

ANNUAL QUALITY ASSURANCE REPORT (AQAR)

FOR THE ACADEMIC YEAR 2018-19



Submitted by:

Internal Quality Assurance Cell (IQAC)

Valliammai Engineering College

SRM Nagar, Kattankulathur -603203
(Affiliated to Anna University)

To
National Assessment and Accreditation Council (NAAC)
Bangalore, India



The Annual Quality Assurance Report (AQAR) of the IQAC
(For Affiliated/Constituent Colleges)

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. *The AQAR period would be the Academic Year. (July 1, 2018 to June 30, 2019)*

Part – A

Data of the Institution

(data may be captured from IIQA)

1. Name of the Institution **SRM VALLIAMMAI ENGINEERING COLLEGE**

- Name of the Head of the institution : Dr. B. CHIDHAMBARA RAJAN, M.E., Ph.D.,
- Designation: PRINCIPAL
- Does the institution function from own campus: YES
- Phone no./Alternate phone no.: 044-27456703
- Mobile no.: 9443304768
- Registered e-mail: principal@valliammai.co.in
- Alternate e-mail : srmvec@valliammai.co.in
- Address : SRM NAGAR, POTHERI
- City/Town : KATTANKULATHUR
- State/UT : TAMIL NADU
- Pin Code : 603 203

2. Institutional status:

- Affiliated / Constituent: Affiliated
- Type of Institution: Co-education
- Location : Urban
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing

- Name of the Affiliating University: Anna University
- Name of the IQAC Co-ordinator : Mr. K. Guru
- Phone no. : 044 - 27454784

Alternate phone no. : 044 - 27454726

- Mobile: 9994260833
- IQAC e-mail address: iqac@valliammai.co.in
- Alternate Email address: principal@valliammai.co.in

3. Website address: srmvalliammai.ac.in

Web-link of the AQAR: (Previous Academic Year):

<http://www.srmvalliammai.ac.in/IQAC/AQAR2017-18.pdf>

4. Whether Academic Calendar prepared during the year?

Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

Weblink: : http://www.srmvalliammai.ac.in/attachments/Academic_Calendar_2019-20.pdf

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	A	3.03	2015	Extended upto 31.12.2024

6. Date of Establishment of IQAC: **07/09/2012**

7. Internal Quality Assurance System

7.1 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
IQAC meeting	11.07.2018, 12.11.2018, 27.03.2019 (One day)	27 (IQAC Members)
Faculty Development Programmes	24.07.18, 17.03.20 (Two days)	Staff and Students
Orientation programmes	13.07.19 (One day)	Staff
Staff training programmes	17.7.18, 4.9.18, 17.9.18, 25.9.18, 28.9.18, 12.10.18,26.11.18, 28.1.19,26.2.19,11.3.19,16.3.19	Staff

Workshops	7.09.2018 (One day)	Staff and Students
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Note: Some Quality Assurance initiatives of the institution are:

(Indicative list)

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- Academic Administrative Audit (AAA) conducted and its follow up action
- Participation in NIRF
- ISO Internal audit
- ISO Certification
- NBA accreditation
- Motivation for R&D
- Recognition for Publications

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	Funding Agency	Year of award with duration	Amount (Rs.)
CSE DEPARTMENT	DST SERB	2 YEARS	11,50,000
CSE DEPARTMENT	KOREAN RESEARCH BRAIN POOL FUND	1 YEAR	30,00,000
ECE /EIE DEPARTMENT	DST-FIST	5 YEARS	40,00,000
EIE DEPARTMENT	AICTE -MODROB	3 YEARS	18,82,000
CIVIL DEPARTMENT	DST-NIMAT	1 YEAR	1,60,000
CHEMISTRY	DST-SERB	2014 (3 Years)	19,00,000

9. Whether composition of IQAC as per latest NAAC guidelines: Yes

*upload latest notification of formation of IQAC

10. No. of IQAC meetings held during the year: 4

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website..... Yes

(Please upload, minutes of meetings and action taken report)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? No

If yes, mention the amount: Year:

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

* Faculty Development Programs, Workshops and Seminars were organised for ensuring quality in higher education and creating awareness to bridge the gap between teaching and learning process.

* Academic Calendar for the session was implemented.

* Institutional Social Responsibility activities were given due importance.

* Academic autonomy was ensured through systematic check points.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Special Coaching Classes for slow learners	Improvement in results
Value added courses	Students from different streams attended and received certificates for additional courses of their interest
Support for Research and development	Staffs and Students published research journals and proposals

14. Whether the AQAR was placed before statutory body? Yes /No:

Name of the Statutory body: **Governing Body** Date of meeting(s): 25/01/2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?

Yes / No:

UGC's Expert Committee for Fresh Autonomous Status

Date: 20-21 May 2019

16. Whether institutional data submitted to AISHE: Yes /No:

Year: 2018-19

Date of Submission: 07.01.2019

17. Does the Institution have Management Information System?

Yes

If yes, give a brief description and a list of modules currently operational.

(Maximum 500 words)

We maintain ERP database management system for student academic official progress, Accounts (Financials) progress, Staff official work management system and Centralized purchase (Inventory) and assets maintenance

Module 1:

- ERP data maintenance for staff and students.
- SINGLE DASH BOARD will support all official progress in student end and staff end
- Centralized data maintenance for the whole college
- We have implemented redundancy data connectivity. hence it helps to maintain Zero downtime.
- We implement simple and reliable disaster recovery for all application data storage.
- DR location connectivity maintained by the interconnectivity of Point to Point Technology (No data loss or downtime)

Module 2:

- We offer online teaching and learning pedagogy
- Online the compiler will help us to demonstrate the laboratory experiments to students
- We have 15 GB Cloud storage for each student and 1 TB storage for staff members for teaching and learning progress.
- All students and staff have unique official IDs for the official process.

Concept of our MIS:

- **Data** – the data that the information system records
- **Record keeping** – management information systems record all academic and non-academic transactions of an organization and provide a reference point for the transactions.
- **Reports** –the reports are generated automatically analyzing the data from the filing system and compiling it.
- We are maintaining Fast data processing and information retrieval, data accuracy, security, Reduced data duplication, backup systems, Easy access to information

The above MIS online systems will help us to analyses the information, and reports data to aid in management decision-making and future improvement and upgradation.

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

Valliammai Engineering College is currently having the following mechanisms for effective delivery of curriculum.

- Our College administration provides a well constructed Routine/Academic Schedule/ time table for each semester for both UG and PG classes.
- Number of classes for each topic is decided according to the syllabus and credits assigned to each topic/Group/paper etc.
- Departmental Heads prepare the routine work load and other individual work load which is approved by the Principal duly.
- All the faculties are allotted the subjects as per their interest. Once the subject is allotted the concerned faculty members prepare lesson plan according to which they handle the classes so as to ensure the proper completion of syllabus. Faculty members refer text books and standard reference books and prepare hand written notes for lecture delivery.
- Faculty members prepare their lectures according to the syllabus allotted and classes available.
- Classes are held according to the schedule under the supervision of Head of the Department.
- Our central Library is a paradise for those who have a passion for reading Books and enthusiasm for widening their knowledge base in depth and extent. It has a fully equipped spacious library in an area of 2700 Sq.m is spread over 2 storeys and is housed in the New Block. The college has also subscribed for journals and magazine periodicals including IEEE online journal, to give an exposure to our students to the latest technology. The college has a very good separate reference section, two reading halls, a reprographic section and a CD section to cater to the needs of the students and faculty.
- Our college has NPTEL (National Programme On Technology Enhanced Learning) chapter where students can have the access of e-learning through online Web and video courses for various streams.
- Various classroom teaching methods based on various needs of different subjects are regularly used for the effective delivery of the curriculum such as
 - Chalk and Blackboard method
 - ICT-enabled teaching-learning method.
 - Use of Scientific models and charts for effective lecture delivery.
 - Micro-teaching and seminars by students related to curriculum.
 - Guest Lecture on various subjects are regularly conducted to teach the recent advancements.
 - Workshops are conducted to enhance the skills of students
 - Students are sent to industries to learn the practical requirements and to get knowledge of how, what

<p>they have learnt is being used.</p> <ul style="list-style-type: none"> Students are being regulated to attend in plant training & internship to various companies and government organizations.

1.1.2 Certificate/ Diploma Courses introduced during the Academic year

Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	focus on employability/ entrepreneurship	Skill development
Construction concept of prefabricated structures in collaboration with Sree association.	-	31.01.2019 to 21.02.2019	Yes	Knowledge gained on Prefabricated Structures.
Analysis Software using STAAD. Pro	-	31.01.2019 to 21.02.2019 15 Hours	Yes	Knowledge gained on STAAD. Pro
Foundation engineering	-	01.07.2018- 12Week	Yes	Understanding the behaviour of soil
Geotechnical engineering laboratory	-	10.08.2018- 4 Week	Yes	Testing the soil strength
Landscape Architecture and site planning	-	10.08.2018- 4 Week	Yes	Digital elevation modelling enables quick and accurate surveying.
Matrix method for Structural Analysis	-	10.08.2018- 8 Week	Yes	Understanding the behaviour of structure
Advanced Concrete Technology	-	01.07.2018- 12Week	Yes	Know the material properties and applying to during design.

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme with Code	Date of Introduction	Course with Code	Date of Introduction
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NIL

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	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
NA	NA	NA	NA	NA	NA

Already adopted (mention the year)

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

	Certificate	Diploma Courses
No of Students	22	Foundation engineering
	5	Geotechnical engineering laboratory

	1	Landscape Architecture
	6	Matrix method for Structural Analysis
	5	Advanced Concrete Technology
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
Construction concept of prefabricated structures in collaboration with Sree association.	04.08.2018 & 25.08.2018	32
Analysis Software using STAAD. Pro	31.01.2019 to 21.02.2019	63
1.3.2 Field Projects / Internships under taken during the year		
Project/ Programme Title	No. of students enrolled for Field Projects / Internships	
Construction of Building (Steps Stones Pvt.Ltd ,No.1/1,Sakthi Nagar ,2rd Street,Chennai-94)	2	
Emami Tejomaya Project (Larsen &Toubro Limited,Construction, Building &Factories P.B.No.979,Mount Poonamallee Road, Manapakkam,Chennai-89)	2	
Construction of Building (Government of Tamil Nadu,Public Works Department,Building Centre and Conservation Division,Chepauk,Chennai-05)	2	
Studying of plans, Centering, Fabrication and Placement of Steel reinforcement (Public Works Department, Buildings Construction Sub Division III, Division I(Medical Wortks),Chennai-600005)	5	
Construction of Office Building Public Works Department , Building (C&M) Sub Division,Cuddalore-1	5	
Pedestrian Road Crossing Behaviour and Freight Demand Forecasting (National Institute of Technology Tiruchirappalli-620015)	1	
Construction of General Hospital (NLC India Limited ,Neyveli)	5	

1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

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

The students of each class are guided to the Computer Lab as per a pre-planned schedule. Randomly generated User ID & Password are distributed to the Students. They login to the Online Feedback Web portal and submit the filled in feedback questionnaire for each and every subject. The questionnaire is designed to enable them to give their opinion as Very Good, Good, Satisfactory or Not Satisfactory. The consolidated reports are generated online and submitted to the HOD & Principal. Later, the consolidated report will be sent to the individual faculty members. Feedbacks from students on campus infrastructure facilities are obtained regularly through College web portal/ Facebook/ Suggestion box / email. Based on the feedback, if there are any drawbacks identified, it will be rectified. The action taken report will be displayed in the public domain. 'Complaints and suggestion register' are available at different places such as Library, Hostel etc. for easy access of students.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
B.E CIVIL ENGINEERING	180	40	17
M.E. STRUCTURAL ENGINEERING	18	50	17
CSC	120	98	98
ECE	180	122	122
M.E.-C.S	18	2	2
EEE	120	43	43
EIE	120	22	22
IT	120	91	91
MECHANICAL	180	68	68
MBA	120	118	115

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 full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-	572	143	232	14	236

19					
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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 (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
29	29	WHITE BOARD, COMPUTER, PROJECTOR	9	3	E- books and E- journals
18	18	Projector	6	--	NPTEL videos

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

Mentoring system : Total Development
 Number of faculty mentors : 24
 Number of students per mentor : 20 per mentor
 Frequency of meeting : 3 per semester / Need based
 Effectiveness : Each student has to fill up a Student Data book with details of parents/guardian, addresses, contact numbers and an academic history of student marks in all university examinations and periodical tests. The Student Data books are maintained by the mentors. Any personal difficulties of the student will be discussed by the mentors and the same is recorded in the students data book.

Yes. Student Mentoring System is adopted in the Institution.

- This enables bridging gap between the Teachers and Students.
- This creates a better environment in the college, where students can approach teachers for both educational and personal guidance.
- It is happening in weekly once and motivate students to attend holistic activities like placement, internship and technical symposium.
- Providing guidance/suggestions for the slow learners.

Mentoring of students is assigned to the all the faculties. A minimum of 15 to 18 students is allotted to each faculty. The faculty has the responsibility of caretaking those students performance in academics, his class attendance and overall activities. The mentors track the student details till he graduates.

