc.,) to all the other students.

This activity really kindles the interest of students in demonstrating the technical knowledge content that is learnt in the content delivery process. The assessment of the course is done by assignments, two internal tests and model exam. All the questions are asked based on Blooms Taxonomy and the outcomes of each unit. In order to bridge the gap the curriculum, workshops and value added courses are conducted on regular basis on current topics as per the choice of students to enhance the technical skills. In laboratory courses, the objectives and outcomes of the laboratory is discussed in the first session and hands on session of all the experiments is facilitated by the course handling faculty. In addition to the experiments stated in the curriculum, additional experiments are done to improve their skills. Students are encouraged to take part in mini projects to implement the conceptual learning of the curriculum. At the end of the course, indirect assessment such as course end survey is done by all the students on the teaching process, delivery methods and the level of understanding of each unit in that course and Course outcome evaluation is carried out based on all internal tests, assignments, seminars, activity based learning methods etc., which paves a way for faculty for the improvement in the content delivery process in the upcoming semesters.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Programming, Data Structures and algorithms Using Python	Nil	29/07/2018	8	Employability	Programming Skill
The Joy of Computing using Python	Nil	29/07/2018	12	Employability	Programming Skill
Introduction to Internet of Things	Nil	29/07/2018	12	Employability	Programming and Interfacing Skill
Introduction to R software	Nil	26/08/2018	8	Employability	Data Analytics
Discrete Mathematics	Nil	26/08/2018	12	Employability	Analytical and Problem solving
Technical English for Engineers	Nil	29/07/2018	8	Employability Entrepreneurship	Effective Communication
Developing Soft skills and Personality	Nil	26/08/2018	8	Employability Entrepreneurship	Effective Communication and attitude



Leadership	Nil	29/07/2019	4	Employability Entrepreneurship	Effective Communication
MATLAB Programming for Numerical Computation	Nil	18/01/2018	8	Employability	Analytical and Problem solving
Business English Certificate (BEC)	Nil	26/08/2018	12	Employability	Language skill

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	GE 8151 Problem solving and python programming (I sem)	23/08/2018
BE	GE8161 Problem solving and python programming lab(I sem)	24/08/2018
BE	Physics for Electronics Engineers PH 8253(II sem)	21/01/2019
BE	Basic Electrical and Instrumentation Engineering BE8254(II sem)	21/01/2019
BE	Circuit Analysis EC 8251(II sem)	21/01/2019
BE	Linear Algebra and partial differential equations MA8352 (III sem)	25/06/2018
BE	Fundamentals of data structures EC 8393(III sem)	25/06/2018
BE	Fundamentals of data structures lab EC 8351(III sem)	25/06/2018
<a href="#">View File</a>		

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	All branches	01/07/2018

### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	234	Nil

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Block Chain Technology	08/04/2019	27
MACHING LEARNING	14/07/2018	81
Advanced Digital Marketing	26/04/2018	60
Advanced Data Analytics and Domain Application	03/09/2018	60
Advanced Business Excel	03/08/2018	60
Stock Trading and Analysis	29/08/2018	60
<a href="#">View File</a>		

#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	ECE, EEE, MECH, IT, CSE, E&I	931
<a href="#">View File</a>		

### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

#### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>1.Student feedback Student feedback on the teaching and learning process in the class committee meetings are addressed by the Head of the Department and the respective course handling faculty. Student feedback on general facilities, club activities, hostel etc., in the student representative meeting are addressed by the Principal. Also feedback is obtained at the end of the semester from students on the teaching process of the course handling faculty and any deviation observed, the concerned faculty is advised to improve on their performance by the Head of the department. 2.Feedback : Exit survey This survey is obtained from the students at the end of the programme. The feedback on the level of attainment of the program outcomes of all the students are analyzed and attainment score for each programme outcome is analyzed and 20 of this score of each programme outcome is considered in the overall programme outcome attainment score. If it is less than the target set in the department , then corrective measures are taken. 3. Feedback: Alumni survey. This survey is obtained from the alumni and the feedback on the level of attainment of programme educational objectives, programme specific out comes and programme outcomes are analyzed and corrective actions are taken. 4.Feedback: Employers feedback This is obtained from the employers in the placement cell and to cater</p>

the requirements of industry, placement cell and the concerned department will take the initiatives to strengthen the placement. 5.Feedback : Parents feedback Parent feedback (on a sample) on the teaching and learning process, general facilities in the college, suggestions for further improvement is obtained. All the feedback are analyzed in the department meetings, programme assessment committee and corrective actions are proposed for the overall development of the college.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	CSE	180	190	159
BE	EEE	60	75	60
BE	EIE	60	72	60
BE	ECE	180	194	159
BTech	IT	60	60	60
BE	MECH	180	210	143
BE	CIVIL	60	44	44
BE	AUTO	60	50	25
MBA	MBA	60	80	60
<a href="#">View File</a>				

### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	684	70	172	13	185

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
211	200	3	24	Nil	2
No file uploaded.					
No file uploaded.					

#### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The scheme is adapted for the value additions to the students like – ? Bridging the gap between the teachers and students. ? Creation of a better environment in college, where students can approach teachers ? for both educational and personal guidance. ? Enhancement of knowledge base for both teachers and students alike

through effective twoway communication. ? Awareness and support to students for GATE, GRE, CAT, ISRO, SAIL, NAL, ? HAL, NTPC, BSNL, DRDO, BARC, and other Govt. PSUs examinations. ? Motivation for higher studies and entrepreneurship. ? Advice and support for improvement in academic performance Design Implementation: The IQAC had taken the initiative of implementing the mentoring of students. Students are categorised based on the streams of studies and also according to their core subjects. They are divided into groups of 1015 depending on the number of students. Each group is assigned a teachermentor who would perform mentoring duties. A Mentoring Format with Guidelines is prepared by the IQAC to ensure uniformity. a.

Mentors maintain and update the Mentoring Format which contains space for entering particulars and performance of students (class tests, monthly attendance records, etc.) b. After collecting all necessary information, Mentors are expected to offer guidance and counselling, as and when required. c. It is the practice of Mentors to meet students individually or in groups. d. In isolated cases parents are called for counselling/special meetings with the Principal at the suggestion of the Mentor. e. If a student is identified as having weakness in particular subject, it is the duty of the Mentor to apprise the concerned subject teacher.

Evidence of Success Though the system has only been implemented in the last few years, significant improvement in the teacherstudent relationship can be seen. The system has been useful in identifying slow learners and advanced learners. Based on the requirement deduced through a careful examination of each Mentor's report, the College has organised several Remedial Classes in the identified topics/subjects for slow learners. Targets achieved The Remedial Classes have been institutionalised after the implementation of the Mentoring System. NeedBased remedial classes have proved to be beneficial to the students in particular and the entire college in general. The institutional practice of Mentoring System has considerably enhanced the campus environment and brought about: a. Enhanced contact hours between Mentors with their respective students b. Improvement in students' attendance records c. Minimised student dropout rates (apparently due to Mentors' intervention before a student falls short of attendance or has been regularly abstaining from classes) d.

Identification of slow learners for conducting Remedial Classes

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
733	237	1:3

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
237	237	Nill	2	60

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Mrs.K.C.Aarthi	Assistant Professor	NPTEL – Elite, Gold Medal in The Joy of computing Using Python
2018	Mrs.K.Vijayalakshmi	Assistant Professor	NPTEL – Elite, Gold Medal, Topper 5, in The Joy of computing Using Python
2018	Mrs.D.Jena Catherine Bel	Assistant Professor	NPTEL – Elite in Programming, Data Structures and Algorithms Using Python
2018	Dr.S.Gunasundari	Assistant	NPTEL – Elite,

		Professor	Topper 2 in Programming, Data Structures and Algorithms Using Python
2018	Dr.V.Vimala Devi	Associate Professor	NPTEL - Elite in Cloud Computing and Distributed Systems

[View File](#)

## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	BE	II,III,IV	18/05/2019	29/06/2019
BTech	IT	II, III, IV	22/05/2019	29/06/2019
MBA	MBA	I, II	21/05/2019	29/06/2019

No file uploaded.

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• After every unit, unit tests are planned and conducted by the respective faculty and recorded . • In addition to this, cycle tests are conducted and the marks obtained are recorded. Result analysis is done by the class advisor. • The internal marks are awarded for a particular subject as detailed below (as per the guidelines of the University) 1) Internal Assessment: Maximum 20 Marks (Continuous assessment tests 15 Marks and regularity 5 Marks) 2) Continuous Assessment Tests: i) Cycle test 1 60 (converted to 100 marks) ii) Cycle test 2 60 (converted to 100 marks) iii) Model Examination 100 Total marks obtained are converted to 15 marks. 3) Regularity: 96 to 100 5 marks, 91 to 95 4marks, 86 to 90 3 marks, 81 to 85 2marks, 76 80 1 mark and less than 75 0 mark (Attendance is calculated and rounded to the nearest whole number). Additional 3 marks (maximum) for slow learners who are regular in slow learners coaching class (to ensure that the total marks do not exceed out of 20) Reforms initiated on Continuous Internal Evaluation system • Coaching classes are conducted regularly for the slow learners to improve their academic performance after the working hours with proper transport arrangement. • Slow learners are identified based on their previous semester university results and the internal test performance. • Proper coaching class schedule is prepared and is intimated to the students and faculty. • Coaching class attendance is maintained as per AC 23 format. • Study materials are provided by the subject faculty and the performance of the coaching class students are monitored after each internal test and the parents of the poor performers are called for discussion to suggest some corrective actions like counselling, study pattern etc. • Faculty has to teach the topics decided for the coaching class for half of the session and the students are expected to write the answers for topics discussed in the next half of the session in the coaching class. • Necessary action will be taken for the absentees

