Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**VELAMMAL INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Dr.S.SOUNDARARAJAN**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04430446300**
Mobile no.	**9677127076**
Registered Email	**principal@velammalitech.edu.in**
Alternate Email	**iqac@velammalitech.edu.in**
Address	**Velammal Institute of Technology**
City/Town	**Panchetti, Thiruvallur District.**
State/UT	**Tamil Nadu**
Pincode	**601204**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Mrs.S.Selvakanmani**
Phone no/Alternate Phone no.	**04430446300**
Mobile no.	**9841607498**
Registered Email	**principal@velammalitech.edu.in**
Alternate Email	**iqac@velammalitech.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://velammalitech.edu.in/

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://velammalitech.edu.in/academic-calendar/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B+**	**2.57**	**2017**	**22-Feb-2017**	**21-Feb-2022**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**14-Sep-2015**

7. Internal Quality Assurance System

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
Regular meeting of Internal Quality Assurance Cell	**01-Jul-2019** **2**	**10**
Academic Audit	**19-Jul-2019**	**100**

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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
Velammal Institute of Technology/CSE/Dr.R.Sugumar	Major Project	DST	2019 2	1900000
Velammal Institute of Technology /ECE /Dr.B.Sridevi	Students research projects	TNSCST	2020 1	7500
Velammal Institute of Technology /MECH/Dr.G.Moorthy	Major Projects	CVRDE	2019 2	997000
Velammal Institute of Technology /MECH/Nair Ajit Venugopalam	Students research projects	TNSCST	2020 1	7500
Velammal Institute of Technology /IT/ Dr.Murugeswari	major Project	Department of Science and Technology	2019 2	2000000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	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	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

? IQAC of Velammal Institute of Technology has been actively involved in maintaining quality within the institution. As part of routine activity, IQAC conducted periodical meetings with department IQAC representatives to disseminate information on their roles and responsibilities towards IQAC. In recognition of the quality system of high calibre being implemented in the administration of the department as well as institution and achievement of its goals, the National Board of Accreditation(NBA) has accredited all five UG programs in ECE, CSE, EEE, IT MECH for a period of three years ? Value added certificate courses (NPTEL / online) Preplacement training programmes were conducted to enhance the level of placement. Also Content Beyond Syllabus (CBS) in both theory and Lab is planned and conducted for all courses in the 5 UG programs. ? Motivational and Career guidance training Programmes were offered to strengthen the confidence level of students to pursue their higher studies and for better placement. ? The Academic audits were conducted for odd and even semesters. ? IQAC encourages students to take part in technical and creative activities besides the classroom Teaching and laboratory practices by making them involved in: i. Collaborative undertakings with industries through industrial projects, industrial visits and inplant trainings, internship etc. ii. Activities like seminar, conference, symposium, Professional Society activities, Club Activities Different events related to Sports/NSS/YRC/NCC iii. Publishing their innovative research ideas in referred journals

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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
Academic Audit	Authentication of Teaching and Learning process based on Curriculum planning and to ensure that the learning objective is met.
NIRF Registration	Data collection consolidation and updating the institute details for NIRF ranking.
Academic excellence	Achieved Second rank in Anna University Examinations among 493 colleges.
Industry-Academia collaboration	MoU signed with various organizations; i. CDCE Automation for establishing factory automation of Industrial robotics.ii. Cloud Bull for Cloud App. Development Incubation Centre iii. Infoziant, Chennai iv. National Instruments, Bangalore v. Intelligence quality vi. AVIAN Products Aerospace vii. AMOGAA

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14. Whether AQAR was placed before statutory | Yes

body ?	

Name of Statutory Body	Meeting Date
Governing Council	03-Jul-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**01-Jul-2019**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**18-Feb-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Yes, the Institute is well equipped with an information system which takes care of various activities like admission, attendance, office management, accounts and student grievance redressal. Furthermore, we have Activity Planning Schedule(APS) which is very active in the institution and all activities from various programs are planned well in advance and informed to all the staff members and management.**

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

? The Course Outcomes are formulated by the course in charge, course coordinator, Module coordinator and Head of the department by considering the university curriculum with appropriate knowledge level. ? The formulated course outcomes are mapped with POs and PSOs by the course coordinators, Module Coordinator and Head of the department to identify the extent of compliance of the university curriculum. ? If yes, the Teaching Learning Process activities are proceeded to attain the formulated Course Outcomes, Program Outcomes and Program Specific Outcomes. ? If No, the gaps are identified for the course and it is intimated to the university (If Necessary). ? The weakly supported POs and PSOs are identified by mapping with Course Outcomes (COs). ? In order to strengthen and fulfill the gaps, Content beyond the syllabus, Value Added

Programs, Technical events, Guest lectures, Seminars, Laboratory experiments, Projects etc., are planned. ? Then, Teaching Learning process carried out for the attainment of Program Outcomes and Program Specific Outcomes. ? The content beyond the syllabus identified for the attainment of Program outcomes and Program specific outcomes are delivered by the any one of the following mode of delivery. Assignments ? The identified Content beyond syllabus topics is delivered as innovative assignments and are given to the students to attain the desired program outcomes and program specific outcomes. The courses handling Staff prepares the assignment topic and encourage the students to complete the assignments. Seminars and Guest Lectures ? The content or topics need to learn by the students apart from the curriculum are delivered through Seminar / Guest lecture by experts Demonstration and Animations ? The themes to be known by the students as Content beyond the syllabus are instructed to them with the aid of live demo in the laboratory or with the help of videos and presentation. Also, the working principles are explained with animated videos for easy understanding of the subjects. These modes of delivery help the students to develop new ideas and designs. Project based learning ? The POs and PSOs which are not able to attain by the curriculum are delivered to the students in the form of Project based learning. This helps the students to improve their creative skills, critical thinking, collaborative learning and communication. Value added programs ? The gap identified in the curriculum is fulfilled by conducting additional Value added programs by the technical experts. This will enhance the knowledge of the students to go forward in lifelong learning and self-study. Industrial Visit, In plant training and Internship ? In order to inculcate the industry requirements for the students and to bridge the gap between theoretical learning and practical training, industrial visits are arranged. In plant training and internships are arranged as the part of curriculum to gain the industrial knowledge. This will help them to learn and upgrade the knowledge towards the placement and career.

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
Cloud Security Hands on Workshop	Nil	20/06/2019	5	Yes	Yes
Labview (CLAD certificate course)	Nil	26/06/2019	5	Yes	Yes
HTML/Java script	NIl	27/06/2019	5	Yes	Yes
Automation	Nil	12/09/2019	5	Yes	Yes
Arduino Hands on workshop	Nil	06/02/2020	5	Yes	Yes
NPTEL	NIl	24/07/2019	5	Yes	Yes
SKILLRACK	NIl	12/06/2019	4	Yes	Yes
CODE ACADEMY	NIl	17/10/2019	5	Yes	Yes
GREAT LEARNING	NIl	04/03/2020	4	Yes	Yes

| NIIT Academy | NIl | 11/12/2019 | 5 | Yes | Yes |

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Nil	Nill

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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	CSE	20/06/2019
BE	ECE	20/06/2019
BE	EEE	20/06/2019

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

	Certificate	Diploma Course
Number of Students	248	0

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
APTITUDE TRAINING(CSE)	12/06/2019	211
TECHNICAL TRAINING ON C,JAVA DATA STRUCTURE(CSE)	02/12/2019	205
SILICON TRAINING(ECE)	03/02/2020	101
A PEEK INTO THE LEADING EDGE WEBINAR SERIES ON VARIOUS FACETS OF TECHNOLOGY(ECE)	11/05/2020	101
LECTURE ON OUTCOME BASED EDUCATION IN ENGINEERING(MECH)	20/06/2019	45
TRAINING ON AUTOMATION(MECH)	23/09/2019	40
APTITUDE TRAINING(MECH)	12/06/2019	159
TECHNICAL TRAINING ON C,JAVA DATA STRUCTURE(IT)	02/12/2019	96
TECHNICAL TRAINING ON C,C JAVA(EEE)	16/07/2019	87
Web Development using wordpress(IT)	15/06/2019	10

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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	CSE	42
BE	ECE	44
BE	EEE	18
BE	IT	48
BE	MECH	48
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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