Faculty mentors obtain the parent details of the students such as their occupation, residence, income etc.

Students progress is being intimated regularly over phone and post. Parents meet the mentors when they visit the college for parent teacher meet.

The greatest challenge that faculty face with incoming students is helping them make the transition from the format of school to undergraduate education—the short-term goals, predictable closure and tight structure of semester scheme.

Mentors also bother about the notion of scientific integrity, the better prepared they will be to deal with ethical questions that arise in their own work.

Mentors advise them to adhere to department ambience, other faculty acquaintances, and off-campus people met through jobs, internships, or chapter meetings of professional societies. Building a professional network is a lifelong process that can be crucial in finding a satisfying position and career. Mentors are aware of students who seem to be finding it particularly difficult to take active roles in academic or social settings and take the initiative to include them. Ask them about their research interests, hobbies and activities outside of their program. Mentoring also helps in overall development of the student psychology and his attitude towards education.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
595	246	1:10

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
240	240	-	18	55

2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Mr. M. MOGANRAJ	Assistant Professor	GOOD CITIZEN AWARD, by the Creative Media Team of Raj Nivas, Puducherry.
2019	Dr. S. GUNASELVI	Assistant Professor	YOUNG SCIENTIST AWARD, by International Global Peace University.
2018	Dr. B. Muthusenthil	Associate Professor	Post-Doctoral fellowship from Korean Government Brian pool research fund.

2018	Mr. K. Shanmugam	Assistant Professor	Tamil
2018	Dr. B. Vanathi	Professor and Head	Education Matters Award
2018	Dr. V. Dhankoti	Associate Professor	IIT – Bombay Award
2018	Dr.M.Murugan	Professor and Vice Principal	‘Shri P K Das Memorial Life Time Achiever Award 2018’
2018	Dr.M.Murugan	Professor and Vice Principal	ISA ‘Excellence Award’ Finalist, held at Montreal, Canada
2018	Dr.Komala James	Professor and Head of the Department	Best IETE Student Forum Award
2018	Dr.Komala James	Professor and Head of the Department	Topper Award with Gold Elite certification
2018	Dr.Komala James	Professor and Head of the Department	100 Most Dedicated Professors by World Education Congress
2018	Dr.Komala James	Professor and Head of the Department	Best Professor
2018	Mr.Suresh Pungaiya, P.Ramu	Assistant Professor	SAE Efficycle-Participation

2019	Mr.Suresh Pungaiya	Assistant Professor	5 th out of 100 colleges in sales Presentation SAE event BAJA
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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
UG	103	ODD SEM/ 2018-2019	8.10.19	14.1.19
		EVEN SEM/ 2018-2019	22.3.19	23.6.19
PG	413	ODD SEM/ 2018-2019	8.10.19	14.1.19
		EVEN SEM / 2018-2019	22.3.19	23.6.19

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

1. For Internal - Periodical Test Question papers are set by the subject faculties with reference to university question papers considering the following factors:

- i. Coverage of portion.
- ii. Equal weightage to the units.
- iii. Using two sets of question papers.
- iv. Questions with appropriate difficulty level.
- v. Proper split of marks.
- vi. Inclusion of both short and long questions.
- vii. Questions are taken satisfying the Bloom's Taxonomy.
- viii. Blooms Taxonomy is followed to help the students to learn and represent what they have learnt in different levels.
- ix. **Blooms Taxonomy** includes six levels which include Remembering, Understanding, Applying, Analyzing, Evaluating and Creating.

2. Exam Co-ordinator will check the soft copy of question paper and answer key to ensure the quality of question paper. In case of deviation, question papers will be revised.

3. Assignments are given to students for all the subjects and their performance is analyzed.

4. Answer sheets are exchanged among the faculty members handling same subjects and evaluated.
5. Three Internal Assessment Test are conducted and are being evaluated within 3 days after completion the exams.
6. Internal marks are allotted based on the assessment test marks and the student's attendance Percentage.
7. If a student fails to attend Periodical Tests the student will be awarded zero mark. Retest will be conducted only for the student with genuine reason.
8. Improvement test for periodical test 1 and 2 are conducted based on students request.

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

An academic calendar is prepared by the institution as per the university notification. The academic calendar consists of

- a. Vision and Mission of the institution.
- b. Member of governing council.
- c. List of teaching and non-teaching staff members of all the department.
- d. Information about students counselling cell and boys and girls hostel.
- e. Rules and regulation of our college and campus facilities.
- f. Timings of college bus.
- g. Events and activities to be conducted as per date and day for the entire semester.
- h. Information about extra-curricular activities and co- curricular activities.
- i. Days of national importance.

1. Academic calendar schedule is prepared in the beginning of each semester with the help of academic committee.
2. All the department are adhered to strictly follow as per the academic calendar
3. Three Internal Assessment Test are conducted as per the academic calendar.
4. All the technical club activities in the departments are also indicated in the academic calendar.
5. Prior notification to the students about academic calendar.
6. Academic Calendar of the year is attached.

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 web link)

The Program outcomes, program specific outcomes and Course outcomes of the Department are posted in the Institution's Web Portal: <http://www.srmvalliammai.ac.in>

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage

103	CIVIL	162	128	79.01
413	ME S.E	18	18	100
104	CSC	88	79	89.77
106	ECE	148	121	81.76
403	M.E.C.S	3	3	100
105	EEE	116	90	77.58
411	M.E.PSE	2	2	100
107	EIE	84	64	76
205	IT	102	95	93.13
114	MECHANICAL	172	128	74.41
631	MBA	82	67	81.70
621	MCA	31	31	100

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)

Assessment is based on student feedback collection, analysis and corrective action taken.

Feedbacks from students on campus infrastructure facilities are obtained regularly through College web portal/ Facebook/ Suggestion box / email. Based on the feedback, if there are any drawbacks identified, it will be rectified. The action taken report will be displayed in the public domain. 'Complaints and suggestion register' are available at different places such as Library, Hostel etc. for easy access of students.

Corrective Actions:

- Feedback of the students on faculty members and infrastructure facilities are analyzed and actions are taken immediately to rectify it.
- Extra Facilities like Wifi Zone, Internet Lab, Silent Study Hall are given for the benefit of students.

Analysis:

- We collect the forms regularly and drawback of students are collected and rectified

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 Academic year
Major projects	5 years	DST-FIST	38,00,000	29,02,726
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	-	-	-	-
Projects sponsored by the University/ College	6 months	SRMVEC	25000	2018 -2019
Students Research Projects (other than compulsory by the College)	3 months	TNSCST	75500	2018-2019

International Projects	1 year	KOREAN RESEARCH BRAIN POOL FUND	30,00,000	2018-19
Any other(Specify)	-	DST-NIMAT	1,60,000	2018-2019
Total			10,05,000	

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(s)
“Guidelines For Patent Drafting and IPR in E&IT Sector”	CSC	28-12-17
Drafting for patent filing	CSC	28-12-2018
Intelligent management of electrical systems in industries	EEE	13.07.2018
Patentability in Engineering Applications	EEE	21.8.2018
Real time analysis and implementation of fortes in high power automation system using TANGEDCO	EEE	07.09.2018
Power System Protection and communication	EEE	10.01.19
Recent Trends In Electric Drives	EEE	06.02.19
A brief insight into the job opportunities in the sector	EEE	26.02.19
Energy Conservation and issues cleaner ENVIRONMENT	EEE	13.3.19
Faculty Development Programme on “Digital and RF Communication	ECE	18.05.2019 to 14.05.2019
Project Expo 2k19	ECE	20.03.2019
Expert Lecture on Emerging Trends in Telecom Industry	ECE	27.02.2019
Workshop on Advanced VLSI design Tools	ECE	13.03.2019
Expert Lecture on SMART CITIES AND 5G	ECE	06/02/2019
Motivational Talk Seminar for II Year ECE Students	ECE	10/12/2018
Faculty Development Programme on Integrated Circuits For Communication Engineering	ECE	12/11/2018-17/11/2018)
Skill Development Programme on MAINTAINENCE OF THE LABORATORY EQUIPMENTS: A PRACTICAL APPROACH	ECE	14.11.2018

Tech talk on Cooperative Spatial Modulation For Cellular Networks	ECE	04.10.2018
National Level Technical Symposium TARAS-2k18	ECE	29.09.2018
Mini Project Expo 2k18	ECE	19.9.2018
Entrepreneurship Awareness Camp	ECE	17.09.2018-19.09.2018
Expert Lecture on Importance Of EMI In Electronic System Design	ECE	-07.09.2018
Tech Talk on SPECTRUM ENERGY EFFICIENCY TRADE OFF IN 5G NETWORKS	ECE	04.09.2018
Value Added Course on REAL TIME TRAINING IN ARM CORTEX M0+LPC 812	ECE	(11.08.2018-25.08.2018)
Work Shop on “MACHINE LEARNING AND IoT”	ECE	20.08.2018
Tech Talk on RESEARCH ON HUMAN BRAIN PROJECT	ECE	10.08.2018
Tech Talk on ANTENNA TECHNOLOGIES FOR THE FUTURE KNOWLEDGE SHARING SEMINAR	ECE	30.07.2018
Guest Lecture on REALITY OF ENGINEERING AND DSP	ECE	25.07.2018
Seminar on OPPORTUNITIES IN CIVIL SERVICES FOR ENGINEERS	ECE	18.07.2018
Tech Talk on EFFECTIVE LEARNING AND TEACHING	ECE	16.07.2018

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

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Longest Continuous SBC Awards	Dr. M. Senthilkumar	CSI	20.01.18	Teachers
Parasiriya Rathna	Mr. K. Shanmugam	Kaviarasar Kalai Tamil Sangam	30.09.18	Teachers
Longest Continuous SBC Awards	Dr. M. Senthilkumar	CSI	20.01.18	Teachers
Parasiriya Rathna	Mr. K. Shanmugam	Kaviarasar Kalai Tamil Sangam	30.09.18	Teachers
Real Time Video Surveillance Architecture for	Dr N.Usha Bhanu.	Institute of Scholars	May 2019	Student Project Programme 2019(SPP)

Secured city Automation				
VLSI realisation of multipliers for Signal processing applications	C. Saravanakumar	Institute of Scholars	May 2019	Student Project Programme 2019(SPP)
IOT controlled lake cleaner	V.Jayasuriya, III-EIE-1	Galaxy Education consultancy at Alliance France in Chennai in association with centralile university France	19 th to 20 th NOVEMBER 2018	BEST INNOVATOR OF THE YEAR

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

Incubation Centre	Name	Sponsored by
Support for Entrepreneurial & Managerial Development of SMEs through Incubators	MSME	MSME- Rs.60,00,000

Name of the Start-up	Nature of Start-up	Date of commencement
NIL		

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

State	National	International	Institution
	-	-	38

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

Name of the Department	No. of Ph. Ds Awarded
CSC	1
ECE	2
IT	2

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

	Department	No. of Publication	Average Impact Factor, if any
International	CIVIL	20	3.7
International	CSC	24	-
National	MBA	1	6.1
International	MBA	32	7.185
International	EEE	35	1
International	EIE	29	1.045

International	ECE	46	0.5
International	IT	3	-
International	MECH	7	2.2
International	MCA	2	1.5
International	Mathematics	6	4.0
International	English	5	4.83

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

Department	No. of publication
CIVIL	1
CSC	2
EEE	1
MBA	1
EIE	1
ECE	9
MECH	1
IT	4
MCA	1
Mathematics	4
ENGLISH	1

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

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Design and optimization of photonic crystal based eight channel dense wavelength division multiplexing demultiplexer using conjugate radiant neural	Dr.M.Murugan	Optical and Quantum Electronics	2017	5	Valliammai Engineering College	5

network						
Enhanced Brain Image Retrieval using Carrier Frequency Offset Compensated Orthogonal Frequency Division Multiplexing for Telemedicine Applications	Dr.S.Ramesh	International Journal of Imaging Systems and Technology	2018	1	Valliammai Engineering College	1
The Future of Nanotechnology in Structures	Pragadeeshwaran. B Sattainathan Sharma.A	IJESC - International Journal of Engineering Science and Computing	April 2019	1	Valliammai Engineering College	1
A Study on Mechanical and Durability Performances of Nano Modified Concrete	Pragadeeshwaran. B Sattainathan Sharma.A	IJESC - International Journal of Engineering Science and Computing	April 2019	1	Valliammai Engineering College	1
Experimental Investigation on the Flexural Behaviour of Cold Formed Corrugated Steel Channel Sections	Sureshbabu S, Senthiselvan S	IJITEE - International Journal of Innovative Technology and Exploring Engineering	April 2019	1	Valliammai Engineering College	1
Performance Evaluation on Compressive Behaviour of Contrary Cold Formed Steel Sections	Praveen Kumar S, Suresh Babu S	IJITEE - International Journal of Innovative Technology and Exploring Engineering	June, 2019	1	Valliammai Engineering College	1
Analytical Study of Vehicle Assembly Building (VAB) for Space Propulsion Systems	K.Varsha, S. Vasanth Kumar, R.Vignesh, A. Sattainathan Sharma	IJESC - International Journal of Engineering Science and Computing	May 2019	1	Valliammai Engineering College	1