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Every semester Anna University prescribes the academic calendar for all

affiliated institutions. Based on this academic calendar the institution prepares the academic calendar and schedule of activities throughout the semester and better align with the University schedule. The well prepared academic calendar circulated to all faculty members, nonteaching staffs and students during the beginning of the semester. The academic calendar contains the following contents, ? Commencement of the classes ? Commencement of internal assessment tests ? Date of conference, workshop, symposium, college day etc., ? Date of class committee meetings ? Department review meetings ? Tentative date of University theory and practical examinations ? Date of last working day of the semester ? Holiday details

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.velammal.edu.in/departments.html>

### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BE	BE	BE	1079	973	90.17
BTECH	BTech	BTECH	57	53	92.98
MBA	MBA	MBA	59	59	98.3

[View File](#)

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.velammal.edu.in/studentsatisfaction.html>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

#### 3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	0.5	ISHRAE	10000	10000
Minor Projects	0.5	TNSCST	6000	6000
Minor Projects	1	NewGen IEDC	250000	250000
Minor Projects	1	TNSCST	7500	7500
Students Research Projects (Other than compulsory by the University)	1	DSTIEDC	750000	750000

Students Research Projects (Other than compulsory by the University)	1	TNSCST	7500	7500
Any Other (Specify)	1	AICTEMODROB	1913500	1913500
Major Projects	1.5	DST	940000	940000
Major Projects	5	DST	28700000	4750000
Major Projects	2	AICTE	1000000	1000000
Major Projects	2	Ministry of Education, RMC, Multimedia University, Malaysia	1360000	1360000
Major Projects	3	DST	2093300	1258400
Major Projects	2	DSTSEED TIDE	2899000	2899000
Major Projects	1	DSTIEDC	500000	500000
Major Projects	2	IEDC	1000000	1000000
Major Projects	1	IEDC	500000	500000
<a href="#">View File</a>				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Deep Learning in Bioinformatics and Healthcare Informatics	EIE	07/07/2019
Faculty Development Programme On EContent Development For Effective Teaching	MBA	29/03/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NA	NA	NA	01/12/2019	NA
No file uploaded.				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation	Name	Sponsored By	Name of the	Nature of Start-	Date of
------------	------	--------------	-------------	------------------	---------

Center			Start-up	up	Commencement
NA	NA	NA	NA	NA	01/02/2019
<a href="#">View File</a>					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
CSE	5

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	ECE	61	1.6
National	CSE	2	1.5
National	MBA	1	3.6
International	CSE	12	1.6
International	EEE	3	1.0
International	EIE	3	0.7
International	MECHANICAL	16	1.0
International	CIVIL	2	0
International	AUTOMOBILE	4	0.7
International	MBA	7	4.6
International	PHYSICS	9	1.9
International	CHEMISTRY	2	0.3
No file uploaded.			

#### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
CSE	1
IT	7
EEE	5
EIE	3
ECE	55
CIVIL	21
MECH	1
AUTO	1
CHEMISTRY	2
<a href="#">View File</a>	

#### 3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/



Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Multiswarm heterogeneous binary PSO using Winwin approach for improved feature selection in liver and kidney disease diagnosis	S.Gundasundari, S.Janakiraman, S.Meenambal	computerized medical imaging and Graphics(Elsevier)	2019	1	Velammal Engg college	1
Global statistical based features based approach for Acoustic event Detection	S.L Jaya lakshmi, S. Chandrakala, R.Nedunc helian	Applied Acoustics( Elsevier)	2019	1	Velammal Engg college	1
Validation of multicast routing in cyber physical systems monitoring air quality	Dr.J.Sathya Priya	Cluster Computing Springer	2018	8	Velammal Engg college	Nill
Role of IOT in Embedded Cryptography for Automotive Systems	Dr. Jeevaa Katiravan	Journal of Advanced Research in Dynamical Control systems	2018	17	Velammal Engg college	Nill
A dependable smart security system for dominant attacks on	Dr.P.Visu	International Journal of Engineering Technology	2018	81	Velammal Engg college	Nill

agricultur e crop fields						
Preparat ion and ch aracteriza tion of pyrolytic oil through pyrolysis of neem seed and study of p erformance  , combustion and emission c haracteris tics in CI engine. ht tp://dx.do i.org/10.1 016/j.joei .2 016.10. 003.	Dr.E.Gan apathySund aram	Journal of the Energy Institute	2018	8	Velammal Engg college	8
Experime ntal Studies on the Effect of Enhanced Thermal Co nductivity of SiCWater Nano fluid in the Per formance of Small Scale Solar Parabolic Dish Receiver. DOI:10.114 2/S0219581 X17600250	Dr.E.Gan apathy Sundaram	Internat ional Journal of Nanoscienc e	2018	7	Velammal Engg college	7
<a href="#">View File</a>						

### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
-----------------------	-------------------	------------------	------------------------	---------	--	--

Composite algorithm for pervasive health care systema solution to find optimized route for closest available health care facilities	Ganesan.R and Dr.V.V ijaya Cham undeewari	Multimedia tools and applicatio ns	2019	5	Nill	Velammal Engineerin g College
Triple DS:Privacy preserving in Big Data Health care	R.Ramya Devi and D r.V.Vijaya Chamundees wari	Internat ional journal of Parallel P rogramming	2019	5	Nill	Velammal Engineerin g College
Multiswarm heterogeneous binary PSO using Winwin approach for improved feature selection in liver and kidney disease diagnosis	S.Gundas undari,S.J anakiraman ,S.Meenamb al	computer ized medical imaging and Graphics (Elsevier)	2019	7	1	Velammal Engineerin g College
Global s tatistical based features based approach for Acoustic event Detection	S.L Jaya lakshmi, S .Chandraka la, R.Nedu ncheliam	Applied Acoustics (Elsevier)	2019	1	1	Velammal Engineerin g College
Removing leaf petioles and auto locating apexbased points	Dr.P.Visu	Multimedia Tools and Applicatio ns (springer)	2018	6	Nill	Velammal Engineerin g College

using straight line interpolation and bisection						
Multialgorithmic palmprint Authentication system based on Score Level Fusion	C. Murukesh	International Journal on Smart Sensing and Intelligent System	2018	22	Nill	Velammal Engineering College
Fuzzy Based PID For Calciner Temperature Control	Z. Brijet	International Journal of Pure and Applied Mathematics	2018	21	Nill	Velammal Engineering College Velammal Engineering College Velammal Engineering College
MultiAlgorithmic Finger Vein Authentication System Based on Score Level Fusion	C.Murukesh	Journal of Computational and Theoretical Nanoscience	2018	40	Nill	Velammal Engineering College Velammal Engineering College Velammal Engineering College Velammal Engineering College Velammal Engineering College
Experimental studies on the thermal performance of a parabolic dish solar receiver with the heat transfer fluids SiC water nano fluid and water.	Dr. P. Jawahar	Journal of Thermal SCIENCE	2018	8	11	Velammal Engineering College Velammal Engineering College

[View File](#)

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	4	66	39	81
Presented papers	3	2	12	38
Resource persons	Nill	4	7	6
<a href="#">View File</a>				

### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
NCCNAVY	4(TN) NAVAL TECH UNIT NCC , DIRECTORATE OF TAMILNADU, PUDUCHERRYAND ANDAMANNICOBAR	Nill	9
YRC MEDICAL CAMP	M.N. HOSPITAL CHENNAI	1	200
YRCBLOOD DONATION CAMP	REDCROSS UNIT, CHENNAI	2	50
YRCDENGUE AWARNES CAMP	YRC	1	100
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NA	NA	NA	Nill
<a href="#">View File</a>			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat, Gender issue	NCC, NSS, YRC, Gender Issue Cell	Swachh Bharat, Gender Issue, Dengue Awareness camp, Bool Donation Camp,	10	100
<a href="#">View File</a>				

### 3.5 – Collaborations

### 3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Consultancy Project ASHOK LEYLAND	3	0	1
<a href="#">View File</a>			

### 3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
INTERSHIP	FINAL YEAR INTERN	INFOSYS	24/12/2018	24/01/2019	24
INTERSHIP	FINAL YEAR INTERN	CTS	19/01/2019	10/04/2019	35
INTERSHIP	FINAL YEAR INTERN	RENAULT NISSION LIMITED, ORAGADAM 602105	10/05/2018	10/07/2018	2
INTERSHIP	FINAL YEAR INTERN	INDIA PISTONS LIMITED, CHENNAI	01/06/2018	12/06/2018	12
INTERSHIP	FINAL YEAR INTERN	WIPRO	10/01/2019	09/04/2019	2
INTERSHIP	FINAL YEAR INTERN	ZOHO	17/12/2018	23/01/2019	18
INTERSHIP	FINAL YEAR INTERN	BAROLA TECHNOLOGIES	16/12/2018	24/12/2018	50
<a href="#">View File</a>					