Feedback Analysis and Reward / Corrective Measures Taken Feedback has a positive influence on the teaching process. Our college follows the system of collecting feedback from students. The following methods are used. 1. CCM's 2. Online Feedback and 3. DRM's Through this feedback system students' requirements are fulfilled. It also helps in improving the teaching process of the faculty which results in the improvement in learning. Feedback is collected for all the Courses. Class Committee Meetings Class Committee Meetings are scheduled and executed effectively by the institution to know the problems faced by the students in academics and non-academics. The Class Committee members consists of Principal, HOD, Class Advisor and all the course handling in charges along with six student representatives (includes Hosteller, Day Scholar, Tamil/Regional medium students and one student coming by private bus)for each class. The Principal will be the Chairperson of the committee. Class committee meetings will be conducted twice per semester. The reports of the Class Committee Meetings are reviewed by the Head of the concerned department and the Principal. Corrective measures are taken within a weak time. The purpose of a Class Committee is • To ensure that all the co-curricular and extra-curricular activities are carried out smoothly. • To keep track of the progress of the course and the assessment tools employed by the teacher for effective teaching and evaluation. • To enable students to provide feedback regarding the teaching-learning process, internal assessments etc. • Online feedback The online feedback is collected twice in a semester. It is taken from all the students of each class at a stipulated time for each course. The online feedback consists a set of 14 common questions for all the courses. Each question will have a 5 point scale for which the students can rate the concerned subject teacher. The score for all the questions are consolidated and analyzed by HoD and Principal. Principal will appreciate the faculties who have scored more than 3.5 points (70). Suitable counselling/instructions are given for those who secured less than 3.5 points. The consolidated feedback details will also be discussed in Department Review meeting by the Principal. The participation of the students in online feedback is 100. Department Review Meeting (DRM) After every Internal Assessment DRM will be conducted. The

meeting will focus on the progress of each class in the assessments conducted. It focuses on the performance of the faculty in their respective courses. The marks secured by the individual staff for the online feedback are given by the Principal in the meeting and the same is discussed to improve the qualitative process. Course End survey are collected from the faculty about the student's performance, and their course difficulties. Based on the feedback, students are called by the Principal for counselling. Corrective Measures Taken for the Feedback • The feedbacks collected from all the students are analysed by HoD, Principal and the same is discussed with the concerned faculty. • The contents of the feedback will be shared with the concerned

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	120	250	105
BE	ECE	120	150	86
BE	EEE	30	34	12
BE	IT	60	90	48
BE	MECH	90	95	18
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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
2019	269	0	101	0	0

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
101	101	8	5	5	8
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Yes, in Velammal Institute of Technology, utmost care and meticulous mentoring is followed to improve the quality of students life through proper counselling and career guidance. Mentoring is sharing knowledge, skills and life experiences to guide another, in general towards reaching their full potential. Similarly Mentoring System in our institution is a positive and supportive relationship for encouraging students to develop to their fullest potential. A mentor can be a role model, coach, sounding board, voice of reason, counsellor and a trusted resource. Mentors care and assure their mentee that they are not alone in dealing with day-to-day challenges.

Quality mentoring has powerful positive effects on students in a variety of personal, academic and professional situations. Ultimately, mentoring connects students to attain personal growth and development in the challenging social and economic opportunity. Our Institution is working towards enhancing the institutional culture to better serve the needs of an ever-changing and dynamic learning community. Effective mentoring begins with the faculty. When it comes to academic success and persistence, there is no substitute for a healthy relationship between faculty and students than mentoring. . Academic Mentoring Process ? An effective student mentoring system has already been implemented in our college. All the students of the college are coming under this system from the date of joining the institution. ? Mentor Book has been distributed to all the Mentors of the college. Each mentor is allocated with 20-25 students under the mentoring system. ? A complete track of the student activities like academic, curricular, co-curricular, extracurricular achievements, social activities and the details of parent meetings are entered in the Mentor Book. ? Every third day, after the completion of Internal Assessment (IA), Mentors will have a meeting with the students and all their activities are discussed and noted in the Mentor Book. ? For helping Mentees (students), who require additional help and guidance, the mentor may hold discussions with them more frequently with atmost care as the situation demands. The mentor documents the discussion held with his or her ward for future reference. The following figure 2.3.2 shows our students mentoring process. ? The mentor will perform the following functions: ? Continuously counselling, guiding and motivating the students in all the academic and non-academic matters. ? Contact parents/guardians, if situation demands. For instance academic irregularities, negative behavioral change. ? Advise students in their career development/professional guidance. ? Intimate HOD and suggest if any administrative action is called for. ? Maintain a detailed progressive record of the student ? The Mentor is responsible for filling in the details of marks for each assessment and other relevant information like attendance, discipline, strength and weakness about the student in the Mentor Register and to ensure that the record is sent to the parents for conveying the progress and getting acknowledgement. ? If any difficulty faced by the student in a particular subject, the mentor seeks the help of the concerned subject teacher for sparing extra time and personal attention for the student

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1390	101	1:14

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
16	16	0	16	4

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
2019	Dr.P.Deivendran (State Level)	Associate Professor	Reviewer for the International Conference on Adaptive computational Intelligence GSSS Institute of Engineering and Technology, Bangalore(ICACI-2019)
2020	Ms.Abinaya (State Level)	Assistant Professor	Infosys (Python Programming th
2020	S.Shanmugapriya (State Level)	Assistant Professor	Infosys (Python Programming through INFYTQ Platform)

2020	K.Sudharson (State Level)	Assistant Professor	Wipro Certified Faculty Program
2019	D.Dhinakaran	Assistant Professor	NPTEL (Cryptography and Network Security)
2019	Dr. Selvakanmani S	Associate Professor	"Women Researcher Award", "2nd International Research Awards on Science, Health and Engineering"
2019	Dr. Selvakanmani S	Associate Professor	"Elite Silver Award" NPTEL Courses
2019	Dr.M.Sivarathinabala	Associate Professor	Best Researcher Award, VD Good Technology,Chennai.
2020	Dr.R.Jothi Chitra	Professor	Outstanding Women in Engineering VIWA,Venus International Women Awards 2020
2020	Mrs.S.Manju	Assistant Professor	Best Faculty Award, VD Good Technology,Chennai.
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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	106/ECE	ODD/2019-20	04/10/2019	15/01/2020
BE	106/ECE	EVEN/2019-20	04/04/2020	20/06/2020
BE	104/CSE	ODD/2019-20	04/10/2019	15/01/2020
BE	104/CSE	EVEN/2019-20	04/04/2020	20/06/2020
BE	105/EEE	ODD/2019-20	04/10/2019	15/01/2020
BE	105/EEE	EVEN/2019-20	04/04/2020	20/06/2020
BTech	205/IT	ODD/2019-20	04/10/2019	15/01/2020
BTech	205/IT	EVEN/2019-20	04/04/2020	20/06/2020
BE	114/MECH	ODD/2019-20	04/10/2019	15/01/2020
BE	114/MECH	EVEN/2019-20	04/04/2020	20/06/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

* The Institute designed the answer script for internal assessment same as that of the university answer script. The attainment of COs pertaining to the

internal assessment can be viewed from the answer script. • Internal Assessment Question Paper with Bloom's Taxonomy (knowledge level) indication. • Four internal tests are conducted per semester. Improvement test is conducted for students to motivate. • Cross valuation for common subjects. • Additional coaching is provided for the slow learners. • Model question bank, GATE questions with answers, Challenging Question papers are prepared by the faculty and distributed to the students. • Timely assessment of tests is done and the result is displayed. • Theory examination and practical/oral examinations are conducted as per University schedule and norms. The faculty contributes in the examination work like- question paper setting, invigilation of theory examination, evaluation of answer scripts, internal examiner and subject experts for the University examinations assessment of theory examinations' answer books.