Performance evaluation of Post tensioned Concrete beams with Bonded system	Shanmathi Sridhar, A. Leema Rose	IJITEE - International Journal of Innovative Technology and Exploring Engineering	May 2019	1	Valliammai Engineering College	1
Influence of Nano Silica as Additive in Concrete	Pragadeeshwaran. B Sattainathan Sharma.A	IJITEE - International Journal of Innovative Technology and Exploring Engineering	June 2019	1	Valliammai Engineering College	1
Experimental Study on Compressive Behaviour of Cold Formed Steel Sections With and Without Bent Lips	Praveen Kumar S, Suresh Babu S, SenthilSelvan S	IJITEE - International Journal of Innovative Technology and Exploring Engineering	June, 2019,	1	Valliammai Engineering College	1
Experimental Study on use of Cold Formed Steel Sections as Truss Members	Padmanaban R, Suresh babu S	IJITEE - International Journal of Innovative Technology and Exploring Engineering	April 2019	1	Valliammai Engineering College	1
Dynamic analysis and design of jacket towers in offshore structures	Sadhana, Shoban Prabhu, Solomon Sachin Samson , Supriya, Sattainathan Sharma.A	IJGET - International Journal of General Engineering and Technology	June 2019	1	Valliammai Engineering College	1
CCTV Surveillance System, attacks and design goals	Dr. B. Muthusenthil	International Journal of Electrical and Computer Engineering(scopus 2018)	2018	2	Valliammai Engineering college	22
Performance analysis of Various link estimation time methods in Vehicular ad hoc network	Dr.L.Karthik eyan	Electronic Government, An International journal	2018	2	Valliammai Engineering college	10

Online action recognition from RGB-D cameras based on reduced basis decomposition	Arunraj, M., Srinivasan, A., Vimala Juliet, A.	Journal of Real-Time Image Processing	2018	1	Valliammai Engineering College	1
Bit Error Rate Minimization Using SIm Technique In TFT-OFDM For Mobile Large-Scale MIMO Systems	Dr. R. Meenakshi	International Journal Of Biomedical Engineering And Technology Scopus	2018	2	Valliammai Engineering College	2
Fusion Imaging In Pixel Level Image Processing Technique – A Literature Review	K. Elaiyaraja	International journal of engineering & technology Scopus	July 2018	2	Valliammai Engineering College	1
A Privacy Preserving Mechanism For Integrity Auditiing And Data Sharing	R.Sankara Narayanan	International Journal Of Science And Research (Ijsr) Indian Citation index	March 2019	1	Valliammai Engineering College	1
1. Machinability Studies of TiAlN-/AlCrN-Coated and Uncoated Tungsten Carbide Tools on Turning EN25 Alloy Steel	Dr. K. Sivakumar	Springer, Singapore	2019	-	Valliammai Engineering College	-
Metallurgical and mechanical characterization of TiCN / TiAlN and TiAlN/ TiCN bilayer nitride coatings	Dr. K. Sivakumar	Surface and Interfaces, Elsevier	2019	--	Valliammai Engineering College	-
Computational Investigations in Rectangular Convergent and Divergent Ribbed Channels	Dr.K. Sivakumar	International Journal of Turbo & Jet Engines, De Gruyter	2018	--	Valliammai Engineering College	-
Effect of process parameters on mechanical properties of	G.Anbuezhaiyan	Archives of Civil and Mechanical Engineering 18 (4), 1645-1650	2018	7	Valliammai Engineering College	7

hollow glass microsphere reinforced magnesium alloy syntactic foams under vacuum die casting						
Effects of silicon carbide and tungsten carbide in Aluminium metal matrix composites	G.Anbuezh iyan	Springer Netherlands	2019	5	Valliammai Engineering College	5
Effect of B4C and MOS2 reinforcement on micro structure and wear properties of aluminum hybrid composite for automotive applications	G.Anbuezh iyan	Elsevier	2019	-	Valliammai Engineering College	-
Synthesis and Characterization of Nano-Glass Particles Reinforced AZ91D Magnesium Alloy Composites	G.Anbuezh iyan	Springer, Singapore	2019	--	Valliammai Engineering College	-
Solving FFLSE for Octagonal Fuzzy Matrices	Dr. V. Vijayalaksh mi	International Journal of pure and applied Mathematics	2018	1	Valliammai Engineering College	1
New ranking function on Octogonal fuzzy number for solving fuzzy transportation problem	Ms. A. Karpagam	International Journal of pure and applied Mathematics	2018	1	Valliammai Engineering College	1
Enhancement of speaking skills and abstract its importance for engineering	Abhishek David John	IMPACT: International Journal of Research in Humanities, Arts and Literature(IMPACT: IJRHAL)	2018	-	Valliammai Engineering College	-

students.						
Newspaper: A Prospective tool for English Language learning.	Abhishek David John	IMPACT: International Journal of Research in Humanities, Arts and Literature(IMPACT: IJRHAL)	2018	-	Valliammai Engineering College	-
A critical study of Indian middle class women by Manju Kapurs Home.	Abhishek David John / M. Arthi	IMPACT: International Journal of Research in Humanities, Arts and Literature(IMPACT: IJRHAL)	2018	-	Valliammai Engineering College	-
Information Communication Technology(ICT) in English Language teaching (ELT).	Abhishek David John	IMPACT: International Journal of Research in Humanities, Arts and Literature(IMPACT: IJRHAL)	2018	-	Valliammai Engineering College	-
Design and development of novel flexible bismaleimide toughened multi-walled carbon Nanotube reinforced epoxy nanocomposites	M. Soundarrajan L. Devaraj Stephen S.G. Gunasekaran	Rasayan Journal of Chemistry	2019	Scopus	Valliammai Engineering College	-
Thermal Reduction of $\text{Co}^{\text{III}}(\text{pn})_2\text{Cl}(\text{L})^{2+}$ - Fe(II) Ions in Aqueous-Organic Solvent Medium via Outer-Sphere Electron Transfer Approach	L.Devaraj Stephen, S.G. Gunasekaran G. Nalini M. Soundarrajan	Asian Journal of Chemistry	2019	Scopus	Valliammai Engineering College	-
Microwave assisted synthesis, characterization and photo-catalytic study of Cu/ZnO nanocomposite	Vaishali Prasad G. Gnanamani Simiyon Ansha Elizabeth Mammen	Rasayan Journal of Chemistry	2019	Scopus	Valliammai Engineering College	-

	N. Jayaprakash					
3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Design and optimization of photonic crystal based eight channel dense wavelength division multiplexing demultiplexer using conjugate radiant neural network	Dr.M.Murugan	Optical and Quantum Electronics	2017	6	5	Valliammai Engineering College
Enhanced Brain Image Retrieval using Carrier Frequency Offset Compensated Orthogonal Frequency Division Multiplexing for Telemedicine Applications	Dr.S.Ramesh	International Journal of Imaging Systems and Technology	2018	5	1	Valliammai Engineering College
Bit Error Rate Minimization Using SLM Technique In Tft-Ofdm For Mobile Large-Scale Mimo Systems	Dr. R. Meenakshi	International Journal Of Biomedical Engineering And Technology Scopus	July 2018	1	1	Valliammai Engineering College
Fusion Imaging In Pixel Level Image Processing Technique – A Literature Review	K. Elaiyaraja	International journal of engineering & technology Scopus	July 2018	-	-	Valliammai Engineering College
Design and development of novel flexible bismaleimide toughened multi-walled carbon Nanotube reinforced epoxy nanocomposites	M. Soundarrajan L. Devaraj Stephen S.G. Gunasekaran	Rasayan Journal of Chemistry	2019	-	-	SCOPUS
Thermal Reduction of $\text{Co}^{\text{III}}(\text{pn})_2\text{Cl}(\text{L})^{2+}$ - Fe(II) Ions in	L.Devaraj Stephen, S.G. Gunasekaran	Asian Journal of Chemistry	2019	-	-	SCOPUS

Aqueous-Organic Solvent Medium via Outer-Sphere Electron Transfer Approach	G. Nalini M. Soundarrajan					
Microwave assisted synthesis, characterization and photo-catalytic study of Cu/ZnO nanocomposite	Vaishali Prasad G. Gnanamani Simiyon Ansha Elizabeth Mammen N. Jayaprakash	Rasayan Journal of Chemistry	2019	-	-	SCOPUS

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

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	2	16	24	82
Presented papers	46	19	1	6
Resource Persons	1	-	-	21

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 co-ordinated such activities	Number of students participated in such activities
Stress Management and Stationary Drive	NSS	2	15
Disaster Management	NSS	4	35
Swachh Bharat Summer Internship Programme	NSS	5	15
International Yoga Day	NSS	4	10
Kerala Relief Efforts	NSS	3	30
Fresher's Orientation	NSS	5	35
Helmet Awareness and Road Safety Drive	NSS	5	15
Tree Plantation	NSS	3	22
Anna University Level NSS Awards Function	NSS	3	20
Youth Awakening Day	NSS	5	15
Personality Development Camp	NSS	5	10
Rashtriya Ekta Diwas & Vigilance Awareness Week	NSS	5	10
GAJA Cyclone Relief and Rescue Team	NSS	3	20

Distribution of Nilavembu Kudineer	NSS	2	25
Bhathiyar's Birthday	NSS	3	10
Voter's Day	NSS	2	30
Republic Day	NSS	5	20
Blood Donation Camp	NSS	3	25
Plastic Eradication Awareness Camp (Kattankulathur)	NSS	5	22
Plastic Eradication Awareness Camp (Velachery)	NSS	4	30
NSS Special Camp	NSS	3	15
Oral Competition on Youth Potential	YRC	2	25
Campaign on Tobacco Menace	YRC	3	22
Poster competition on Water Saving	YRC	2	30
Go Green Campaign	YRC	5	12
Competitions- Creativity & Motivation	SRM Valliammai Engg College/ Anadhavalli Matric.Hr.Sec School, Urapakkam	05	50
UBA SURVEY	NSS	01	01

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	No. of Students benefited
NSS	Best NSS unit award	NSS, ANNA UNIVERSITY	-
Swach Bharat Abhiyaan	Letter of Appreciation	Block Development Officer(Village Panchayat) Kattankulathur	2
Unnat Bharat Abhiyaan	Letter of Appreciation	Block Development Officer(Village Panchayat) Kattankulathur	2
Solid Waste Management	Letter of Appreciation	Block Development Officer(Village Panchayat) Kattankulathur	2

Open Defacation Free	Letter of Appreciation	Block Development Officer(Village Panchayat)Kattankulathur	2
Ground Water Recharging	Letter of Appreciation	Mr. Maragatham Kumaravel AIADMK Member of Parliament (Letter Of Appreciation)	2
Rectification of faults in the equipments and Premises of The Government Hospital	Letter of Appreciation	Block Development Officer(Village Panchayat) Kattankulathur	2
Tree Saplings planted at SRM Valliammai Engineering College	Letter of Appreciation	Block Development Officer(Village Panchayat) Kattankulathur	2

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 coordinated such activities	Number of students participated in such activities
Swach Bharath Summer Internship Programme	NSS/VEC	Cleaning roads and Garbage	1	2
International Yoga day	NSS/VEC	Students and Staff Members participation in Yoga	20	2
Tree Plantation	NSS/VEC	Plants saplings planted in SRM VEC	1	5
Rashtriya Ekta Diwas	NSS/VEC	Commemoration Of Sardar Vallabh Bhai Patel role in integrating India	1	2
Gaja Cyclone	NSS/VEC	Distribution of	1	2

Relief		essential food supplies to affected people.		
Plastic Eradication Awareness Camp	NSS/VEC	Removing the plastics and throwing it in dustbin	1	2

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
Faculty Exchange by SakRobotix Lab Pvt. Ltd. StartUp Centre ,IIT Bhubaneswar ,Samantapuri, Gajapati Nagar, Bhubaneswar, Odisha 751013	63 students and 3 faculties	-	10.08.2018 to 12.08.2018
	66 students and 3 faculties	-	05.01.2019 and 06.01.2019
Entrepreneurship development cell of VEC	53 students	Rs.34,450/-	08.02.2019