### 3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Yokogawa India Limited, Bangalore	31/01/2019	To Conduct hand on Training program for Students and Faculty	Nill
i3 Design Technologies	27/08/2018	Workshops, Training Programs, Sponsorship for Conferences and Symposiums	Nill
Preethi Kitchen	09/01/2019	Project work,	5

Appliances Ltd		work shop seminar, Inplant training	
Preethi Kitchen Appliances Pvt., Ltd.,	09/01/2019	Project, Internships, Collaborative Research, Innovation Workshops and Training Programmes	6
Dr. J. Jayalalitha Fisher University	24/12/2019	Project work, work shop seminar, Inplant training	3
Sundaram Clayton Limited (TVS Group)	01/02/2019	Learning and Hiring	5
Red Hat India Private Limited	03/01/2019	Managed Curriculum, Software and provides the facilities, teachers and delivers the courses to students	37
Redhat India Private Ltd	20/12/2018	Redhat Certification	150
<a href="#">View File</a>			

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
129.21	172.75

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
No file uploaded.	

### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Easy lib	Fully	3.0	2010

#### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	71804	19832984	706	393787	72510	20226771
Reference Books	4551	1800000	27	10000	4578	1810000
<a href="#">View File</a>						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
LEKSHMI.R.S	Economic Analysis for Business	Canvas	06/02/2019
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1043	953	1043	40	0	40	110	100	0
Added	0	0	0	0	0	0	0	100	0
Total	1043	953	1043	40	0	40	110	200	0

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS
----------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Nil	<a href="#">Nil</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
30.1	23.98	642.7	525.1

##### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory,



library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

ACADEMIC PROCESS QP 03A details the academic process identifying the process input, process output, process interface and process monitoring requirements. In addition, the procedures detailing the sub process like 1. Academic Planning which includes • Inter departmental Program (Service Program) Planning • Finalization of Electives • Time table Preparation 2. Delivery of Program • Theory Classes • Laboratory Works • Project Work • Summer Projects • Comprehension for UG programs • Seminar Sessions (Clause 8.5.1 of ISO 9001) 3. Attendance 4. Monitoring the Class Activities 5. Assessment 6. Reference Materials 7. New Faculty Evaluation 8. In plant training 9. Feedback • Class committee meetings • Students' feedback: 10. Control of Nonconforming Services 11. Department Meetings 12. Performance Analysis LIBRARY QP09A details the process of monitoring library services. The purpose is to provide library services to faculty and students for updating them with the latest developments in the relevant field. QP09A details the process of monitoring library services like Purchase of Books and Journals, Receipt of Books, Reference Books, Subscription of Periodicals, Non Book Material, New Arrivals, Issue and Return of Books/Back volumes// Non book materials, Stock Verification, Identification and Maintenance of Books, Photocopy Service and Library General Rules. GENERAL MAINTENANCE QP13A details the maintenance process. General maintenance includes maintenance of buildings, electrical equipments/facilities, Fire Extinguishers and Housekeeping. The purpose is to carry out both preventive and breakdown maintenance of infrastructure facilities. Deviation in completing of preventive maintenance is monitored once in three months and recorded in MN 03. Repetitive breakdowns (or undue delay in attending the break downs affecting the availability of utilities) are also recorded in MN 03. These are reviewed by AO and suitable corrective and preventive actions are planned and recorded in MN 03. PHYSICAL EDUCATION QP14A details the process of providing physical education services. The HOD (Physical Education) heads the Department of Physical Education In addition to the HoD, faculty members are also provided (Director of Physical Education (both male and female) to assist him in planning and conducting sports and games. In order to maintain the indoor stadium, a Stadium Director is also provided. Markers are also provided to assist the faculty members in the conduct of the sports and games and maintenance of the facilities. Their specific responsibilities and authorities are given above. The Department of Physical Education of VEC provides facilities for both outdoor and indoor games for the interested students to practice as well as conduct of intramural and extramural events in sports and games. Multipurpose indoor stadium provide courts for basketball, volleyball, badminton and table tennis. Fitness centre is also provided as part of the indoor stadium.