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

The academic calendar prepared by the institution is adhered meticulosuly such that all the activities planned before the commencement of the semester were followed/implemented to 100 The department will prepare the Department Academic Schedule for the semester by considering the Institute Academic Schedule with the following details. ? Industrial Visits ? Guest Lectures ? Value Added Programs ? Professional Society Activities etc.,

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)

https://velammalitech.edu.in/

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
104	BE	CSE	104	104	100
106	BE	ECE	91	88	96.7
105	BE	EEE	39	36	92.3
205	BTech	IT	55	55	100
114	BE	MECH	102	102	100
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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)

https://velammalitech.edu.in/

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
Major	3	DST	19.99	10.61

Projects				
Major Projects	3	DST	30.76	10.12
Major Projects	3	DST	20	10.6
Any Other (Specify)	6	Anna University	0.5	0.5
Minor Projects	6	TNSCST(ECE and MECH)	0.15	0.15
Major Projects	6	CVRDE	9.97	9.97
Any Other (Specify)	6	Tamil Virtual Academy	0.25	0.25
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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
Webinar Series on "Enhancing RD Skillset"	ECE	20/05/2020
One Day Faculty Enhancement Program on "ARDUINO"	ECE	20/12/2019
Guest Lecture on "Waveform Generators and Special Function ICs"	ECE	10/03/2020
Guest Lecture on "DSP Processor"	ECE	03/09/2019
Guest Lecture on "Embedded System"	ECE	03/09/2019
Webinar series on "Various Facets of Technology"	ECE	11/05/2020
One day Hands on Training "Robotics"	ECE	22/06/2019
Overview of Data warehousing Implementation	IT	16/05/2020
Machine Learning with Orange	IT	09/05/2020
Overview of Voice Networking	IT	23/05/2020
Overview of Data Visualization with powerBI	IT	30/05/2020
CFD AND ITS APPLICATIONS	MECH	18/06/2019
LECTURE ON	MECH	20/06/2019

ENTREPRENEURSHIP DEVELOPMENT"			
LECTURE ON OUTCOME BASED EDUCATION IN ENGINEERING	MECH	20/06/2019	
INTRODUCTION TO LABView CONTROL SYSTEM	MECH	22/06/2019	
TRAINING ON AUTOMATION	MECH	23/09/2019	
TRAINING ON APTITUDE	MECH	02/07/2019	
2 – Days Hands-on Workshop in DEEP Learning	CSE	06/06/2020	
Workshop on iOS Application Development	CSE	07/01/2020	
LabVIEW Basics Training	ECE	10/02/2020	
A PEEK into the Leading Webinar series on various facets Technology	ECE	11/05/2020	
Webinar on Data Science	CSE	10/03/2020	
Guest Lecture on Cloud Computing	CSE	24/06/2019	
Guest Lecture on Internet Programming	CSE	05/07/2019	
Webinar on Machine Learning and its Application	CSE	14/02/2020	
Guest Lecture on "Electro Magnetic Theory"	EEE	08/08/2019	
Guest Lecture on "Power System Stability Analysis"	EEE	10/10/2019	
Guest Lecture on "Resonant Converters and PWM Techniques"	EEE	18/07/2019	
Guest Lecture on "Protection and Switch Gear"	EEE	27/08/2019	
Power Club Activity Independence Day Activity Session	EEE	17/08/2019	
Aptitude Training	EEE	13/06/2019	
Technical Training on C, Java and Data Structure	EEE	02/12/2019	
Technical Training on C , C and Java	EEE	25/07/2019	
Aptitude Refresh Training	EEE	20/08/2019	
CDCE Automation Course	EEE	24/09/2019	

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

Symposium	PRATHEEKSHAAM DASAM SOWMYA	Shri Vishnu Engineering College For Women	27/09/2019	FIRST PRIZE(Cash Prize Rs.3000)	
Symposium	DINESH S MAGUTHU SAHITH AFRI S	Kongunadu College Of Engineering And Technology	09/08/2019	FIRST PRIZE(Cash Prize Rs.3000)	
Symposium	ARAVINDH R	Srm Easwari Engineering College	11/01/2020	SECOND PRIZE(Cash Prize Rs.750)	
Symposium	GODWIN P, RAMESH C ARAVINDH R	SRM Easwari Engineering College	11/01/2020	THIRD PRIZE(Cash Prize Rs.750)	
Continuous energy supply to house hold appliances through uninterrupted power meter	K.Sudharson	Intellectual Property Rights	20/12/2019	Published -Teachers	
Smart Bot the railway track cleaning machine	Dr..M.Sivarathinabala, Dr.V.P.GladisPushparathi ,Ms.Manisha, Mr.Ezra Vethamani	Intellectual Property Rights	28/02/2020	Published -Teachers	
Outstanding Women in Engineering	Dr.R.JothiChitra	VIWA,Venus International Women Awards 2020	07/03/2020	Faculty	
Best Researcher Award	Dr.M.Sivarathinabala	VDGOOD Technology Factory	15/02/2020	Faculty	
PAPER PRESENTATION	POOJA BHARGAVIN JEEVITHA VAISHALIG RAMYA	MOHAMMED SATHAK AJ COLLEGE OF ENGINEERING	13/09/2019	II Prize (Cash Prize Rs.1000)	
PROJECT DISPLAY	AYISHA MUSKHAAN.S, S.ELAKKIYA	VELAMMAL ENGINEERING COLLEGE	15/02/2020	I Prize (Cash Prize Rs.1000)	
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
00	00	00	00	00	Nill
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
2000	8000	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
Humanities and Sciences	1

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	CSE	17	0.8
International	ECE	14	1.96
International	EEE	2	0.51
International	IT	8	1.61
International	MECH	8	2.46

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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	15
ECE	39
EEE	11
IT	18
MECH	29
HS	4

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

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
Scalability assurance process in replication and migration using cloud simulator	Dr.P.Deivendran P.Sailaja	International Journal of Networking and Virtual Organizations	2019	0.167	Velammal Institute of Technology	1
SAFE – Secure Authentication in Federated	Dr.Murugeshwari. B K.Sudharson	Journal of TEST Engineering and Management	2020	0.427	Velammal Institute of Technology	0

Title	Author	Journal	Year	Impact	Institution	Citations
Environment using CEG Key code						
A novel Neyman–Pearson criterion-based adaptive neuro-fuzzy inference system (NPC-ANFIS) model for security threats detection in cognitive radio networks	Dr. B. Sridevi	SOFT COMPUTING	2019	3.732	Velammal Institute of Technology, Chennai	4
A novel linear SVM-based compressive collaborative spectrum sensing (CCSS) scheme for IoT cognitive 5G network	Dr. B. Sridevi	Soft Computing	2019	3.732	Velammal Institute of Technology, Chennai	11
An structured support vector machine for hyper spectral satellite image segmentation and classification based on modern swarm optimization approach	Mrs.S.Manju	Journal of Ambient Intelligence and Humanized Computing	2019	3.718	Velammal Institute of Technology, Chennai	0
A PMSG Based Flexible Input WECS For Grid Using	Dr.K.Rajeswari, Dr.S.Muthukaruppasamy, Mr.J.Nandhagopal	Test Engineering and Management	2020	0.427	Velammal Institute of Technology, Chennai	0

Power Converter And MFT Device						
Brain- Computer Interface for assessment of mental efforts in E-learning using the nonmarkovian queueing model	Dr.S.Soundararajan Dr.S.Selvakanmani Mr.B.Balamurugan	Journal of Computer Applications in Engineering Education, WILEY	2020	1.435	Velammal Institute of Technology	4
Sensor Based Automatic Neonate Respiration Monitoring System	Dr.S.Soundararajan Mr.J.Sathiya Jebasundar Ms.G.Indumathi	International Journal of Innovative Technology and Exploring Engineering	2019	0.546	Velammal Institute of Technology	0
Enhancing the thermal performance of micro finned tube with TiO2 water Nano fluids using twisted tape inserts.	Dr.D.MAGESH BABU and Dr.B.MADHU	Heat Transfer research	2019	2.443	Velammal Institute of Technology	6
Investigation on Heat transfer enhancement of conventional and staggered fin solar air heater coated with CNT-black paint-an experimenta	Dr.B.MADHU and Dr.D.MAGESH BABU	Environmental Science and Pollution research	2020	3.056	Velammal Institute of Technology	5

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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
Scalability assurance process in replication and migration using cloud simulator	Dr.P.Deivendran P.Sailaja	International Journal of Networking and Virtual Organizations	2019	20	1	Velammal Institute of Technology
SAFE – Secure Authentication in Federated Environment using CEG Key code	Dr.Murugeshwari. B K.Sudharson	Journal of TEST Engineering and Management	2020	11	0	Velammal Institute of Technology
A novel Neyman–Pearson criterion-based adaptive neuro-fuzzy inference system (NPC-ANFIS) model for security threats detection in cognitive radio networks	Dr. B. Sridevi	SOFT COMPUTING	2019	81	4	Velammal Institute of Technology, Chennai
A novel linear SVM-based compressive collaborative spectrum sensing (CCSS) scheme for IoT cognitive 5G network	Dr. B. Sridevi	Soft Computing	2019	81	17	Velammal Institute of Technology, Chennai