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-To)	Participant
Internship	Internship	Infogro Technologies	03.12.18 To 7.12.18	J.Mashiya Vinifred
Internship	Internship	Ashok Leyland	19.06.18 To 23.06.18	S.Sri Durga
Internship	Internship	Global Techno Solutions	01.12.2018To15.12.2018	S.Mridhula
Internship	Internship	Global Techno Solutions	01.12.2018 To 15.12.2018	A.Sharath
Internship	Internship	BSNL	01.06.18	S.Mridhula
internship	Internship	Talento Academy	29.11.18 To 01.12.2018	K/Jayashri

internship	Internship	Oretech Solutions Pvt Ltd	23.11.18 To 25.11.2018	M S Indhuja
internship	Internship	Oretech Solutions Pvt Ltd	23.11.18 To 25.11.2018	A.Jai Ganesh
internship	Internship	Oretech Solutions Pvt Ltd	23.11.18 To 25.11.2018	S.Nandhini
Project work	Joint Proposal in the topic “Intelligent solid waste segregator” to DST	RLT Instruments No.2, Rangarajapuram 1st Street, Kodambakkam. Chennai - 600024. +91-044-2480 6500 chennaiho@rltinst.com www.rltgroups.in Factory Address: No.2, Factory Road, Athur, Chengalpet - 603 101.	15.02.2018 to tilldate	--
Project work	Joint Proposal in the topic “Smart phone coupled IMU wrist watch for real-time human activity monitoring”	Brianna R&D Labs Pvt Ltd. A S Towers 22, Kamarajar High Road, New Perungalathur, Chennai-600063, Tamilnadu, India. info@briannalab.com http://briannalab.com	13.02.2018	
	Joint Proposal in the topic “Development of artificial pancreas using 3D printing”		14.04.2018	
Sharing of research facilities	Machine Learning	Simple Labs (IIT Madras Research Park)	17.11.2018 to 19.11.2018	Ms.S.R.Preethi, A.P (O.G)
Seminar	Network Simulator	Mr.P.Raja, Senior Project Engineer, Pantech Pro Ed Pvt. Ltd, Chennai	24.07.18	105
Guest Lecture	Data Structures and its applications	Mr.Hariharan Vijayakumar, Senior Analyst, Latent View Analytics, Chennai.	06.08.18	95

Symposium	XploITs2K18 & Colosium'18'	Mr.Arul Rajkumar, Vice President – IT Operations, Ford India Pvt. Ltd, Chennai	22.09.18	45
Motivational Talk	Motivational Talk	Prof. M.J.Prasad, Multilingual Motivational Mentor, Chennai	10.12.18	84
Guest Lecture	XML Databases	Mr.R.Ramprakash, Member Leadership Staff-Machine Learning & Analysis, Zoho Corporation, Chennai.	09.01.19	87
Guest Lecture	Web Services and its Applications	Mr. Sennavazhagan Elango, Software Developer, QAssure Technologies Pvt. Ltd., Chennai	04.02.19	106
National Seminar	Recent Trends in Internet of Things	Mr. Arnachalam Jayaraman, Senior Director, Application & Digital Platform Engineering, Virtusa Consulting Mr. Ramprakash Ramamoorthy Team Leader, Zoho Corporation Mr. Sandeep Rathinam HCL Technologies, Chennai	16.02.19	Internal : 79 External : 29
Motivational Talk	Motivational Talk	Dr. Ushaa Eswaran, Member of Planning Board – Thiruvalluvar University	17.06.19	74
Motivational Talk	Motivational Talk	Prof. M.J.Prasad, Multilingual Motivational Mentor, Chennai	18.06.19	52

MODROB- The Department of EIE has been sanctioned with an amount of Rs.19,25, 000 under AICTE MODROB Scheme for Fieldbus and DCS workstation.

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 and Activities	Number of students/teachers participated under MoUs
1. Madras Engineering Industries Pvt Ltd	02/08/19	Skill and Knowledge enhancement	25
12.02.2019	Purpose:	1.The Language	12.02.2019

	<p>For Conducting Workshop, Seminar, Industrial Training and Research Collaboration process</p> <p>Activities:</p> <p>1. Language Technology Workshop was conducted</p> <p>2. One day Industrial training on “Machine Learning” for the staff members of CoE-DAML at Freezon Labs (associate company of Clustrex Data Pvt Ltd) Madipakkam Chennai on 20/07/2019.</p>	<p>Technology Workshop Programme had a total of 45 CSE department students were benefitted.</p> <p>2. Seven staff members were benefitted by Industrial Training on Machine learning</p>	
I.	<p>Vi micro systems Plot no.: 75, Electronics Estate, Chennai-600 096.</p> <p>https://www.vimicrosystems.com</p> <p>sales@vimicrosystems.com</p> <p>Phone: +91-4424961842, 24961852</p>	From 26.06.2014 to till date	All the students and teachers in the department. 320 nos in total
II.	<p>Best Mach No.2/4, J.S Tower, G-4, Block-A, Avvaiyar Street, Meenampakkam, Chennai-600 027.</p> <p>https://www.bestmach.in/</p> <p>08042780260</p> <p>TEL/ Fax: 044-22561686</p>	From 24.07.2014 to till date	All the students and teachers in the department. 320 nos in total
III.	<p>RLT Instruments No.2, Rangarajapuram 1st Street, Kodambakkam. Chennai - 600024.</p> <p>chennaiho@rltinst.c</p>	24.07.2014 to till date	All the students and teachers in the department. 320 nos in total

	<p>om www.rltgroups.in +91-044-2480 6500 Factory Address: No.2, Factory Road, Athur, Chengalpet - 603 101.</p>		
IV.	<p>Brianna R&D Labs Pvt Ltd. A S Towers 22, Kamarajar High Road, New Perungalathur, Chennai-600063, Tamilnadu, India. info@briannalab.co m http://briannalab.co m</p>	13.02.2018 to till date	All the students and teachers in the department. 320 nos in total
V.	<p>NestLives Pvt. Ltd., Ground Floor, 17- 1B, Cee Dee Yes Apartment, Chennai PattinamAmmapetta i Village, Nellikuppam, Thiruporur, Kanchipuram- 603108 www.nestlives.com reach@nestlives.co m 044-47455133</p>	14.04.2018 to till date	All the students and teachers in the department. 320 nos in total
VI.	<p>SakRobotix Lab Pvt. Ltd. StartUp Centre ,IIT Bhubaneswar ,Samantapuri, Gajapati Nagar, Bhubaneswar, Odisha 751013 http://www.sakrobot ix.com/ support@sakrobotix. com 081143 47999</p>	12.06.2018 to till date	All the students and teachers in the department. 320 nos in total
SANDS Pvt., Ltd.,	27.06.2018	Guest Lecture Internship Projects	2018 - 2019 Students 50 Teachers 25

		Training Industrial Visit				
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				
Rs.1,53,28,573		Rs.70,20,248				
4.1.2 Details of augmentation in infrastructure facilities during the year						
Facilities		Existing	Newly added			
Campus area						
Class rooms (sq.m)		970.4				
Laboratories (sq.m)		894				
Seminar Halls (sq.m)		132.67				
Classrooms with LCD facilities		11				
Classrooms with Wi-Fi/ LAN		11				
Seminar halls with ICT facilities		1				
Video Centre		1				
No. of important equipments purchased (\geq 1-0 lakh) during the current year.		-				
Value of the equipment purchased during the year (Rs. in Lakhs)		149708				
Others						
4.2 Library as a Learning Resource						
4.2.1 Library is automated {Integrated Library Management System -ILMS }						
Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation			
NEWGENLIB	FULLY	3.1.1	2007			
4.2.1 Library Services:						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	42910	13613381	718	267009	43628	13880390
Reference Books	5195	1738134	89	42275	5284	1780409
e-Books	-	-	-	-	-	-
Journals	172	489330	191	548569	363	1037899
e-Journals	9446	2209070	12518	1209403	21964	3418473

Digital Database	Library books are computerized with newgenlib software					
CD & Video	2886	-	52	-	2938	-
Library automation	-	-	-	-	-	-
Weeding (Hard & Soft)	-	-	103	28325	-	-
Others (specify)	-	-	-	-	-	-

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	1329	1139	100 %	14	34	16	98	70 Mbps	28
Added							16	130 Mbps	
Total	1329	1139	100 %	14	34	16	114	200 Mbps	28

4.3.2 Bandwidth available of internet connection in the Institution (Leased line): TATA Communication Pvt. Ltd (ILL)

200 Mbps

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
Recorder available at Principal office with following specification Canon EOS 750D 24.2MP Digital SLR Camera (Black) <ul style="list-style-type: none"> • 24.2 megapixel • CMOS image sensor • DIGIC 6 image processor • TFT colour liquid-crystal monitor • 7 levels of manual brightness adjustment • ISO sensitivity: Auto ISO 100 - ISO 6400 • 19 cross-type AF points for focusing, f/2.8 at centre (except with the EF28-80mm f/2.8-4L USM and EF50mm f/2.5 compact macro) • WiFi and NFC supported • Rechargeable lithium-ion battery LP-E17 with 1040mAh capacity 	https://www.youtube.com/channel/UCsXSZ13sXTiNqlxA9GXTsw

4.3.4 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
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Dr. B. Muthusenthil	Spanning Tree in Graph Theory and Application	YouTube Channel https://www.youtube.com/watch?v=N3S71g6XRRU	Jul 27, 2019
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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 Rs.	Expenditure incurred on maintenance of academic facilities Rs.	Assigned budget on physical facilities Rs.	Expenditure incurred on maintenance of physical facilities Rs.
Rs. 3,60,500	Rs. 2,38,324	Rs. 39,64,440	Rs. 4,54,601

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)

The college ensures optimal allocation and utilization of the available financial resources for maintenance and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose and using the grants received the college as per the requirements in the interest of students

Laboratory- Record of maintenance account is maintained by lab technicians and supervised by HODs of the concerned departments.

Other measures to maintain laboratories are as follows:

- The calibration, repairing and maintenance of sophisticated lab equipment are done by the technicians of related owner enterprises.
- The microscopes used for biological and geological experiments are annually cleaned and maintained by the concerned departments and record of maintenance is maintained by lab technicians and supervised by HODs of the concerned departments.

• There is systematic disposal of waste of all types such as bio-degradable chemical/chemical and e-waste.

Library- The requirement and list of books is taken from the concerned departments and HoDs are involved in the process. The finalized list of required books is duly approved and signed by the Principal.

- The Library has special facility for visually challenged students by setting up two special computers for them.

• Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment.

- To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exam.
- The proper account of visitors (students and staff) on daily basis is maintained.

• Other issues such as weeding out of old titles, schedule of issue/ return of books etc are chalked out / resolved by the library committee.

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	Management concession	122	8846250
	Sports quota	7	3670500
	Gaja Cyclone	2	Rs. 82500
	Staff members	15	12,93,000

	Ward Scholarship		
Financial support from other sources			
a) National	Govt Scholarship	984	7717725
	MBC Scholarship	455	3240915
	SC/ST Scholarship	176	1203200
	National Scholarship Scheme	01	25,000
	PostMatric Scholarship	170	11,20,825
	First Graduate Scholarship	97	15,50,000
b) International		-	-

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 implementation	Number of students enrolled	Agencies involved
Bridge Course	25.06.2018-29.6.2018 (2018-2019(odd))	153	Department Faculty Members
Bridge Course	10.12.2018-14.12.2018 (2018-2019(even))	153	Department Faculty Members
Motivation Class	29.06.2018 /FN	153	Dr. S. Virapan Professor Eswari Engineering College
Awareness Seminar on Organ Donation	18.1.2018	09	SRMVEC
International Day	21.6.2018	01	Mr.T.Arun Prasanna, Director Of Physical Education, SRMVEC
Carrier Opportunities in Civil Service Examination	09.08.2018	10	SRMVEC
Health Fitness Within Our Reach	27.12.2018	02	Prof N.Lakshmana Perumal, Professor & Head, SRMVEC
Motivational, Wellness and Health Awareness –Rubella Program For Women	26.2.2019	08	Dr. Sripriya Prakasam, Gynaecologist, Venkateswara Hospitals, Trichy. Ms.Archana Dev- Motivational Speaker

Bridge Courses	18/12/2018	195	SRM VEC
Bridge Courses	24/06/2019	195	SRM VEC
Soft skill development	25.08.18 & 26.08.18	93	Pro Whiz
Bridge course for IV Semester students	10.12.18	109	
Bridge course for III Semester students	17.06.18	87	
Bridge course for V Semester students	17.06.18	106	
Value Added Courses	03/08/2019	72	SRM VEC
Value Added Courses	11/02/2019	34	SRM VEC
Remedial Coaching	03/08/2019	50	SRM VEC
Remedial Coaching	11/02/2019	55	SRM VEC
Mentoring	Every Month	195	SRM VEC
Mentoring	01/07/2018	498	SRM VEC
Soft Skill Development	15/08/2018	69	Accenture
Soft Skill Development	03/09/2018	69	FACE
Pre Onboarding Learning Program	07/05/2019	69	Knowledge Management Team of Accenture
Summer Training Programme	17/05/2019	69	FACE & ProWhiz
Yoga	21/06/2019	30	SRM VEC
Motivational, Wellness and health awareness-Rubella program for women	26/02/2019	12	1. Dr.SRI PRIYA PRAHASAM, GYNAECOLOGIST, VENKATESHWARA HOSPITAL, TRICHY 2.Ms.ARCHANA DEV, MOTIVATIONAL SPEAKER-GUIDANCE FOR EXAMINATION AND PERSONALITY MANAGEMENT FOR STUDIES FROM CAMPUS TO CORPORATES.
Health fitness within our range	27/12/2018	FACULTY PROGRAM (1 FROM EEE)	1.Prof. N. LAKSHMANA PERUMAL, Professor and Head, First Year Chief Coordinator, DEPARTMENT OF ENGLISH, SRM VALLIAMMAI ENGINEERING COLLEGE
YOGA DEMONSTRATION – INTERNATIONAL YOGA DAY	21.06.2018	10	VAALGA VAZHAMUDAN
OPPORTUNITIES IN CIVIL SERVICE EXAMINATION	09.08.2018	23	UPSC AND TNPSC
MOTIVATIONAL ,WELNESS AND HEALTH	26.02.2019	7	VENKATESHWARA HOSPITAL,TRICHY

AWARNESSE-RUBELLA PROGRAM FOR WOMEN			
Remedial coaching	<ul style="list-style-type: none"> ➤ Remedial classes for weak students are regularly conducted. ➤ Special attention is given for weak students and utmost care is given to make the students clear about the concepts. ➤ Students are explained with the concepts and made to write test and are evaluated. 		
Mentoring	Three Students counsellors are available in the college. The students are at liberty to approach any of them for help and guidance. It is found that the mentoring system in the College is very effective for the development of the students.		