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Academic scholarship and Excellence award	20	1116850
Financial Support from Other Sources			
a) National	Reserved Candidate Tuition	1017	29792500

	fee and first generation tuition fee from Gov. of Tamilnadu		
b)International	0	Nill	0
<a href="#">View File</a>			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Company specific training	27/08/2018	157	ETHINUS FACE Academy
Soft skill Training	01/06/2018	55	VEC
Aptitude Training	23/06/2018	131	Mr.EldoRenjith, Aptitude Trainer
Python Programming	11/06/2018	34	ReLearnTop Freshers
Soft Skills Training	13/07/2018	106	VEC Training Team
Software Training	23/01/2019	131	Six Phrase
Aptitude Refresher Course	27/08/2019	131	Ethunus
Infosys Specific Aptitude Training	23/08/2019	131	Six Phrase
CTS Specific Aptitude Training	03/09/2018	131	FACE
Company Specific Training	30/08/2018	210	Six Phrase FACE Academy
Remedial Coaching	03/11/2018	22	Mechanical Faculty, VEC
Communication Skills	15/03/2018	46	BEC
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	GATE Coaching	117	Nill	4	144
2019	CAT	Nill	Nill	2	Nill
2019	GRE	Nill	Nill	4	1
2019	IELTS	Nill	Nill	2	Nill

2019	Career Guidance Seminar	Nil	140	Nil	Nil
2019	Career Counselling	Nil	206	Nil	Nil
2019	Aptitude, Soft skills & Technical training	75	65	Nil	59
2019	Pre-Placement Training	Nil	Nil	Nil	18
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	14

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Tata Elxsi	342	42	Wipro Infrastructure	10	1
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	6	BE	CSE	Arizona State University	M.S. Software Engineering
2019	1	BE	EIE	University Of Texas Arlington	M.S- Electrical Sciences
2019	6	BE	ECE	Carleton University, Canada SCHMRD Institute of Public Enterprise, Hyderabad Carleton University, Canada University	MBA

				of Cincinnati SRM Easwari Engineering College	
2019	17	BE	MECH	SRM Institute of Science & Technology, India	MBA
<a href="#">View File</a>					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year  
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	2
GMAT	2
CAT	2
GRE	6
TOFEL	1
Any Other	8
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
BASKETBALL (MEN)	ZONAL	156
BASKETBALL (WOMEN)	ZONAL	48
VOLLEYBALL (WOMEN)	ZONAL	60
TABLE TENNIS (MEN)	INTRAMURAL	66
BADMINTON	INTRAMURAL	54
BASKETBALL	INTRAMURAL	132
TENNIS	INTRAMURAL	27
BALLBADMINTON	INTRAMURAL	113
CHESS	INTRAMURAL	68
VOLLEYBALL	INTRAMURAL	132
FOOTBALL	INTRAMURAL	126
KABADDI	INTRAMURAL	81
CRICKET	INTRAMURAL	364
ATHLETICS	INTRAMURAL	234
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for	Number of awards for	Student ID number	Name of the student
------	-------------------------	------------------------	----------------------	----------------------	-------------------	---------------------

			Sports	Cultural		
2019	Gold	National	1	Nill	EI1	ARUN PRASAD R
2018	Gold	National	1	Nill	MEC1	SASI KUMAR D
2018	Gold	National	1	Nill	AUTO1	ADITHYA SUDHARSAN M.V
2018	gold	National	1	Nill	CSE1	SRIDHAR T
2018	Gold	National	1	Nill	CSE2	RESHMA R
2018	Gold	National	1	Nill	ECE	SATHYAPRIYA S
2018	Gold	National	1	Nill	PRO	SAIYAD SHAID HUSSAIN
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

College creates a platform for the active participation of the students in the various academic administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations and execution skills. Each council has a representative council, which is called Class Committee and includes student members too. The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. The composition of student members is of one topper, one average and one slow learner of each class are nominated as class representatives, for all the sections from I Year to Final Year. The Student Council helps students share ideas, interests, and concerns with lecturers and Head of department. They often conduct wide activities, including social events, community projects, helping people in need and college reform. Various programs like paper presentations, workshops and seminars are organized by these bodies every year

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

5.4.2 – No. of enrolled Alumni:

5.4.3 – Alumni contribution during the year (in Rupees) :

5.4.4 – Meetings/activities organized by Alumni Association :

#### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

##### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization of academic activities through Department participation were carried out while framing the regulation, curriculum and syllabus for obtaining autonomous status for the institution from 2019-2020. Quality system is maintained through MR, Department co ordinators.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Program Assessment Committee meetings are conducted every year with academic and industry experts evaluating the feedback of various state holders and inputs by the faculty and students. Department meetings are held to assess the Course outcome, Program Outcome and Program Educational Objectives.
Teaching and Learning	<ul style="list-style-type: none"> <li>• Provision of state of the art learning resources in Central library</li> <li>• Highly ventilating and hygienic classrooms</li> <li>• Development of student support material</li> <li>• Conduct of remedial / slow learners / toppers coaching classes</li> <li>• Delivery of add-on courses</li> <li>• Conduct of preplacement training classes and campus connect programmes</li> <li>• Conduct of British English Language Certification courses</li> <li>• Structured course files and lab manuals for all courses</li> <li>• Continuous assessments and evaluation systems</li> <li>• Academic audit</li> <li>• Continuous improvement of resources</li> </ul>
Examination and Evaluation	<ul style="list-style-type: none"> <li>• Properly structured and organized exam cell</li> <li>• Two question paper setting pattern</li> <li>• Evaluation and result analysis</li> <li>• Retest conduction if required</li> </ul>
Research and Development	<ul style="list-style-type: none"> <li>• Formulation of Research committees</li> <li>• Allocation of budget for in house R D</li> <li>• Incentives and rewards for publications / research</li> <li>• Financial assistance to students for fabricating working</li> </ul>
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> <li>• Regular updation of Library facilities, ICT and Physical infrastructure</li> </ul>
Human Resource Management	<ul style="list-style-type: none"> <li>• Transparent policy document</li> <li>• Transparent and scientific way of recruitment</li> <li>• Formulation and communication of policies of the</li> </ul>