An structured support vector machine for hyper spectral satellite image segmentation and classification based on modern swarm optimization approach	Mrs.S.Manju	Journal of Ambient Intelligence and Humanized Computing	2019	41	0	Velammal Institute of Technology, Chennai
A PMSG Based Flexible Input WECS For Grid Using Power Converter And MFT Device	Dr.K.Rajeswari Dr.S.Muthukaruppasamy Mr.J.Nandhagopal	Test Engineering and Management	2020	11	0	Velammal Institute of Technology, Chennai
Brain–Computer Interface for assessment of mental efforts in E-learning using the nonmarkovian queueing model	Dr.S.Soundararajan Dr.S.Selvakanmani Mr.B.Balamurugan	Journal of Computer Applications in Engineering Education, WILEY	2020	32	4	Velammal Institute of Technology, Chennai
Sensor Based Automatic Neonate Respiration Monitoring System	Dr.S.Soundararajan Mr.J.Sathiya Jebasundar Ms.G.Indumathi	International Journal of Innovative Technology and Exploring Engineering	2019	5	0	Velammal Institute of Technology, Chennai
Enhancing the thermal performance of micro finned	Dr.D.MAGESH BABU and Dr.B.MADHU	Heat Transfer research	2019	26	6	Velammal Institute of Technology, Chennai

| tube with TiO2 water Nano fluids using twisted tape inserts. | | | | | | |
| Investigation on Heat transfer enhancement of conventional and staggered fin solar air heater coated with CNT-black paint-an experimental approach | Dr.B.MADHU and Dr.D.MAGESH BABU | Environmental Science and Pollution research | 2020 | 132 | 5 | Velammal Institute of Technology, Chennai |

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	61	34	27
Presented papers	98	2	0	0
Resource persons	10	0	0	0

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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
Blood Donation Awareness program	Youth Red Cross	15	246
150th Birth anniversary of Gandhiji Celebration	Youth Red Cross	10	46
First Aid Awarness program	Youth Red Cross	8	102
Application of statistics in daily life.	Integration club	5	25

Further Mathemetics	Integration club	5	25
International yoga day	NCC	3	17
Teaching the illitertae persons to put their signature	Zenith Club	3	20
Teaching the illiterate persons to read newspapers using photographs	Zenith Club	3	15
Cancer awareness	Go Green club	3	15
Tree plantation	NSS	4	42
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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
NCC B Certification Exam	NCC B certificate	1(TN)BN NCC	15
NCC C Certification Exam	NCC C certificate	1(TN)BN NCC	10
YRC	Highest Blood donor	Right Hospital	103
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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 activites	Number of students participated in such activites
Promoting Girl Child Education in Ponneri	YELCOM Club	Gender Issue	3	30
Gender issues and preventive measures	Women Empowerment cell	Gender Issue	3	250
Swatch Bahrat Initiative	NCC	Swatch Bahrat	4	60
Awareness on protection of girl child	Go Green club	Gender Issue	3	90
Awareness about cyber crimes and approaches to get rid	YRC	Gender Issue	7	240

Awareness about Women scholarship and Govt job opputunities	Women Empowerment cell	Gender Issue	4	150
How to become successful women entreprenuer	Women Empowerment cell	Gender Issue	5	150
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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
Smart Water Network Optimization Techniques For Water Quality Monitoring And Leakage Managemant	Dr.K.chinnusamy, Velammal Institute of Technology Dr.J.S.Leena Jasmine ,Velammal Engineering College	Self Support	3
An Analytical Method For Health Risk Prediction Of A Patients Health In Real Time Using Machine Learning	Dr.Babu , Velammal Institute of Technology & Dr.S.Arun, Prathyusha Engineering College	Self Support	3
Journal Publication –Research work A novel linear SVM-based compressive collaborative spectrum sensing (CCSS) scheme for IoT cognitive 5G network	Dr.B.Sridevi-Velammal Institute of Technology &Ms.SivasankariJothiraj – UCETW	Self Support	2
Conference Publication –Research work Energy Optimization in a Renewable Energy Integrated Micro Smart Grid using Cyber physical Systems	R.Karthikeyan – Velammal Institute of Technology & Dr.A.K.Parvathy – Hindustan University of Science and Technology & S.Priyadharshini -- Hindustan University of Science and Technology	Self Support	2
Patent Publication – Research Work Smart Sanitation Robot	Dr.V.P.GladisPushparathi- Velammal Institute of Technology	Self Support	3

Vehicle	Ms.V.AuxiliaOsvin Nancy – S.AEngineering College Dr. S. MuthuKaruppasamy-Velammal Institute of Technology Dr.S. Soundararajan - Velammal Institute of Technology Dr.G. Babu- Velammal Inst			
Patent Publication – Research Work IoT Based Smart Parking System for Modern Cities	Dr.V.P.GladisPush parathi - Velammal Institute o Technology Dr.R.Ramesh - Saveetha engineering college Mr.V.Naveen - NEC	Self Support	3	
Patent Publication – Research Work Smart Sanitation Robot Vehicle	Dr.V.P.GladisPush parathi- Velammal Institute of Technology Ms.V.AuxiliaOsvin Nancy – S.AEngineering College Dr. S. MuthuKaruppasamy-Velammal Institute of Technology Dr.S. Soundararajan - Velammal Institute of Technology Dr.G. Babu- Velammal Inst	Self Support	3	
Conference Publication –Research work Performance analysis of PI and Fractional order PI Controlled Quadratic Boost Converter System using Matlab/Simulink	Mr.J. NandhaGopal.J - Velammal Institute of Technology & Dr.N.B.Muthuselvan – SSN College of Engineering	Self Support	3	
Funded Research Project –"Digital Poompuhar"	Dr.B.Sridevi-Velammal Institute of Technology Prof.Manoharan-AMET university Dr.Rajashekar-NIOT Bangalore Prf.M.Praveena – Ranganathan College of Engineering Dr.Judi Nair-CUSAT	DST	3	

	Cochin Dr.Uma Mudenagudi- KLE Technological University Prof.Neelakantan-			
Project Work on "Telemetry Data Interfaces Between Liquid Stage Filling System And Vehicle Checkout System For GSLV	Ms. P SWETHA, Ms. R JULIET and Ms. T VERONICA PRASAD	ISRO - Department of Space Satish Dhawan Space Centre SHAR Sriharikota	6

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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
Industrial Visit	Field Trip	National Institute of Ocean Technology (NIOT)	06/03/2020	06/03/2020	II/IV/A&B ECE Students
Industrial Visit	Field Trip	BharatiyaNabhikiyaVidyut Nigam Limited(BHAVINI)	13/03/2020	13/03/2020	III/VI/AB ECE Students
Industrial Visit	Field Trip	VEQUALIR Pvt	14/08/2019	14/08/2019	II /III ECE (A B)
Industrial Visit	Field Trip	VI Micro Systems	27/07/2019	27/07/2019	III /V ECE (A B)
On the Job Training	Internship	HCL	10/02/2020	30/04/2020	3students
On the Job Training	Internship	CTS	25/01/2020	30/04/2020	30 students
On the Job Training	Internship	Solarities ,Madurai	02/01/2020	30/04/2020	2 students
On the Job Training	Internship	Nippon Seiki,Sricity	10/12/2019	30/04/2020	4 students
On the Job Training	Internship	Infosys	23/12/2019	20/03/2020	10 students
On the Job Training	Internship	Zoho	25/01/2020	22/05/2020	10 students

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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
Unlimited Innovations India pvt ltd,Chennai	19/09/2019	To provide Placement, Internship and expert Lectures in Microsoft Power BI, Monodroid Microsoft Azure	45
Nippon Seiki Co.Ltd	22/10/2019	Support for campus drive, internship and Industrial visits	50
Conquer Technologies	12/09/2019	Certified CAD Courses	22
Pyroferous Technologies	05/09/2019	Support for campus drive, Internship In plant Training	60
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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
282.71	257.01