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 by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018	Career Counselling	100	100	Nil	NIL
2018	GATE	43			
2018-19	--	--	93	--	66

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	No. of grievances redressed	Average number of days for grievance redressal
3	3	7

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Accenture	447	231	TCS	360	8
Wipro	458	17	L & T Inotech	144	3

Newgen	31	1	Infosys	37	3
Cognizant	57	22	NTT DATA	69	6
Valued Epistemics (Greedge)	234	1	Robert Bosch	15	2
Sutherland (Voice)	120	18	Maestro Steel Detailing Pvt Ltd.	22	6
Sutherland (Non-Voice)	120	6	Tata Motors	15	4
			NETAXIS IT Solutions	15	1
			Odyssey Technologies	25	1
			Zuari Cements	10	1
			Indian Hume Pipe	18	2
			Mahindra & Mahindra	5	1
			Edureka	6	1
			Heat And Control	15	1

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-2019	10	Civil Engineering	Civil Engineering	Anna University	M.E - Structural Engineering &

					Construction Management
2017-2018	1	COMPUTER SCIENCE AND ENGINEERING	COMPUTER SCIENCE AND ENGINEERING	STATE UNIVERSITY OF NEWYORK	MS
2018-19	02	BE	EEE	AnnaUniversity, Chennai.	M.E (HVE)
2018-19	02	BE	EEE	Madras School of Economics, Chennai.	PGDM
2018-19	2	2018	C&I	ANNA UNIVERSITY	PG
2018-19	1	2018	MS Program	RMIT UNIVERSITY	PG
2018-19	1	2018	MBA	MADRAS UNIVERSITY	PG
2018-19	1	2018	MBA	LIBA,CHENNAI	PG
2019	02	ECE	ECE	Colorado State University	(M.S.)Electrical Engineering
2018-19	2	Engineering	IT	SRMIST, Bharath IST	MBA
2019	1	B.E	Mechanical	University of Newyork, Binghamton	Industrial Engineering

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	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	-	-
SET	-	-
SLET	-	-
GATE	1	CE19S77068039
GMAT	-	-
CAT	-	-
GRE	2	412815106089 412815106127
TOFEL	-	-
Civil Services	-	-
State Government Services	-	-
Any Other	6 / TANCET	11343155
		SUSHANTH KANNAN-

		218669211 A.KARTHIKEYAN- 2018609034 DIVYABHARATHI.C 2018609029
	1/IELTS	412815106127

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

Activity	Level	Participants
Cultural activity- SRM VEC Youtube Channel Vallinam	Institution Level	7
Cultural Programme / Co-curricular	Institution Level	64
Mime	Institution Level	22
Group Dance Performance	Institution Level	15
Department Innovation	Institution Level	3
Adapt Tune	Institution Level	1
Sports	Institution Level	35
Sports	ZONAL Level	18
Kaannave Vanthen-2018, Valliammai engineering college.	Katturai potti & Solvillyattu	16

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/Dept	Name of the award/medal	National/International	Sports	Cultural	Student ID number	Name of the student
2018-2019 CIVIL	FIRST PLACE	ZONAL LEVEL	ATHLETICS (400M)	NIL	-	JEEVITHA.K
	SECOND PLACE	ZONAL LEVEL	ATHLETICS (4*100M RELAY)	NIL	-	JEEVITHA.K
	SECOND PLACE	ZONAL LEVEL	ATHLETICS (800M)	NIL	-	JEEVITHA.K
	SECOND PLACE	INTERNATIONAL	ATHLETICS (800M)	NIL	-	JEEVITHA.K
2018 MBA	Anna university zonal athletic meet	National	Yes	NIL	412817631004	R.Abinaya
	Anti Ragging for UGC-National film competition	“Acchani” film It is been acknowledged in July 2018	NIL	Yes	4128176310 412817631 412817631 412817631	Karthik kumar Keerthi.A Lavanya Sarath Babu

	Anna university zonal athletic meet	National	Yes	NIL	412817631004	R.Abinaya
	Anti Ragging for UGC-National film competition	“Acchani” film It is been acknowledged in July 2018	NIL	Yes	4128176310 412817631 412817631 412817631	Karthik kumar Keerthi.A Lavanya Sarath Babu
2018 CSC	Runner UP	National	TN Cycle POLO	Battle of Bands	412816104063	MUTHU SELVAM.M
	Excellent performance	National		Bharath anathiyam	412816104068	NIKITHA.V
	Runner	National	BALL BADMITON		412816104083	RASHMI.V
	Winner	National	BALL BADMITON		412816104083	RASHMI.V
	Runner	National	ATHELETICs		412816104083	RASHMI.V
	Winner	National	ATHELETICS-5000 mts		412816104083	RASHMI.V
	Runner	National	ATHELETICS-4X100 mts relay		412816104083	RASHMI.V
2018-2019 EEE	International Tournament 2018-2019	International	Ball Badminton, Anna University			Battulas Kalyani
		National	FINAL ROUND BOMB SQUARD			BALAJI.S
2018-19 EIE	1 st Place	National		Co-Curricular	412816107039	Karthikeyan.S
	1 st Place	National		Co-Curricular	412816107039 412816107033	Karthikeyan.S Jayasuriya.V
	2 nd Place	National		Co-Curricular	412816107049	Manoj Anand. S

	2 nd Place	National		Co-Curricular	412816107049	Manoj Anand. S
	1 st Place	National		Co-Curricular	412816107049	Manoj Anand. S
	3 rd place	National		Co-Curricular	412816107049	Manoj Anand. S
	2 nd Place	National		Co-Curricular	412816107049	Manoj Anand. S
	1 st Place	National		Co-Curricular	412816107098	M. Sheik Razeeq
	<i>Winner</i>	National		Co-Curricular	412816107033	Jayasuriya.V
	1 st Place	National		Co-Curricular	412816107033	Jayasuriya.V
	<i>Winner</i>	National		Co-Curricular	412817107015 412817107076 412817107068 412817107087 412817107081	S.B.Bharadwaj, K.Sriram Kumar, G.Sanjay Balaji, B.Vimal Rajan, M.Thivakar
	1 st Place	National		Co-Curricular	412816107033	Jayasuriya.V
	1 st Place	National	IPL Bidding		412815107083	Sandeep R

	1 st Place	National	Fandom Quiz		41281510708 3	Sandeep R
	1 st Place	National	CASINO RULE		41281510708 54128151070 83	Sanjay S Sandeep R
	1 st Place	National	PLA GIARISM		41281610703 3	Jayasuriya.V
	<i>Winner</i>	National	Zonal IV - Ball Badminton (WOMEN)		41281610705 1	Maria Lurd Steffy
	<i>Bronze Medal (3rd)</i>	National	Zonal IV- Chess (MEN) Tournament		41281710704 7	Mohan Rakesh B
	<i>Silver Medal (2nd)</i>	National	Anna University Zonal IV-4*100M Relay		41281610705 1	Maria Lurd Steffy
	<i>Bronze Medal (3rd)</i>	National	Anna University Zonal IV-4*400M Relay		41281610705 1	Maria Lurd Steffy
	<i>Bronze Medal(3rd)</i>	National	Anna University Inter Zone - Ball Badminton (WOMEN)		41281610705 1	Maria Lurd Steffy
2018-19	Basket ball (Winner)		Intramural SportsSrm Valliammai Engineering college.			K Lingesh
2018-19	Volley ball (Runner)		Intramural SportsSrm Valliammai Engineering college.			S Surya
2018-19	Basket ball Runner (Zonal level)		Prince Shri Venkateshwara Padmavathy Engineering College.			K U Goutham
2018-19	Boxing (First)		VI State Rural games 2018,pallavan college of engineering ,Kanchipuram.			M Sabari
2018-19	34th Senior state inter district Kho- Kho Championship		Tamil nadu Kho-kho association			R Kaviraj

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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)

Our College encourages the students in various academic and administrative bodies by creating a platform for the students to participate in various other activities. This endows the students to achieve execution skills, gaining headship qualities, rules and regulations. Each council has a representative council, which is called Class Committee and includes student members too. The class committee meeting was conducted periodically headed by the year coordinator. The student members bring the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. The composition of student members is of one topper, one average and one slow learner (the one who has more integrity with other students) of each section are nominated as class representatives, for all the sections from II Year to Final Year. The Student Councillor helps students share ideas, interests, and concerns with lecturers and principal. They often also help raise funds for -wide activities, including social events, community projects, helping people in need and college reform. Various programs like paper presentations, workshops and seminars are organized by these bodies every year.

We have formed 6 student committees such as VECTORIANS cultural Club, Academic Committee, Anti-Ragging Committee, Sports committee, Grievance Cell, Tamil Mandram. The funding for various activities of the internal college bodies is provided by the College Management.

VEC ROBOTICS CLUB:

- Signed MOU with SakRobotix Lab Pvt.Ltd, IIT Bhubaneswar for establishing Centre of Excellence in robotics laboratory dated 12th June,2018
- College provided separate lab setup with all computing facilities with an amount of Rs. 429660
- 70 students from department of EIE, ECE and EEE have registered the course (Three years course)
- Conducted two levels of training for the robotic club students
- Conducted workshop on “Learn the Bot” for school students around Chengalpattu. Total participant: 130
- Conducted Skill Development Programme in collaboration with Entrepreneurship Development Cell, SRM VEC for all departments. Registered: 60 students
- Students from Second year participated in ROBOVR Techfest, IIT Mumbai and won first prize in the event ROWING and SWIMMING out of 150 batches
- Our institution sponsored an amount of Rs.16827 for the project design
- 25 various events students participated in various colleges for robotics

ISA CHAPTER:

The ISA-VMC section is the brainchild of the Department of Electronics and Instrumentation Engineering. Is was established with the support from the management in the Academic year 2013-2014. Our ISA-VMC is now attached to the ISA South India section.

Mission-Enable our members, including world-wide subject matter experts, automation suppliers, and end-users, to work together to develop and deliver the highest quality, unbiased automation information, including standards, training, publications, and certifications.

Vision-ISA sets the standard for automation by enabling automation professionals across the world to work together for the benefit of all.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): Yes

The Alumni Association of Valliammai Engineering College has registered, and every year alumni meet and guest lecture has been conducted to enhance the knowledge & skills of the students.

The alumni help in bringing industries and companies for campus Placements and provide employment opportunities to the students.

- It is Registered unit under The Tamil Nadu Societies Registration Act, 1975 (Tamil Nadu Act 27 of 1975) in the name “**SRM VEC ALUMNI ASSOCIATION**” on **5th December 2018** at Chengalpattu, kancheepuram District.
- All the students who have passed out of the college are members of the unit.
- It is a good platform for strengthening the relationship between the alumni.
- Alumni meets are conducted to facilitate the bonding between the institution and the alumni.

The Details of the office bearers are as follows.

S.No	Name	Dept/Branch	Position
1	Mr.C.Karthick	CSE/2003	President
2	Mr.A.Yashwin Vignesh	EIE/2011	Joint Secretary
3	Mr.I.Shiv Shankar	CSE/2015	General Secretary
4	Ms.C.Pabitha	CSE/2007	Treasurer
5	Mr.P.Balaji	EIE/2006	Executive Members
6	Mr.S.Mohamed Mobeen	MBA/2014	Executive Members

5.3.2 No. of ~~registered~~ enrolled Alumni: 719

5.3.3 Alumni contribution during the year (in Rupees) : **1,10,900**

5.3.4 Meetings/activities organized by Alumni Association : **1**

SHIMMER 2018 Alumni Meet conducted on 09.12.2018, a total of Rs.93,047 (Rupees Ninety Three Thousand and Forty Seven Only) was spent towards the expenditure of conducting the event. 75 alumni participated in the event and shared their experiences.

The following activities are conducted every Academic Year by Alumni Association

Alumni meet conducted every year.

Alumni Guest Lecture.

Few students of the alumni are entrepreneurs; they motivate and guide the students to become entrepreneurs.