	college • Support for academic advancement • Systematic performance appraisal system and guidance to the people concerned • Systematic promotion policies • Democratic way of administration with participative management
Industry Interaction / Collaboration	• Regularly organisation of industrial visits • Guest lectures by experts from industry
Admission of Students	• Through single window counselling conducted by Anna University, Chennai

#### 6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Mail communication facilities to all departments / faculty
Administration	All the operational procedures and forms are made available in the server and can be accessed through intranet
Student Admission and Support	ERP is available for admission and support
Examination	Exam related activities are entered through Web portal of Anna University

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr.B.Venkatal akshmi	QUALITY	NA	8735
No file uploaded.				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	ICMR Sponsored National Level Workshop on Deep Learning in Bio inf	Deep Learning in Bio informatics and Healthcare Informatics	06/07/2018	07/07/2018	40	Nil

	ormatics and Healthcare Informatic s					
2018	Anna University Sponsored Faculty De velopment Programme om Control Systems	Anna University Sponsored Faculty De velopment Programme om Control Systems	26/11/2018	08/12/2018	25	Nill
2018	Workshop on ISO 9001:2015 Awareness Training C ourseWorks hop on ISO 9001:2015 Awareness Training Course	Workshop on ISO 9001:2015 Awareness Training Course	21/08/2018	21/08/2018	30	5
2019	Faculty Developmen t Programme On EContent D evelopment For Effective Teaching	Faculty Developmen t Programme On EContent D evelopment For Effective Teaching	29/03/2019	29/03/2019	40	Nill

[View File](#)

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Big Data Analytics using Hadoop	1	04/06/2018	10/06/2018	7
FDP on Electro Magnetic Theory	1	13/06/2018	19/06/2018	7
Engineering Graphics3	3	28/05/2018	03/06/2018	7
Introduction to Numerical Heat Transfer, Fluid flow and its Application	2	28/05/2018	03/06/2018	7



FDP on Control Systems	4	26/11/2018	08/12/2018	13
FDP Applications of Nanotechnology in Solar Systems	1	26/11/2018	08/12/2018	13
NPTEL	17	01/06/2018	30/11/2018	60
<a href="#">View File</a>				

#### 6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	237	Nil	243

#### 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
ESI, EPF, Medical facilities, Transport, Loyalty benefits, Tuition fee concession to the children, Scholarship scheme, Conference and training support, Work related facilities, Salary advance/ Loan policy	ESI, EPF, Medical facilities, Transport, Tuition fee concession to the children, Scholarship scheme, Work related facilities, Salary advance/ Loan policy	Scholarship schemes , awards for academic, cocurricular and extracurricular activities

### 6.4 – Financial Management and Resource Mobilization

#### 6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Being an affiliated institute there is no financial support from the state government for the development of the institute. Tuition Fee is the main source of income for the organization. The institute has got adequate financial resources in the form of fee collected from the students to meet effectively the annual maintenance and development expenditures of the college. The Tuition Fee is collected from the students through the administrative department and deposited in a unique bank account. This bank account is made to have a structural transaction in a hierarchical model with the support of the Financial Advisor and CEO of the trust. The same is used for the various administrative and academic expenses. The institution provides additional facilities like hostel, transport, food etc. and the respective fee collected are used for the expenses under appropriate head. Other than the regular fees through the technical skills of the faculty and students various sponsored programmes, testing / consultancy industry assignments and research centre/ resource establishment are carried out to strengthen the research infrastructure of the institute. 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.