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
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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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 patially)	Version	Year of automation
Autolib	Fully	5	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	17545	7015087	363	198300	17908	7213387
Reference Books	2053	687397	0	0	2053	687397
e-Books	0	0	0	0	0	0
Journals	92	235140	88	238045	180	473185
e-Journals	207	743817	0	0	207	743817
Digital Database	250	0	0	0	250	0
CD & Video	927	0	0	0	927	0
Library Automation	1	177000	0	0	1	177000
Weeding (hard & soft)	0	0	0	0	0	0
Others(specify)	12	0	0	0	12	0
			[View File](#)			

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
Elangovan	Theory of Computation	YouTube	07/06/2019
Abinaya	Basics of C Programming	YouTube	27/11/2019
		[View File](#)	

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	720	500	100	60	60	20	16	100	72
Added	8	0	0	0	8	0	0	0	0

Total	728	500	100	60	68	20	16	100	72

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

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100 MBPS/ GBPS

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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
NPTEL Videos in our Intra Network/Google Class rooms	**https://velammalitech.edu.in/cse-resources/**

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 incurredon maintenance of physical facilites
31.73	**28.85**	**242.22**	**220.2**

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)

Velammal Institute of Technology has a dedicated systems and procedures for maintaining and utilizing physical infrastructure like classrooms, administrative buildings, laboratories, sports facilities and other physical assets including the services like water supply and electric supply. House Keeping: The physical facilities such as Laboratories, Classrooms, Library and Sports Complex are maintained by House Keeping under the supervision of Nonteaching Staff / Floor Supervisors. Utilization of the classrooms is facilitated to the students in working days and it is also made available to the other governmental / nongovernmental organizations for conducting exams during Vacations and holidays. The masonry and plumbing works are carried out with local skilled persons and the expenditure are incurred from Maintenance. The daily activities of House Keeping are 1. Checking water availability in Toilets every hour 2. Checking Drinking water availability every day 3. Cleaning Class Rooms, Labs, Veranda, Office Room, Staff Rooms 4. Cleaning of Toilets every day 5. Cleaning the campus every week 6. Checking Furniture's in Class Rooms and Office every month 7. Checking Building cracks throughout the campus 8. Checking Electrical, Plumbing, Waterline and Sewage line every month Complaint on maintenance can be lodged through complaint box manually. Usage of central facilities like seminar halls and auditorium is controlled by the Principal's Office. Computers: The college has an adequate computer with high speed internet connections and softwares, distributed in different locales like departments laboratories, library and office. Computers are maintained by lab assistants and college level system administrator. Each laboratory has an assistant, who ensures proper usage of the computers and hazardous equipment's are handled with care. Lab equipment's are serviced by manufacturers and service personnel during summer and winter vacations. Library: The working hours of the library is from 8.30 a.m to 7.00 p.m on working days and from 9:00 a.m to 4.00 p.m. on holidays. Maintenance activities are made periodically to keep library clean. The activities like preservation of books from insects, dusts and shelving of reading materials promptly on regular basis by the Library Staffs. Sports Complex/ Activities: Through best practices, the students outshine in the field of sports. Ample space of infrastructure is provided for sports with good running track and Courts for indoor sports

activities. The play field are maintained by physical education department and the field equipment like post, umpire stand, score boards are also maintained by them regularly. The college uses housekeeping staffs to keep the play field clean and condition during the tournaments and sports day celebrations. Power Supply and Electrical Maintenance: Power supply is maintained by regular staff through proper system captive gensets as backup for 24hours. A Power generator (with capacity 320KVA) is installed in the campus to handle the occasional power shut down. Garden Maintenance: Tree plantation and garden maintenance are done by the gardener appointed by the Institute. NSS, NCC, YRC maintain certain areas of the college clean for planting Saplings.

https://velammalitech.edu.in/campus-infrastructure/

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	BC/MBC/SC/ST/First Graduate Scholarship	396	7660630
Financial Support from Other Sources			
a) National	0	0	0
b)International	0	0	0
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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
Aspiring Minds Programing Platform	22/08/2019	42	Aspiring Minds
Technical Training	22/07/2019	49	Internal Faculty of IT Dept.Velammal Institute of Technology
Six Phrase- Company Specific Training	19/08/2019	33	Six Phrase
Skill Rack Assessment Platform	16/03/2020	138	Skill rack
Technical Training	24/08/2019	82	Internal Faculty of ECE Dept
Business English Certificate (BEC)	30/08/2019	83	Mr. L. Dhanasekaran , Senior Manager, Business Development Examinations Services , South India

Introduction to labview Control system	22/06/2019	100	Internal Faculty of Mech
Silicon Technical Training	11/12/2019	120	Silicon Training
Training on automation	23/09/2019	100	CDCE Automation
Training on aptitude	02/07/2019	100	ELDO RANJITH
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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 passedin the comp. exam	Number of studentsp placed
2020	Placement /Higher studies/ Training	115	277	10	261
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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
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Sify Technologies, Wipro, CTS, Mind Tree, 8K Miles , Infosys, HCL, Kaar Technologies, Zoho, Tech Mahintr, Solarities, Atos Syntel, NSE IT,Extra ,Verizon,Marks,Uniphore, Coda Global,	314	254	Value Labs ,Voltech, Capgemini, Cognitive Platform Solutions,Cerium Systems CTS Tech Mahindra Nokia Lucas TVS BYJUS HCL Technologies MINDTREE LTD,Waffor Retail	16	13

Fresh wokrs, Value Labs, Amazon , Full creative, TCS Ninja, Tata Elx			Solutions, Iopex Technology, Bharti Airtel Limited, Radiant Design, Mondelez Foods P. L		

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E.	CSE	LOYOLA COLLEGE CAMPUS	PGDM
2019	1	B.E.	CSE	UNIVERSITY OF CALIFORNIA	M.S. Computer Science
2019	1	B.E.	ECE	University of Texas, Austin, USA	M.S.
2019	2	B.E.	ECE	SSN School of Management, Kalavakkam, Chennai, Tamil Nadu	M.B.A.
2019	1	B.E.	ECE	Anna University, Chennai, Tamil Nadu	M.E.
2019	1	B.E.	ECE	SRM College of Engg. & Tech., Cheng alpattu, Chennai, Tamil Nadu	M.Tech.
2019	2	B.E.	ECE	University of Buffalo, USA	M.S.
2019	1	B.E.	ECE	Clark University, Worcester, USA	M.S.
2019	2	B.E.	MECH	University of Windsor, Canada	Masters in Mechanical Engineering

2020	1	B.E.	MECH	Confederation College, Canada	Industrial Manufacturing

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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
GRE	5
TOFEL	2
Any Other	4

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

Activity	Level	Number of Participants
Cricket Team	Anna Universtiy Zone – I Winner	7
Gotham (Mafia) (Non technical)	Inter Collegiate	1
Master mind Tech-Hunt (Non technical)	Inter Collegiate	1
Technical Quiz	Inter Collegiate	2
Business plan	Inter Collegiate	2

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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 Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Anna Universtiy Zone - 1	National	1	Nill	113318104075	P.Rubesh
2020	Anna Universtiy Zone - 1	National	1	Nill	113319106068	Selva Gandhi
2020	Anna Universtiy Zone - 1	National	1	Nill	113317106056	Kirubakaran K
2020	Anna Universtiy Zone - 1	National	1	Nill	113316105026	R.Ranjith Kumar
2020	Anna Universtiy Zone - 1	National	1	Nill	113316205037	M.Ramesh kumar
2020	Anna Universtiy Zone - 1	National	1	Nill	113317205023	R.Mani

2020	Anna Universtiy Zone - 1	National	1	Nill	11331720 5037	C.Ramesh
2020	Anna Universtiy Zone - 1	National	1	Nill	11331711 4011	Aravindhan P
2020	Anna Universtiy Zone - 1	National	1	Nill	11331711 4312	Venkatesh R
2020	Anna Universtiy Zone - 1	National	1	Nill	11331711 4304	R Gowtham