An inspirational talk was conducted successfully with our EIE Alumnus Mr.K.Sundar (2012 Passed out batch), a resource person from Infosys Ltd, Chennai on 09.03.2019.

On 08.01.2019, Mr. Sathiskumar P (2012 Passed out batch), Senior Software Engineer, Health Plix, Bangalore was invited to deliver a guest lecture on “Placement Opportunity for EIE Students”

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)

A well decentralized model of working system is followed at VEC. Principal discusses with the HODs to finalize important decisions. Freedom is given to HODs to improve their departments in all aspects.

Decentralization is having a significant impact on policy, planning and management of elementary education. To promote quality of education to all sections of people in academic, social, political and aiming to develop a responsible management. At the same time, decentralization is seen as a means of improving the efficiency of education system and the quality of educational services. At various levels the college grooms the leadership. Governing body, Management, Principal, Vice Principal, IQAC Members, Steering committee, teaching staff, non-teaching staff, supporting staff, student's union, student representatives, Stakeholders, Aluminies and various committees jointly empowered to propose, design, formulate and execute their plans within the frame work of governance.

The Academic, Administrative, NCC, NSS, IQAC all are working together for the smooth running and over all functioning of the college. Seven research centres have been established that operate autonomously within the campus. The student support and academic activities are decentralized by conducting value added courses, Tamil Mandram, CSI Student branch and various club activities. Grievances Redressal Cell , Women Grievance redressal cell , Anti-ragging Committee , Industrial Training , Placements and student counseling for the betterment of staff and students

Decentralization

Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system.

1. **Principal Level** The Governing Body delegates all the academic and operational decisions based on policy to the Academic Monitoring Committee headed by the Principal in order to fulfil the vision and mission of the institute. Academic Monitoring Committee formulates common working procedures and entrusts the implementation with the faculty members.

2. **Faculty Level** Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co-curricular, and extracurricular activities.

They are given authority to conduct industrial tours and to have tie up with industry experts and appointed as coordinator and convener for organizing seminars/workshops/conferences/FDPs.

For effective implementation and improvement of the institute following committees are formed. Other units of the institute like sports, library, store etc. have operational autonomy under the guidance of the various committees/cells.

Committee/cell/Coordinator	Roles and responsibilities
Principal	Implementation and monitoring of academic and administrative system to cater to vision and mission of the institute
Academic monitoring committee	Academic development and monitoring progress of various teaching/learning processes
PG Coordinator	Academic activities of PG programmes
Examination committee/College Examination Officer	Internal & University examination activities
Research committee/Academic	Academic and research activities

Research Coordinator	
NSS Coordinator	NSS activities of SRMVEC
Training placement and career counselling cell	Training and Placement activities
Entrepreneurship Development Cell	EDC activities
Student welfare committee	Planning, execution and supervision of activities of student association
Cultural and sports committee	Planning, execution and supervision of cultural and sports activities
Student grievances redressal committee	Attending and redressal of students problems
OS	Supervision and management of all administrative and operational functions
Accountant	Management of finance and account activities
Library Committee	Management of learning resources
Ant-ragging committee	Prevention and action against ragging cases

3. **Student Level** Students are empowered to play an active role as a coordinator of co-curricular and extracurricular activities, social service group coordinator.

Participative management

The institute promotes a culture of participative management by involving the staff and students in various activities. All decisions of the institution are governed by management of facts, information and objectives. Both students and faculties allowed to express themselves of any suggestions to improve the excellence in any aspect of the Institute. Strategic Level

- **The principal**, academic co-coordinator and staff members are involved in defining the policies and procedures, framing guidelines and rules & regulations pertaining to admission, placement, discipline, grievance, counselling, training & development, and library services etc., and effectively implementing the same to ensure smooth and systematic functioning of the institute.

- For the various programs to be conducted by the institute all the staff members will meet, discuss, share their opinion and plan for the event and form various committees involving students and coordinate with others.

- **Staff members** are also involved in deciding academic activities and examinations to be conducted by the college. Functional Level

- **At functional level** the faculty members participate in sharing the knowledge by discussing on the latest trends in technology during faculty meeting. Staff members are involved in preparation of annual budget of the institute. They also correspond with the University and AICTE.

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

Yes/No/Partial:

Yes

SRM Valliammai Engineering College has a management Information ERP system. ERP e varsity application (<https://ersrm.com/evarsitysrmb/usermanager/loginManager/youLogin.jsp>) is created and it is linked with the college website. It has separate login for students, parents and staff members.

Students can access their hour wise attendance, internal marks for individual subjects, fees paid details, library, transport, student grievance, and online payment details.

Staff members can access Academic details such as student attendance entry, student activity entry,

internal marks entry, subject wise attendance report, staff attendance entry status. Staff members can access their employee profile and leave management. In leave management the applications such as leave application, Permission and on duty application, compensation leave application are available and staff can apply and see the status of leave. Individual Employee Attendance status report has been generated by linking the biometric attendance with the ERP.

Parents can view their ward's attendance details, fee details and the hour wise attendance, internal marks for individual subjects, fees paid details, library, transport, student grievance, and online payment details

The library details are linked with the ERP. The office, account section and all departments are connected with the ERP software.

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):

❖ Curriculum Development

As an affiliated College, the Institution follows Anna University curriculum. Through Curriculum Enrichment Committee, we discuss with Internal and external experts from academia and experts from Industry and Alumni for Enriching the Curriculum. By involving the stakeholders in the curriculum design, the college ensures that the curriculum developed encompasses components for employability, research, topics in emerging trends, social relevance and social needs.

The College follows a systematic process in the design and development of the curriculum. Syllabus is subjected to periodic updates. Feedback from each course teacher is collected by the respective coordinators which is consolidated and forwarded to the Board of Studies to be considered at the time of revision. Feedback from employers and alumni gives direction on the required modifications to be made in the syllabus. Subject experts both from academia (Professors from other Universities) and industry who are on the Board of Studies are consulted before revision of syllabus.

The Board of Studies frames the curriculum and the detailed syllabi of each program, after the discussion among its members. The suggestions of the board will be taken up by higher bodies such as Committee for PG Programs and Academic Council. Departments introduce new electives in emerging areas on a regular basis as per current and projected needs.

Faculty members are asked to maintain a separate file regarding the changes needs to be made in the

next curriculum revision based on their day- today experience with the course content & current issues.

Internships: Compulsory for U.G and PG Students Courses comprises Lectures/Tutorials/Labs. Seminars/Group Discussions/Presentations are highly encouraged Enrichment courses to support regular academic courses, Soft skills training programme for final year UG and PG students, Cultural education classes to inculcate social, ethical and moral values.

❖ Teaching and Learning

Outcome based education method has been followed and developed. Creation of learning environment in

classes which includes critical thinking, case analysis and innovative method. For all programmes practical orientation is insisted in the form of projects, Mini projects, industrial visit, guest lectures, workshops, seminars and symposium. Teaching and Learning process is strengthened with the help of e-learning Resources NPTEL) and On-line Learning (Model) software. Faculty development programmes and in-service oriented trainings are conducted every semester to enrich their teaching-learning methods. Remedial classes are given to slow learners. Mock interviews and group discussion are a part of simulation exercises helping them in placements. Mentoring and counselling of slow learners are part of teaching and learning process.

1. Departmental meetings be arranged periodically to review the progress of the academic plan for the current year. Appropriate measures are taken through extra classes.

2. Preparation of Objective Driven Teaching Plan.

3. A detailed lesson plan in accordance with the learning objective is to be prepared. Academic

4. Continuous evaluation diary maintained by our Faculty Members will be continued, which contain

Administrative, curricular and co-curricular activities

Study Objective

Lesson Plan

The topic and the class engaged

Teaching methods

Questions & results of the surprise test

5. Evaluation of teachers by students will be conducted periodically through online systems and will be intimated personally.

6. Class analysis of each faculty members is conducted annually by external expert. Expert comment/ suggestions are shared with the faculty members for improvement.

7. Internal academic audit will be conducted.

❖ Examination and Evaluation

➤ Three Internal Assessment Test are conducted and are being evaluated within 3 days after completion the exams.

➤ Internal marks are allotted based on the assessment test marks and the student's attendance Percentage.

➤ Theory and practical examinations consists of two components Namely, External evaluation for 80% marks

and internal evaluation for 20% marks. Every day Slip test are conducted for all the subjects.

➤ The attendance as well as the assessment marks is communicated to the parents through mobile, e-mails, letters and parent teachers meeting conducted every semester to review the performance of the students.

➤ Counselling of students every month to find out the academic progress and guide them towards improvement based on remedial classes.

1. In each semester three periodical tests are conducted.

2. End semester examinations are conducted twice in a year. One in July-Aug and the other in Nov-Dec.

3. University forms a list of competent examiners for evaluation.

4. Students can also review their copies through proper channel and procedure.

❖ Research and Development

The Research and Development Cell is established with an objective of promoting research by students and the faculty members in newly emerging and challenging areas of Engineering, Technology, Science and humanities. R&D Cell encourages the faculty members and students for sending research proposals and receiving funds from various research bodies.

Faculty provided with On – Duty, Registration fee refunds for participating in conference, FDP, Seminars etc.

Encouraging faculty to organize, attend and present papers at state/national/international conferences and seminars.

Faculty members and students are motivated to publish their research papers in reputed national and international journals / conferences. Faculty members are guiding the students to do grant-in aid research under student project scheme. Experts from reputed institutions are invited for R & D related interactions. The project proposals are usually examined and evaluated by the Project scrutinizing committee before they get sent to the funding agency.

1. Staff members are motivated to take up UGC Research Projects (Major and Minor), AICTE RPS, DST, DAE and publish research articles, apply for patent.
2. Students are motivated to opt research based projects in final year which helps to inculcate research aptitude among the students.
3. All the departments have been equipped with computer and internet facility.
4. Encouragement is given to faculty members to attend international/national conferences/symposia/seminars.
5. Institute organises International /National conference/seminar/workshops regular basis.

❖ **Library, ICT and Physical Infrastructure / Instrumentation**

Library has sufficient e-journals which include Science direct, Springer & IEEE etc. and sufficient back volumes for all the departments. Digital library facilities with National and International online journals are also provided. Library administrations like issue / return of books are maintained through commercial library software. The library building is enabled with Wi-fi facility. Every year, additional volumes of books are added based on the requirements from all the departments.

ICT: All class rooms, tutorials rooms, seminar halls, laboratories pertaining each department is enabled with ICT tools. For every subject, power point presentation and animated videos are being prepared by the faculty members and it is used for taking classes in an interactive way.

College library has a fully equipped spacious library in an area of 2700 Sq.m is spread over 2 storeys and is housed in the New Block. The college has also subscribed for 315 journals and magazine periodicals including IEEE online journal, to give an exposure to our students to the latest

technology. The college has a very good separate reference section, two reading halls, a reprographic section and a CD section to cater to the needs of the students and faculty.

The Strength of Library and Services provided in the Library include:

- Fully computerized working Systems.
- 15,847 Titles and 48,902 Volumes (availability exceeds AICTE Guidelines).
- 12,541 Indian/ Foreign Journals / Magazines / Online Journals from IEEE and ASME.

SRMVEC has been developed and fully established with 5 imposing multi-storeyed Academic Blocks and 2 Workshop Blocks. All the laboratories have adequate facilities with the latest equipment and machinery to provide optimum exposure to students to learn the subjects both in theoretical and applied aspects.

- Main Block 1 & 2
- New Block
- First year block
- Civil Engineering Block

The Buildings house fully furnished Laboratories, Class rooms, Drawing halls, Conference halls, Offices for HODs, Staff rooms, Seminar Halls, Department Libraries and other facilities as per 'AICTE Norms and Standards'.

❖ **Human Resource Management**

As per the AICTE & Anna university norms, faculty and staff requirement is forwarded to Recruitment committee consisting of Principal, Dean Academics, HOD, senior faculty and External subject expertise for further action.

Arranging various orientation programmes for both teaching and non-teaching faculty members for upgrading their skills in their respective fields using latest technology.

Incentives are given to the faculty members for presenting research papers in reputed Journals / International and National Conferences.

Faculties are supported financially to attend Conference / Workshop & FDP's conducted outside the Institution.