#### 6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	0
No file uploaded.		

6.4.3 – Total corpus fund generated

0
---

## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	TUV	Yes	MR
Administrative	Yes	TUV	Nil	MR

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Mentoring 2. Counselling 3. Discipline committee meetings (regularly meetings at periodic intervals)
---

6.5.3 – Development programmes for support staff (at least three)

• Course on testing of fans on 19th 20th November, 2018 by CETL • Roles Responsibilities on 10th 17th of December 2018.
---

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Autonomous Status - Curriculum design and development, Board of studies, Academic Council, establish COE 2. More involvement towards Research Development
--

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Brainstorming activity on Roles Responsibilities	26/10/2018	26/10/2018	26/10/2018	101
No file uploaded.					

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants
------------------------	-------------	-----------	------------------------

			Female	Male
Women and social media	29/03/2019	29/03/2019	50	12

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<ul style="list-style-type: none"> <li>• Energy Conservation</li> <li>• Use of renewable energy</li> <li>• Water harvesting</li> <li>• Check dam construction</li> <li>• Plantation/Greening drives</li> <li>• Hazardous waste management and ewaste management</li> </ul>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	2
Rest Rooms	Yes	2
Special skill development for differently abled students	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	01/05/2019	0	Employment	1	100
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Student hand book	01/06/2018	<p>The Student Handbook is the official statement of rules and regulations. All items contained in this are in effect at the date of publication. All rules, regulations, and policies of College are subject to change through the appropriate departments, offices, and legislative bodies empowered by the constituencies. Any change in the items contained in the Student Handbook will be</p>

		published in the notice board and web site. Hand book provide details about the Trust, College Insignia, Vision of Velammal Quality Policy, Academic programme, Awards Galore, Scholarship details, Department Details, Supporting Services, Executive Committee, Rules and Regulation, Examination Rules and Planner
HR hand book	01/06/2018	HR hand book is a guide to employees, which clearly outlines the policies and programmes evolved and implemented by the company towards the welfare of the employees. It talks about the rules and regulations that govern over the employees while working in the college. The contents are General Information About Vec, Recruitment Polic, Induction, . Rules And Regulations Performance Evaluations, Promotion Policy, Exit Policy etc.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Orientation programme inculcating universal values and ethics	30/08/2018	05/09/2018	700
No file uploaded.			

#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Velammal Engineering College, Chennai is located at Surapet a popular town near Ambattur in Thiruvallur district in Tamil nadu. A tranquil world in itself, the campus stands unique with its lush green expanse, paved pathways and a serene, soothing environment. Our strategic plans for development have always been driven by a love for nature and sustainability of important resources like energy, water, green cover etc since the campus is located in the banks of Puzhal lake.

### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

To impart practical exposure to students in upcoming technologies by conducting workshops, guest lectures and seminars by internal and external academicians / industrialists and through industrial visits. The Process: The students are expected to be strong in academics and have good industrial exposure. They are encouraged to update their knowledge with latest developments in their respective disciplines and allied subjects. •In addition to good academic record, the students need to develop leadership qualities and good communication skills and soft skills. In this aspect, eminent personalities from various reputed institutes and industries are invited to impart the practical exposure to the students through workshops, seminars, guest lectures, etc. •Also, the students are motivated to share their ideas with the outside world by presenting their research work in National / International conferences. •The students are monitored regularly by class committee meetings and conduct of remedial classes where necessary. •Regular tests on GATE and other competitive exams are conducted by the college. •To gain industrial knowledge, the students are encouraged to visit the industries.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Velammal Engineering College is affiliated to Anna University and is approved by the All India Council for Technical Education (AICTE). The institution has been certified by ISO 9001:2008 by M/s. TUV NORD, Germany, in just 5 years of its inception and has been accredited by both NBA and NAAC. Based in Chennai city, VEC, the safe campus, offers a truly unrivalled study experience with various courses, outstanding facilities, comprehensive support and highly disciplined life. VISION OF VELAMMAL "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 OF VELAMMAL "To provide world class education in engineering, technology and management, to foster research development, to encourage creativity and promote innovation, to build leadership, intrapreneurship and entrepreneurship and to nurture teamwork and achieve stakeholders delight". The most significant contribution that an educational institution, especially an engineering college makes is enabling progress in the world through its students. A college with a vision helps progress bloom. The logo unit is a reflection of the same thought. It has a budding flower in bright orange, blooming. In the background is a gearwheel - a tool that's integral to progress and engineering - that's rising and shining. Together, they sit majestically on the wordmark of Velammal, completing the elements of the logo unit. QUALITY POLICY: We are committed to provide quality education to students to acquire life skills thus enabling them to achieve academic and professional excellence. We continually motivate all our educators and support service providers for enhancing professional competencies for effective implementation of Quality Management System.

Provide the weblink of the institution

### 8.Future Plans of Actions for Next Academic Year

• To achieve within top 5 position in affiliated colleges of Anna University • 100 Placement in core companies • Centre of Excellence • Good Number of University Ranks • To enhance the employability skills of students • Increased RD