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

Velammal Institute of Technology in 2019-20 had a Council of Class Representatives, with each Class Representative (CR) elected by the respective classes. The CRs represented the students in both academic and administrative bodies. Besides, Velammal Institute of Technology has proposed to create an avenue for student representation, to encourage extracurricular activities, and also to promote the general welfare of the College family and the wider community. Various club activities were organized and students were selected as leaders in their respective clubs of each of the 5 UG programs. Several Student Support services are available in the Institution. The awareness among students about the support services was created through various methods, namely: Institute Information Brochure, Institute Website, Academic Calendar, Circulars, Grievance Redressal Committee etc. Following are some of the major student support activities of the University Technical Events: Annual technical events for various courses such as INSIGNIA, CHANAKYA, AATRAL, XEMPLAR and had earned international recognition for its intellectual content and benefits to the student community. Extra-curricular activities: A number of activities are regularly conducted for students through NSS, NCC, YRC, Rotaract, Leoclub, Green Brigade, Literary Club, Computer Robotics Club, Quality Club, etc. Financial support for Student innovative projects: Centre for Technology Development and Transfer had introduced Student Research Support Scheme for encouraging students to undertake innovative research projects with financial support. Placement Training: IQAC along with the Centre for University - Industry Collaboration, offers several support activities towards students placement. The activities include conduct of training programmes, Pep-talks, mock online tests and mock interviews. Apart from these, internships, industrial visits and industry- oriented projects were also arranged. The information was passed on to the students through student representatives. Other activities: Students take active part in running their mess and hostel upkeep. They also willingly became representatives of extracurricular bodies to involve in organizing various activities ranging from cultural festivals to NSS camps.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

Activities and support from the Alumni Association 1. Alumni meets are organized yearly. 2. Every Alumni is encouraged to register in Alumni Association 3. Every Department maintains group email-ids for the passed out batches, there by industry openings and technical expectations have been

circulated among students. 4. Alumni's are regularly visiting the campus and offer technical talk and orientation programmes on the basis of the industrial needs. Since alumnus are the reputed stake holders of an educational system, a well-defined feedback form has been designed and circulated among alumnus for recording their views and suggestions

5.4.2 – No. of enrolled Alumni:

324

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Guest lectures, Mock Interview, Technical Session, Placement Roadmap

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)

Vision of the Institute: To be a leader in imparting quality technical education, research and enterprising skills in pursuit of professional excellence. Mission of the Institute: • To promote quality education and technical skills to meet the industry requirements. • To incorporate team work, leadership, skills lifelong learning . • To facilitate career development higher education assistance • To encourage innovative ideas for research development and entrepreneurship for societal needs • To inculcate ethical responsibility human values

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

Yes

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	Process used to identify extent of Compliance of University Curriculum for attaining POs and PSOs: process used to identify the extent of compliance of the university curriculum is followed. The Course Outcomes are formulated by the course in charges, course coordinator, Module coordinator and Head of the department by considering the university curriculum with appropriate knowledge level. 2. The feedback received through Survey analyses are considered for the process of identifying the compliance of university curriculum. 3. The formulated course outcomes are mapped with POs and PSOs by the course in charge, course coordinator, Module Coordinator and Head of the department to identify the extent to compliance of

	the university curriculum. 4. If yes, the Teaching Learning Process activities are proceeded to attain the formulated Course Outcomes, Program Outcomes and Program Specific Outcomes. 5. If No, the gaps are identified for the course and it is intimated to the university (If Necessary). 6. The weakly supported POs and PSOs are identified by mapping with Course Outcomes. 7. In order to strengthen and fulfill the gap, Content beyond the syllabus, Value Added Programs, Technical events, Guest lectures, Seminars, Laboratory experiments, Projects etc., are planned.
Teaching and Learning	The following are the innovative processes adopted by the institute towards Teaching and Learning Process (TLP): 1. Value Added Courses 2 Internships 3 Educational projects in related area / topic. 4 Content beyond the Syllabus 5 Pre-commencement Preparations 6 Departmental Academic Calendar 7 Lecture plan and notes 8 Course Learning Objectives and Course Outcomes 9 Soft copy of the lecture notes, question bank are forwarded to students through email. 10 Updating the library with appropriate books as suggested by the faculty 11 Modifying the laboratories to cater for the needs of revised regulation and recent trends 12 Monitoring student's performance through Slip Test, Internal Assessment I, II, III and Model examination 13 Re test for improvement and for absentees 14 Assignments, group discussions, quiz, seminars and projects are assigned to the students 15 Monitoring the teaching process through Online feedback from students 16 Oral feedback is obtained from students in the Class Committee Meeting 17 Academic Audit by peer committee 18 Result analysis Meeting of Internal Assessment and University Examination 19 Addressing issues of individual student 20 Additional classes for slow learners. 21 Personal guidance to the needy students 22 Issues related to the course are resolved by mentoring the students 23 Additional periods are allocated in the Time table based on the criticality of subject. 22 Symposium and Workshops are conducted. 23 Guest Lectures are conducted on Pre-requisite topics 24 Addressing the

	issues of faculty 25 Mentoring and guidance given to the faculty for a course handled earlier by senior faculty members. 26 Inputs from IQAC, and various feedback mechanisms are considered for improving the Teaching-Learning.
Examination and Evaluation	Process for Internal Assignment question paper setting and evaluation and effective process implementation Two sets of question papers with answer key are prepared by the Staff members based on syllabus, COs, previous university question papers question bank for Internal Assessments and Model Examination. In each semester, 3 Internal Assessment Examination and Model Examination is conducted. Portions coverage for the Examination Portion Coverage Internal Assessment I: 1st Unit First Half of 2nd Unit. Internal Assessment II: Second Half of 2nd Unit 3rd Unit, Internal Assessment III: 4th Unit and First Half of 5th Unit. Model Examination All the 5 Units. The Course in-charge submits the question papers to the Course coordinator and then to the Module coordinator and HOD for validation. In case any corrections are identified by the Course coordinator, Module coordinator and HOD, the question papers are modified by the course In-charge and submitted for further approval. After final validation, Course In-Charge submits the question paper to exam cell. One question paper will be selected by Principal to conduct the examination and other question paper is used for retest. The process for Question paper setting is as follows. 1. The exam cell distributes the answer scripts to the course In-charges, after the completion of internal examination. 2. Answers scripts are cross evaluated by the course In-charges. 3 Sample Answer scripts are verified by HOD. 4 The answer keys are verified by the Course coordinator, Module coordinator and HOD. 5 The answer key for Internal examination question paper is displayed in the notice board for all the courses as per the Assessment order. 6 The Evaluated answer scripts are distributed to the students. 7 If any discrepancy in the evaluation, the students will approach the course In-

	charges and corrective measures were taken. 8 Then the marks of the students are submitted to Class coordinator and the consolidation Marks Sheets are prepared by Class coordinators and submitted to Principal.9 Retests are conducted for students who fail in Internal Examinations.
Research and Development	Research and Development Cell is formed to promote Research and Development in the institute. The cell includes faculty, academicians and researchers. The cell meets once in a fortnight and delivers guidelines for quality improvement in R D. The institute motivates the faculty to undertake research projects in AICTE, DRDO, DST, TNSCST, Young Scientist Scheme etc. Well-equipped Research Labs are developed for the funded projects to improve quality of the research. The institute motivates the faculty and students to file patents for the research work. The institute motivates the faculty to undertake research activities through doctoral Programmes. It motivates them to publish research papers. Faculty members are encouraged to attend and present papers in conferences and financial assistance are provided. The institute motivates the students to undertake complex engineering projects as a part of curriculum as well as for participating in external project competitions. Students' project exhibition is organized and best projects are awarded with cash prizes. Potential research collaborators are identified and MoUs are established.
Library, ICT and Physical Infrastructure / Instrumentation	The institute regularly increases ICT facilities for classrooms, tutorial rooms, seminar halls and Laboratories. The institute regularly enhances the Internet connectivity facility. The institute regularly enhances the power backup facility for laboratories. The institute has FTP Server for resource access. Central Library gives guidelines for improving the quality of library resource. IEEE institutional login enables the faculty and students for their academic and research works. Suggestions from departments for Library are used for the improvement in quality of library resources. New books/journals are purchased every year