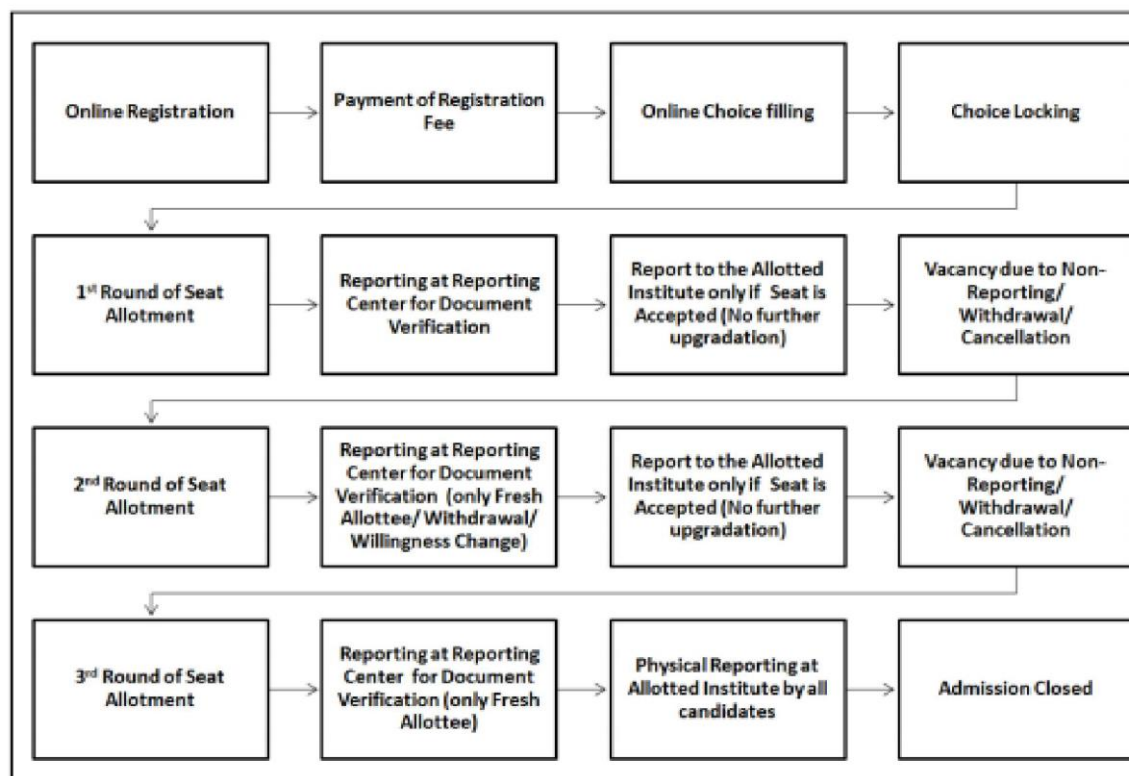
❖ **Industry Interaction / Collaboration**

The institution emphasizes upon career development of the students. This can be achieved by establishing MoUs with reputed core industries to enhance Industry-Institute Interaction activities like internships, industrial visits, in-plant trainings, value added courses, industrial projects, guest lectures etc., for the benefit of students.

❖ **Admission of Students**

Admissions are made upon the basis of Tamil Nadu Engineering Admissions—single window system

procedure for the government quota students and through the consortium of self-financing engineering colleges for the management quota students.



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

❖ Planning and Development

Implemented SMS system for dissemination of information including regular notice to all stakeholders. To contribute to the development of human resources in the form of professional engineers and managers of international excellence and competence with high motivation and dynamism, who besides serving as ideal citizen of our country will contribute substantially to the economic development and advancement in their chosen areas of specialization. To build the institution with international repute in education in several areas at several levels with specific emphasis to promote higher education and research through strong institute-industry interaction and consultancy.

❖ Administration

The Administration of the College is functions with E-governance system at Government, Society and College level. With the help of developed technological world like Whats up, facebook, SMS college staff uses the same for administration purpose. Such as use of Smartphone with inbuilt social app like Gmail and WhatsApp they share the notes to students. It helps to provide the brief notice of any event to be happened on college. WhatsApp Group for awareness and of smooth functioning of the same. The college have Biometric attendance for teaching and non-teaching staff. The college campus is equipped with CCTV Cameras.

❖ Finance and Accounts

The college uses the e- Varsity ERP for transparent functioning of Finance and Accounts department of the college. This helps to increase the efficiency of staff towards the accuracy in financial transactions. The college conducts regular audit of annual books of accounts. The

administrative office keeps the all financial records separately as per the events and transactions made for. The administrative office maintains the Books of Accounts properly which helps in auditing procedure.

❖ Student Admission and Support

The most important key factor of the college toward the student's admission and support is that college has system which allows the student to take admission fee for every academic year. College has extended helping counter for the students which provides them several services as such Admission form Filling, Examination form filling as well as Scholarship Form filling at one place only. This service counter protects the students from outside service centre where they need pay fees for it. The Helping counter i.e. service centre provided at college is free of cost. The College has provided the facility to the students for linking the contact number with aadhar card which was mandatory for the students as per the government rule.

❖ Examination

The College has the separate Examination department for examination purpose. As per the requirement of Examination department all the necessary equipments are provided by the college such as Separate Desktop and Internet Facility for online procedure of Paper Downloading and further activities for exam purpose. The examination department has the separate Machine for printing the question papers downloaded from university portal.

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
2018-19	-	Institute Membership	ISTE	41,300
2018-19	-	MMA Conference for Students and Teachers	MMA	3,540
2018	Dr.M.Murugan	-	International society of Automation	1,20,050
2019	Dr.Madhusudhanan.G	International Conference,PSG college, Coimbatore	-	2,600
2019	Dr.Anbuchezhian.M	International Conference,PSG college, Coimbatore	-	2,600
2019	Dr.Komala James	Margadharshan scheme	-	21,290

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 administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participant s (Non- teaching staff)
2019	Skill Development Training Programme on Delegation and Empowerment	14/06/2019	-	1

2019	Skill Development Training Programme on Networking and Data security	13/06/2019	-	1
2019	Staff Development Programme on Plastic Waste Pollution – a powerful Destructor into Future Source	08/05/2019	-	1
2019	Staff Development Programme on Erection of Solar Power Plant	30/04/2019	-	1
2018	Staff Development Training Programme on MS-Excel	05/12/2018	-	1
2018	Staff Training Programme on Fundamentals in Networking and MS-Office	16/11/2018	-	1
2018	Staff Development Programme on Role of Emotional Intelligence in Workplace	09/11/2018	-	1
2018	Staff Development Programme on Establishing Effective Work Place Relationship	11/05/2018	-	1
2018	Skill Development Programme on the course of Computer Aided Drafting	10/05/2018	-	1
2018	Entrepreneurship Awareness Camp (EAC)	23-08 - 2018 to 25 -08- 2018.		3
2018	Installing and Operating MEGHDOOT	26.012.18		6
2018	Intelligence, Machine learning, Cloud Computing and their Applications	29-11-2018 to 04-12-2018		8

2019	NASSCOM Future Skills Training Programme	8.2.2019		25
2019	Mathematical Computation in Computer Science	24-05-19 to 30-05-19		10
2019	Cloud Computing	6-06-19 and 7-06-19		7
2018	Faculty Development Programme EE8451-Linear integrated circuits and applications	3.12.18 to 8.12.18		22
2019	Faculty Development Programme EE8301Electrical machines1	6.5.16-10.5.19		16
18-19 Internet of Things	Web Application Development IS on 19.06.2018	19.9.2018	23	03
Advanced controllers for Applications in Instrumentation engineering	Plastic Waste Pollution- a powerful destructor into future resource on 08.05.2019	25.7.2018	23	18
Hardware in Networking	Role of Emotional Intelligence in Workplace on 09.11.2018	16.8.2018	23	21
Control of processes and concepts of Electrical Machines	Fundamentals in Networking and MS-Office on 16.11.2018	12.11.2018 to 17.11.2018	23	01
Modern Design Technologies in Instrumentation and control	Team Building and Behavioural on 10.12.2018	11.1.2019	23	02
Emerging Trends in Industrial automation	MS-EXCEL on 05.12.2018	7.2.2019	23	02
Job opportunities and current technological developments	Hands on Training on LED Fabrication on 31.11.2018	2.3.2019	23	01
Faculty Development Programme – Distributed Operating Systems		19.11.18 – 26.11.18	13	
Faculty Development		28.05.19 –	11	

Programme – Communication, Network and Security		31.05.19 & 03.06.19 – 04.06.19		
	Team Building and Behavioural Skills	10.12.18		1
	Conflict Management and Confrontation skills	14.12.18		1
	Role of emotional intelligence in work place	09.11.18		2
Faculty Development Programme – Distributed Operating Systems		19.11.18 – 26.11.18	13	-

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	Date and Duration (from – to)
FDP on Environmental Engineering	38	15.11.2018 -20.11.2018
FDP on Fluid Mechanics	25	23.05.2019 - 29.05.2019
Drafting for Patent Filing	7	28.12.2018
Installing and Operating MEGHDOOT	6	26.01.2018.
Intelligence, Machine learning, Cloud Computing and their Applications'	8	29-11-2018 to 04-12-2018.
Mathematical Computation in Computer Science	10	24-05-2018 to 30-05-2018.
Cloud Computing	7	06-06-2019 to 07-06-2019.
Entrepreneurship Awareness Camp (EAC)	3	23-08-2018 to 25-08-2018.
Control of processes and concepts of Electrical Machines	17	12.11.2018 to 17.11.2018
Electron devices & VLSI	20	06.05.2019 to 10.05.2019
Digital Signal Processing	31	10.06.2019 to 15.06.2019
Advanced CMOS VLSI	2	03/12/18 to 08/12/18
Machine learning using TensorFlow with Keras	3	22/11/18 & 23/11/18
Data Science using Python	1	13/11/18
Terminal Antenna Design for future Wireless	1	02/11/18
Underwater Optical Communication and Modeling of Photonic and Photovoltaic Devices (WOPPD)	1	27/07/18 & 28/07/18
Signals and Systems	1	04/06/18 to 11/06/18
FDP EC6703-ERTS	12	17/05/2018 & 18/05/2018
FDP EC6503-TLW	13	21/05/2018 & 22/05/2018

Art of Writing Funding Proposals and research articles	4	17/11/2018
Review of Intellectual Video Surveillance through Internet of Things	1	04/01/2019& 05/01/2019
New Engineering Material and their applications	1	23/03/2019
URKUND: Plagiarism Detection Service	2	03/04/2019
Faculty Development Programme – Cyber Security	1	28.09.18
Faculty Development Programme – The Deep Learning	1	03.12.18 – 04.12.18
Training Programme – URKUND Plagiarism Detection Service	1	03.04.19
Faculty Advisor forum-2018	1	14/12/2018 to 15/12/2018
Faculty Induction Programme of Student Induction Programme	1	26/11/18 – 28/11/19
Faculty Induction Programme of Student Induction Programme	1	10/06/19 -16/06/19

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

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
49	49	14	14

6.3.5 Welfare schemes for

Teaching	<ul style="list-style-type: none"> Staff Welfare Fund EPF GSLI (Group Savings Linked Insurance) Laptop Children Welfare Staff Quarters SRM General Hospital Maternity leave Transport Facility Sponsorship Ph.D. Allowance Cash Award
Non teaching	<ul style="list-style-type: none"> Staff Welfare Fund EPF GSLI (Group Savings Linked Insurance) Children Welfare SRM General Hospital Maternity leave Transport Facility
Students	<ul style="list-style-type: none"> SSI (Student Safety Insurance) SRM General Hospital Management fee waiver for economically backward and meritorious students. Library card provided for meritorious students.

6.4 Financial Management and Resource Mobilization

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

The institute has a mechanism for internal and external audit. We have our own internal audit mechanism where internal audit is an ongoing continuous process in addition to the external auditors to verify and certify the entire Income and Expenditure and the Capital Expenditure of the Institute each year. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Likewise an external audit is also carried out on an elaborate way on quarterly basis. The institutional accounts are audited regularly by both Internal and statutory audits. So far there have been no major findings / objections. Minor errors of omissions and commissions when pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future. The institute regularly follows Internal & external financial audit system.

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Minor errors of omissions and commissions when pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future. The institute regularly follows Internal & external financial audit system.

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/ Grants received in Rs.	Purpose
Student Project Scheme- TNSCST	Rs. 26,500/-	Student Project
Student sponsored by the College	Rs. 5000/-	Student Project
DST- SERB	Rs. 11,50,000	R&D- Major Project
Korean research Brain pool Fund	Rs. 3000000/-	R&D- Major Project
Entrepreneurship Awareness Camp	Rs. 20,000/-	Student

		Camp
Khivraj charitable trust	Rs.3000/-	Seminar
Khivraj charitable trust	Rs.3000/-	symposium
TVS	Rs.3000/-	symposium

6.4.2 Total corpus fund generated : Rs.42,15,500/-

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	TUVRheinland	Yes	ISO Department Coordinators
	Yes	ISO, NBA,NAAC	yes	ISO Internal Audit
Administrative	Yes	ISO, NBA,NAAC	yes	ISO Internal Audit

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

1. NBA ---Interaction with parents

2.NAAC- Advisory committee meeting every six months for three years involving parent as a member

- **First Year Meetings (2018 Batch) :** PTA arranged a function to welcome the first year students and their parents on the day of commencement of the first year classes. A well-arranged meeting was conducted on 01st August 2018

Counselling for students: Department of EIE conducted a Counselling Session for their wards with the assistance of P.T.A. on 23.02.2019.