	to update the library. Each Department has its own Library facility that includes text books, project and research papers.
Human Resource Management	The recruitment procedures, service rules and promotion policies are made transparent and employees are benefitted with CL, ML and EPF. Employee's salary will be credited in the bank account directly. Pay slips are issued to the employees every month. For professional development of the human resource, the institute delegates the faculty and staff to undergo development programs outside the institute, provides technical resources and financial assistance to undertake such development programs. The institute organizes HR development Programmes for faculty, staff and students for skill up gradation and training. Faculty and students are felicitated for their academic achievements. The institute uses performance evaluation methods for the staff members. At the end of every year, performance evaluation of the staff is done by Head of the Institution. This is used for deciding promotions and increments. Self-performance evaluation is also done by the faculty and reports are submitted to the Head of Department which in turn they will submit the same to the Principal
Industry Interaction / Collaboration	MoUs are signed with companies like Infosys, Cloud Bull, CDCE HP Automation ,Infoziant, National Instruments, Intelligence quality etc. Industrial visits to companies like Infosys, CTS, ISRO etc. is organized to understand the real time scenario. Infosys Campus Connect programme is facilitated to enrich faculty and students in the market trend. Orientation programmes and guest lectures are conducted for the students by the Industry experts. Alumni are placed in the reputed industries are invited for expert talk related to industry trends and needs required for the students. Entrepreneurship orientation activities are organized for the students.
Admission of Students	Admission of the students is through Single Window counselling system conducted by Anna University, Chennai. Admissions for Management Seats are

through an Admission Committee constituted by the Management. The institute maintains this repute by adopting following strategies: Maintaining good results in University examinations by means of recent trends of teaching learning, providing quality infrastructure and facilities, maintaining good training and placement track records. Encouraging extra-curricular activities like sports and other competitions. Maintaining Ragging-free environment.

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

E-governace area	Details
Planning and Development	The functions of Planning and Monitoring Board are as follows • Planning the academic activities, budget and purchase, academic calendar, extracurricular and co-curricular activities, etc. • Monitoring the execution of the planned activities.
Administration	Administration module of the institute resource planning includes indenting and management of inventories. Apart from this, all aspects of Management Control is enabled through real-time monitoring of flaws, Security, house- keeping and all aspects of administration are covered by the institute resource planning system
Finance and Accounts	All finance, both revenue and expenditure is handled by the software. All salary payments are through online transfers and all accounts are maintained online. Students are allowed to pay their fees through demand Draft or cheque. All records are reflected on the students and parents by providing full transparency.
Student Admission and Support	The entire admission process is online as well as issuing and collection of application forms for management quota and TNEA counselling through government quota. Students can apply to their chosen course from anywhere in the world. However, students are expected to meet the eligibility criterion set by the affiliated university (Anna University) and it is ensured that they get proper guidance. All students can reach their teachers through the google classroom and emails. Almost all relevant

	documents are placed on the online system as well. Circulars and other communication also happens through the HOD to class coordinators and then to students.
Examination	Considering that the College is an affiliated College, we are not able to implement much of e-governance in the area of Examinations due to the requirement of paperwork from the affiliated University. However, we do use the open source platform for announcement of dates and other minor aspects related to Examinations.

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
2020	Dr. B.Sridevi	PATENT Published No.-202041009208	Indian Patent	1600
2020	Dr. B.Sridevi	PATENT Publishedn NO.-202041014806	Indian Patent	1600
2020	G.SETHURAM RAO	PATENT Published No.-202041021625	Indian Patent	1600
2020	Dr.R.Jothi Chitra	PATENT Published No.-202041025860	Indian Patent	1600
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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)
2019	Working with Microsoft Excel	Working with Microsoft Excel	09/12/2019	09/12/2019	12	5
2020	(ECE) Webinar Series on "Enhancing RD	(ECE) Webinar Series on "Enhancing RD	20/05/2020	26/05/2020	60	Nill

						10	5
2019	Fire Ext inguisher Operation	Fire Ext inguisher Operation	10/06/2019	10/06/2019		10	5
2019	Ms Office Training	Ms Office Training	14/06/2019	14/06/2019		Nill	5
2019	Maintena nce And Service Of Equipment' s By Precision Instrument s	Maintena nce And Service Of Equipment' s By Precision Instrument s	05/09/2019	05/09/2019		Nill	10
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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
STTP on Operating Systems	3	03/12/2019	07/12/2019	5
FDP on Recent Trends in Big Data Analytics and Research Issues	3	02/12/2019	14/12/2021	5
STTP on Applied Mathematics Scientific Computation for Engineering Research	2	04/11/2019	09/11/2019	5
five day Online Faculty Development Program on " Data Science and Cloud Computing	1	18/05/2020	22/05/2020	5
FDP-Effective Projects proposal Writing	1	05/05/2020	09/05/2020	5
ARTIFICIAL INTELLIGENCE MACHINE LEARNING APPROACH	2	04/06/2019	08/06/2019	5

Novel Materials and its industrial Applications	1	13/05/2020	18/05/2020	5
Intelligent Robatics and Machine vision Technology (IRMVT) in current scenario	1	25/05/2020	29/05/2021	5
Energy Conservation and Waste Heat Recovery	1	08/07/2020	13/10/2020	5
LaTeX	1	14/05/2020	17/05/2020	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
101	101	51	51

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
i. Free Transportation to college ii. EPF is paid to all employees as per PF act. iii. Tuition fee waiver for the wards of the staff iv. Fee concession for faculty wards in Velammal School. v. Staff producing excellent results in their subject will be awarded. vi. Staff achieving 100 attendance will be rewarded. vii. Employees who complete more than 10 years of service are honored	i. Uniform is Provided ii School Fee concession for their wards	i Student achieving 100 percent attendance will be rewarded. ii. For Academic excellence,"Founder Chairman Merit Scholarship" is Presented. iii. Merit Scholarship for economically deprived students eligible in academic sports. iv. The top ten students of each class are given two extra library cards to enable them to take additional books.

6.4 – Financial Management and Resource Mobilization

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

The management conducts frequent internal audits. External financial audit is done on Velammal Educational trust accounts by its audit team.

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
Kani Tamil	25000	For Research

Peravai(Dr.V.P.Gladis Pushparathi)		
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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	NBA	Yes	IQAC
Administrative	Yes	NBA and Velammal Educational Trust	Yes	IQAC

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

1. The parents are very supportive of the initiatives taken by the College. The institution doesn't have a registered parent-teacher association. 2 However, the college maintains contact with the parents through the Principal's office as well as class mentors. 3. Parents were called for mentor meeting about their wards performance once in a semester and the institution provides necessary support to the parents as well as their wards for subsequent improvement in performance

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

1. A two-day orientation programme for the support staff is held every year in the month of June and December. 2.The program includes motivational speech by the Advisor and Principal

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

1. Incentive scheme for research and development like attending conferences and workshops . 2. Course-handouts in all courses 3. Value added courses for all UG programs and MoU signed with leading industries to set up laboratories in our institution.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
c)ISO certification	No
d)NBA or any other quality audit	No

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
2019	ACADEMIC AUDIT and NAAC/NBA AUDIT I	24/07/2019	22/07/2019	24/07/2019	101
2019	ACADEMIC AUDIT and	13/09/2019	09/09/2019	11/09/2019	101

2019	ACADEMIC AUDIT and NAAC/NBA AUDIT III	28/12/2019	26/12/2019	27/12/2019	101
2020	ACADEMIC AUDIT and NAAC/NBA AUDIT I	06/01/2020	03/01/2020	04/01/2020	101
2020	ACADEMIC AUDIT and NAAC/NBA AUDIT II	17/02/2020	13/02/2020	14/02/2020	101
2020	ACADEMIC AUDIT and NAAC/NBA AUDIT I	16/03/2020	13/03/2020	14/03/2020	101

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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
Freshers' day	31/08/2019	31/08/2019	110	150
Training session on sexual harrassment	19/09/2019	19/09/2020	90	0
Gender Equality Session tracing importance of women in corporate world	10/10/2019	10/10/2019	107	0
Women Empowerment-Ology	15/11/2019	15/11/2019	80	0
Self-defence Training	28/11/2019	28/11/2019	95	0
Campus to Corporate	14/12/2019	14/12/2019	60	85
Pongal Celebration	10/01/2020	10/01/2020	55	60
Guest Lecture on Cyber security	17/02/2020	17/02/2020	50	75

Woman's Day Celebration	08/03/2020	08/03/2020	65	78

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
? Uprooted trees are removed and new trees are planted. ? Deforestation is not entertained in the campus. ? Plantation and Environmental awareness camp by NSS ? The run off rain water is diverted into the percolation pits in all the buildings of the campus to increase the ground water level. ? Reverse Osmosis plant exists in the campus. ? Waste management (Composting and Vermi composting) is taking place. ? Safe disposal of laboratory wastes. The above Environmental Consciousness and Sustainability/Alternate Energy initiatives are incorporated in our institution. In an effort to use sustainable and alternative energy sources, our Institute has installed a solar panel system. 25-30 of the colleges power needs are supplied by this renewable energy source. The campus has a structure for collecting rainwater and using it. Green audit done in the campus. All old light bulbs are replaced with more energy-efficient LED lights. Replacement of old fans, lighting, and other components with energy-efficient electrical accessories and air conditioners with the 3-star rating.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1300
Provision for lift	No	0
Ramp/Rails	Yes	1300
Braille Software/facilities	No	0
Rest Rooms	Yes	1300
Scribes for examination	Yes	1200
Special skill development for differently abled students	No	0
Any other similar facility	No	0

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
2020	1	1	14/06/2019	3	Blood Donation	Creating Awarness on Blood Donation	20
2020	1	1	06/02/2020	3	Road Safty	Awarness	15

2020	1	1	12/03/2020	3	Save Nature Camp	Against Deforstation	16

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

Title	Date of publication	Follow up(max 100 words)
Velammal Institute of Technology Handbook	12/06/2019	The activities mentioned in the handbook is designed in such a way that all are implemented meticulously and periodically

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Gender Equality Session	10/10/2019	10/10/2019	107
Women Empowerment- Ology	15/11/2019	15/11/2019	80
Self-defence Training	28/11/2019	28/11/2019	95
Woman's Day Celebration	09/03/2020	09/03/2020	145

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

? Rain-water harvesting ? Prohibiting smoking and making a tobacco-free campus ? Tree plantation ? Reverse Osmosis plant to provide pure drinking water ? Sewage Treatment Plant

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

The Institution can proudly proclaim that the following 4 best practices have been chosen to show case the achievements of the college: 1. Placement and Training 2. Student Mentoring and Counseling 3. Audio Video Lectures 4. Founder Chairman Scholarship(FCS) Best Practice 1: 1. Title of the practice: Placement and Training 2. Objectives: To train the students with sound technical knowledge, to excel in communication skills and to face the corporate's expectation to achieve success. 3. The Context: To ensure that students graduate successfully with a job offer in hand, the institution needs to establish a solid reputation, stand out from the crowd, and deliver exceptional training. 4. The Practice: The placement officer is responsible for campus recruitment. A team of placement coordinators, consisting of one faculty member and two students from each department, supports the placement officer. Students are regularly exposed to outside specialists from various academies to improve their aptitude, skillrack for improving the programming skills, verbal ability, and reasoning abilities. 5. Evidence of Success: Out of 341 eligible students, 301 students were placed in top-tier MNCs like TCS, Accenture, WIPRO, Zoho, and others. The placed students count is increasing steadily each year. Keerthana

K, a student from CSE department, was chosen and will receive an annual salary of Rs. 14.20 lakhs per annum. 6. Problems Encountered and Resources Required: Students are unable to participate in the direct training programme from professionals because of the lockdown. Online sessions are then introduced as a solution to this issue. Students are benefitted. Best Practice 2: 1. Title of the practice: Student Mentoring Counselling 2. Objectives: The main objective is to assist each student in making the decisions that are best for their future academic and personal development. The Context: 3. students lack of self-confidence, confidence in the medium of instruction, or application owing to a lack of interest in the subject are the most significant student factors to sort out. 4. The Practice: Each member of the teaching staff is assigned a class of no more than 20 students, and they are all responsible for providing academic counselling and keeping track of the students attendance and academic development. Additionally, they stay in touch with the pupils parents. Students are pointed in the direction of on-call professional counsellors on campus. 5. Evidence of Success: Even in the difficult situation students got success by the constant coaching and motivation by the faculty members. 6. Problems Encountered and Resources Required: Students are unable to engage in the direct classes from professionals because of the lockdown. Online sessions are then introduced as a solution to this issue. Students are benefitted and gained. Best Practice 3: 1. Title of the practice: Audio Video Lectures 2. Objectives: To provide training to the students through social network. 3. The Context: To ensure that the students should come out successfully with flying color by way of enriching knowledge through latest audio video technology of social media apart from regular academic practice. 4. The Practice: In order to grasp knowledge through YouTube channel and other social medias instead of getting input with in the class room in micro level, macro level approach for the students is ensured. 5. Evidence of Success: During pandemic period the social media played vital role by providing audio video lectures. Those who are unable to access the direct lecture from faculty and proved the successful result. 6. Problems Encountered and Resources Required: We have to find an alternate solution for the student those who are not able to get connected due to non availability of network. Best Practice 4: 1. Title of the practice: Founder Chairman Scholarship(FCS) 2. Objectives: To encourage students to perform well in academics by awarding merit scholarships. 3. The Context: Founder –Chairman Scholarship is a merit scholarship provided by the institution for the outstanding performance of the students. Anna University end semester results are taken into account for calculating the CGPA with eligibility of 8.5. 4. The Practice: Founder-Chairman Scholarship (FCS) is provided for the students who secured more than 8.5 CGPA for each department based on the below mentioned categories every year. • 9 and above CGPA - Rs.10,000/- • 8.75-8.99 CGPA - Rs. 3,000/- • 8.50-8.74 CGPA - Rs. 1,000/- • 100 attendance - Cash Award –Rs 500/- 5. Evidence of Success: Every year our institute organizes the Fresher's Day for the first year students in a grand manner. At this juncture the Founder Chairman Scholarship will be issued to students. In addition to that our institution awards the students with a cash amount equal to the prize money won by them in the competitions. 6. Problems Encountered and Resources Required: We need to collect the CGPA of end semester examinations department wise, consolidate it and filter based on the categories which requires manual work and class coordinators of each class take care of the task.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://velammalitech.edu.in/

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

STRENGTH 1. Committed, progressive, experienced and supportive management. 2. ALL 5 UG programs Accredited by NBA and institution accredited by NAAC 3. Support programmes for the slow learners. 4. Well qualified and experienced faculty members. 5. Well-structured student mentoring system. WEAKNESS 1. Less no. of R D projects. 2. Less no. of Consultancy activity. 3. No Autonomy in syllabi planning. OPPORTUNITIES 1. A large number of scholarships dispersed to students from marginalized and economically deprived section. 2. Increased opportunities to develop and establish new programmes to meet the new and growing demands of society. 3. Expertise faculty to tap the corporate sector for consultancy and funding for research projects. 4. Placement initiatives can be strengthened by tracing out the possible industries. CHALLENGES 1. Keeping pace with the rapid changes in the higher education 2. Generation of resources for up gradation of infrastructure. Mentoring: student's mentoring system- Mentor meets for continuous counseling of students are conducted which has led to better performance and results of Students Scholarships: merit scholarship Scheme Merit scholarship is given to students and has motivated them in better performance. Coaching: special coaching - Academic weakness of students is identified and follow up is done to improve their performance which has led to better results. Placement Training- Separate training in all fields of placement, monitored by skilled trainers for the betterment of students Skill based learning: Innovate: Project display Techbrahma: State level project competition and paper presentation Workshop on Big data Analytics Implementing the innovative idea of students in their respective field of interest and exposure to industrial requirements. Project display and paper presentation contest was conducted for students from all over Tamil Nadu from which they were able to gain new ideas. Workshop was conducted on Big Data Analytics which has led to build their capabilities in Big Data technologies and to bring transition in big data science. Seminar on 3D printing Technology. Value added course on CADD software. NCAT: National Creativity Aptitude Test- Has led to assess the creativity quotient of a student and his level of achievement motivation.

Provide the weblink of the institution
https://velammalitech.edu.in/

8.Future Plans of Actions for Next Academic Year

Admission ? To achieve 100admission to all 5 UG programs ? To get students with high engineering cut off Academics ? To achieve within the top 5 position among the affiliated colleges of Anna University. ? To increase the number of university rank holders. Placements ? To achieve 100 placement among the students. Development Programmes and Collaborations ? Different Club activities to be initiated. ? To enhance the employability skill of the students ? Firm up collaborations to bridge the gap between academia and industry. Research and Innovations To initiate research and development in the campus. Institutional Social Initiatives Organize more community service activities to contribute to the wellness of the society. Accreditation To maintain the standards of NBA and NAAC in our institution in all aspects.