6.5.3 Development programmes for support staff (at least three)

Staff Development Training Programming---1.Excel, 2.InDesign, 3.Python

SDP/STTP Events Attended details for Academic Year (2018-2019)

S. No	Title	Date	Organized by	No. of Participants
1.	Role of Emotional Intelligence	9.11.2018	EIE/VEC	01
2.	Fundamentals in Networking and MS-Office	16.11.2018	IT/VEC	01
3.	Making Woods Joints and Pipe Fittings	22.11.2018	CIVIL/VEC	02
4.	Team Building and Behavioural	10.12.2018	Placement/V EC	02
5.	MS-EXCEL	05.12.2018	CSE/VEC	02
6.	Hands on Training on LED Fabrication	30.11.2018	EEE/VEC	01

	7.	Conflict Management and Confrontation Skills	14.12.2018	MBA/VEC	01	
TOTAL					10	

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

1. ISO Audit (Internal and External)

2. NAAC- Post Accrediation----Research center

3. NBA-Post Accrediation-----

- Centre of excellence-Laboratory(IOT,Machine learning and Data analytics, Cloud computing, Network Security)
- MOU signed
- Entrepreneurship Awareness Camp--DST–NIMAT
- Student Project Scheme-TNSCST
- Empowerment and Equity Opportunities for Excellence in Science--DST-SERB
- Support for Entrepreneurial & Managerial Development of SMEs through Incubators—MSME

Curriculum for the Future The institution engineered the modernization of its curricula during the post-accreditation phase, and now significant up gradation and innovative changes are brought in the curriculum.

The curriculum is designed incorporating:

- a) recent trends in industry to suit the course syllabi, value added courses,
- b) soft skills education,
- c) internships with mini projects in all UG and PG Courses,
- d) Participation in co- curricular, extra-curricular and extension activities such as seminars, group discussions and assignments.

The statutory bodies of autonomy i.e The – Board of Studies (BoS), Academic Council and Governing Body was constituted to fulfil the requirements of autonomous institution. Meetings of these bodies are held regularly and all the constructive recommendation of the bodies for the improvement of quality of the institution is being implemented. The changing industry scenarios and advances in technology require added skill sets from potential employees. Impulsion on career growth requires restructuring of the curriculum. The institution is offering skills development courses under the TN state government .The institution is also offering few training classes to students to improve their technical and personal communication skills

Teaching –Learning process

Quality Sustenance –

- The process of admission based on academic records and transparency has been continued.
- Student’s performance assessment is measured based on Tests, Tutorials, and Orals examinations.
- The encouragement through supplying reference material and providing question bank has been continued for advance learners.
- Lesson (Teaching) plans form faculty members are sought as before and Lesson Plan Monitoring Committee has been monitoring the work as before.

Enhancement Measures –

- College prospectuses, advertisement website, information brochure, are the mechanism used to publicize

the information regarding admission

- Remedial coaching for slow learners is being organized through Institute funds.
- Project, case study, field visits based learning mode i.e. learning by doing has been implemented for advance learners.
 - SWOC analysis of students is done at entry level, their academic needs are assessed and accordingly students are helped during the academic programme. The student performance and counselling records are introduced from I B.E
- Soft Skill Development and finishing programmes are being implemented for 3rd year students. Orientation programmes for first year students are initiated.
- Entrepreneurship development programme has been designed and being implemented for the students.
- Teaching plan monitoring is done by Head of the Departments Fortnight Progress reports are prepared and reviewed regularly.
 - Academic calendar is prepared and implemented by Academic section/examination section.
- IQAC has promoted the use of ICT in teaching and learning process.
- Support structures and systems for teaching and learning are installed. Language laboratory has been established to enhance English learning.
 - Digital Library facility is being utilized by staff and students effectively.
- Question paper setting based on blooms taxonomy is introduced for the benefit of all the categories of students.
 - Various innovative teaching and learning methods are being practiced for enhancement of teaching & leaning qualities.
- 100% faculty members are being involved in faculty development programmes

Research, Consultancy and Extension

- The research policy of the institute is to initiate and promote research by promoting individual and institutional research.
- All the research initiatives are streamlined through the Research and Development cell headed by a senior professor at this institute.

Conducting workshops/orientations by eminent Post-accreditation Initiatives

6.5.5

- a. Submission of Data for AISHE portal : Yes
 b. Participation in NIRF : Yes
 c. ISO Certification : Yes
 d. NBA or any other quality audit : Yes

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration	Number of participants
2018-19	ISO Internal Audit	3 times per semester	One to Two days	Whole Department
2018-19	ISO External Audit	Yearly once	Two days	Whole department and College

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-to)	Participants	
		Female	Male
Women entrepreneurs development programme	1/11/19 to 30/11/19	25	-

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources

Renewable energy source	Renewable energy generated and used
1kw solar panel-1	1952kwhr for the academic year 2018-2019

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No
Physical facilities	YES
Provision for lift	YES
Ramp/ Rails	YES
Braille Software/facilities	NO
Rest Rooms	NO
Scribes for examination	YES
Special skill development for differently abled students	NO
Any other similar facility	NO

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2018	2	2	27.02.2019 to 05.03.2019	1) Construction of six communal toilets 2) Construction of ground water recharging bodies	Absence of proper Toiletry system in Ozhalur Village, Kattankulathur Block	54

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Academic calendar	June 2018	<p>Yes Separate code of conduct is prepared by the institute for the students .Teachers follow the code of conduct of SRMVEC.</p> <ul style="list-style-type: none"> • Responsibility and Accountability of teachers. • Rules and regulation of SRMVEC

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration	Number of participants
Swachh Bharat Summer Internship Programme	08.06.2018 to 20.06.18	2
International Yoga Day	21.06.2018	89
Kerala Relief Efforts	23.08.2018	27
Helmet Awareness and Road Safety Drive	14.09.2018	15
Tree Plantation	25.09.2018	545
Youth Awakening Day	15.10.2018	45
RashtriyaEktaDiwas & Vigilance Awareness Week	31.10.2018	47
GAJA Cyclone Relief and Rescue Team	21.11.2018 to 25.11.2018	33
Distribution of Nilavembu Kudineer	06.12.2018 to 08.12.2018	475
Bharthiyar's Birthday	11.12.2018	27
Voters' Day	25.01.2019	462
Republic Day	26.01.2019	280
Blood Donation Camp	13.02.2019	169
PLASTIC ERADICATION AWARENESS Camp	21.02.2019 & 22.02.2019	2520

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

- Tree plantation
- Minimizing water wastage
- Deployment of solar heaters and lighting
- Rainwater harvesting
- Minimizing usage of papers
- We create awareness in the locality regarding cleanliness, plastic free zone, no-smoking or sale of tobacco.
- **Recycle-Reuse-Reduce:** Keeping in mind the environment being harmed unnecessarily because of use of paper for reporting and record keeping, we at SRMVEC would like to initiate the triple R solution for various processes. The aim is to move towards paperless office, for which we would identify various processes which can be made completely paperless in the first stage. Adding more processes to have a seamless system with minimum use of paper and hence contribute towards protecting tress and saving the earth.
- **Blood Donation Camp** organised at college campus
- **Plantation:** The SRMVEC has massive plants and trees on the campus and is a green campus in reality.

Sufficient money is spent to keep the environment green.

- **e-waste management** -In SRMVEC the Following practices are followed
 - A. Efforts to reuse the e-Waste like computers to teach the basics at the school level.
 - B. Efforts to repair the computers and to be used for students and library.
 - C. wherever possible recycling is done.

7.2 Best Practices

Describe at least two institutional best practices

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

1. Evarsity ERP application is created and linked with the college website. Students staff and parent can access the portal.

<https://erpsrm.com/evarsitysrhm/usermanager/loginManager/youLogin.jsp>

To provide transparency, the faculty details of every department are included in the website. Faculty profile is uploaded

link: http://www.srmvalliammai.ac.in/becse_faculty.html

http://www.srmvalliammai.ac.in/becivil_faculty.html

2. E- learning resources are provided in the website.

<http://www.srmvalliammai.ac.in/e-learning.html>

Spoken-tutorial: <http://spoken-tutorial.org>

NPTEL: <https://onlinecourses.nptel.ac.in/explorer>

SWAYAM: <https://onlinecourses.nptel.ac.in/explorer>

epgPathshala: <http://epgp.inflibnet.ac.in>

MOOC: <http://mooc.org>

GATE: [GATE Materials - Download](#)

Online Talent Test: Youth4work.com

Online Talent Test: Wheebox.com

Title of the Practice: Pedagogy addressing outcome based education and heterogeneity of intellectual evolution (NO ONE IS LEFT BEHIND)

Objectives of the Practice : The objectives/intended outcomes of this best practice are:

- To facilitate effective teaching learning process in all the courses.
- To accomplish holistic growth of students and enhance their learning experiences and outcomes.
 - To ensure effective teaching learning, students are actively involved in the teaching learning process

through student centred innovative pedagogies such as inquiry approach, constructive strategies, project learning, brainstorming sessions, ICT based learning and presentations.

- Monthly attendance of the students is intimated to the students and their parents. On the basis of low attendance, students are detained from appearing in examination (at the end of the semester).
- Each department submits an annual report on the activities comprising academic activities, research and extension activities.
- Innovations in teaching/learning, publications, staff and student achievements, extra and co- curricular activities are also highlighted in the report. Annual reports of various departments are consolidated at the Director's office, which further goes to the Governing Body.

To ensure quality sustenance and enhancement, the Institute periodically conducts the performance audit of the departments (by Internal Quality Assurance Cell) which includes review of Teaching – learning methodologies, result analysis, research output, Faculty Development Programs attended/conducted and Extension activities, Co-curricular and extra-curricular activities conducted during the year. Celebration of birth anniversary of all great personality of India.

7.3 Institutional Distinctiveness

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

<http://www.srmvalliammai.ac.in>

The vision of this autonomous institution is “**Educate to excel in Social Transformation**”. The big problem of our country is unemployment among educated youth. Therefore, the need for skill-based system of education is becoming more popular in present times. A couple of important initiatives taken at the institution towards skill-based education. Value added courses were introduced to students to know and study the latest technologies. MOUs have been signed with different institutions to exchange knowledge. Industry Institute Partnership Cell is efficiently in the college. The students avail hands-on training during their internships in pioneering industries. Entrepreneur Awareness Cell is working efficiently in our college and conducting awareness programmes to equip the students for their future. The college is one of the few institutions in the state offering employment-oriented skill development programmes. The college aims at creating international eminence and become a model institution for higher learning through dedicated development of minds, advancement of knowledge and professional application of skills to meet the global demands. The mission of this institute is to contribute to the development of human resources in the form of professional engineers and managers of international excellence and competence with high motivation and dynamism, who besides serving as ideal citizen of our country will contribute substantially to the economic development and advancement in their chosen areas of specialization. For that several professional society memberships were created among students such as Computer Society of India, ISTE, Indian Science Congress and they are actively participating in all events. With the skills gained, the student becomes more determined and confident in facing the future. To build the institution with international repute in education in several areas at several levels with specific emphasis to promote higher education and research through strong institute-industry interaction and consultancy.

The institute focuses on the Mentor-Mentee relations, where the faculties are allotted few students, who take care of the students in his/her academics, problems, acting as a counsellor and a guide. They encourage their students to actively participate in various activities of the institute. Workshops, internship, guest lectures, presentations, group discussions, conferences/seminars are arranged from time to time apart from regular class room learning. Alumni, students, faculty, staff feedback is conducted to enhance in the quality of teaching learning process. Students are actively participating in all the events conducted by the institute leading to leadership and team building qualities.

Students are encouraged to participate in social club activities like NCC, NSS and YRC. Students showing their bond and responsibility towards the society through blood donation camp, traffic monitoring schemes.

- SRMVEC is a self-financing, quality conscious and trend setting Institute with focus on providing equal opportunities for development of human potentials for every segment of society including the differentiated one.
- Every year, students of SRMVEC bag Gold Medals, receive merit certificates and achieve excellent results in exams held by Anna University.
- The SRMVEC is a venture of its own kind where academics and professionals have joined hands to aid and direct the agenda of education.
- The vision and mission statement highlighting its distinctness are placed prominently on the institute website.
- In terms of placement, SRMVEC boasts of not only a steady stream of campus recruiters but we have also assurances for future tie-ups and recruitment opportunities for our students.
- Faculties are with industry exposure and academically well qualified.

The Institute has been established through the dedicated and selfless endeavours of educationists and social workers who are deeply concerned with the standards of education and are determined to upgrade the quality, content and direction of education.

8. Future Plans of action for next academic year (500 words)

To make everything systematic and to make everything computerized. To enhance the employability skill of the students, collaboration with reputed organisations for advanced teaching learning process. Accessibility of digital library to be widened further. To conduct competitions, workshops and conference for students on the basis of recent technologies. To launch more activity clubs for students to explore more extracurricular knowledge. Additional research centres to be established to enhance the knowledge of faculties and students. Planned to organize more community service activities to contribute to the wellness of the society.

Name _____

Name _____

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

_____***_____

Abbreviations:

CAS	-	Career Advancement Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution

For Communication with NAAC

The Director

National Assessment and Accreditation Council (NAAC)

(An Autonomous Institution of the University Grants Commission)

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