



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	VELAMMAL ENGINEERING COLLEGE
Name of the head of the Institution	Dr.N.Duraipandian
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04426591842
Mobile no.	9123547591
Registered Email	principal@velammal.edu.in
Alternate Email	velammal@velammal.edu.in
Address	Ambattur - Redhills Road Surapet
City/Town	Chennai
State/UT	Tamil Nadu
Pincode	600066
2. Institutional Status	

Autonomous Status (Provide date of Conformant of Autonomous Status)	29-Apr-2019
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.S.Srinath
Phone no/Alternate Phone no.	04426590758
Mobile no.	9941137212
Registered Email	iqac@velammal.edu.in
Alternate Email	drsrinath@velammal.edu.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://velammal.edu.in/wp-content/uploads/2022/07/AQAR-Report-2018-19.pdf
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4. Whether Academic Calendar prepared during the year

Yes

if yes,whether it is uploaded in the institutional website:
Weblink :

<https://velammal.edu.in/wp-content/uploads/2022/08/Velammal-Engineering-College-Academic-Calendar-19-20.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.27	2009	30-Sep-2009	30-Sep-2014
2	A	3.07	2016	17-Mar-2016	17-Mar-2021

6. Date of Establishment of IQAC

07-Aug-2010

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Goal Oriented Activity review and audit	08-Jul-2019 5	45
Participation in NIRF Ranking	17-Sep-2019 10	25
Autonomous Curriculum and syllabus framing standard procedures	15-Jul-2019 25	30
Management Review meeting Quality surveillance audit	10-Jul-2019 3	20
Workshop on Art of Writing Research Project Proposal	21-Nov-2019 2	51
Workshop on Intellectual Property Rights	14-Nov-2019 2	34
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Velammal Engineering College	Newgen - IEDC	DST	2017 1825	28700000
Velammal Engineering College	Higher Education cell for SC/ST	AICTE	2019 730	820000
Dr.A.Balaji Ganesh	DST-DDP	DST	2019 548	2401000
Velammal Engineering College	Skill and Personality Development Program Centre for SC/ST students	AICTE	2020 730	1129185
Dr.A.Balaji Ganesh	DST-SATYAM	DST	2020 730	3172000
Dr.A.Balaji Ganesh	DST-TIDE	DST	2019 730	2930000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
<ul style="list-style-type: none"> •Participation of National Institution Ranking Framework and got Rank band between 251 300 Rank in Engineering Category. •Goal Oriented activity audit supported to enhance the academic and students participation in various events. •Nurturing the importance of the innovations among the students and faculty members supported for carrying out more number of innovative projects supported by New GEN IEDC. •Preparation of Standard Operating Procedures (SOP) for autonomous curriculum and syllabus framing. • Quality surveillance audit of ISO 9001:2015 was successfully completed 	
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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achivements/Outcomes
To conduct seminars, workshop and conferences related to different courses by all the departments. More number students to attend various events conducted by other institutions	Students got leadership and organizing skills. Faculty members gained knowledge in the emerging field in their domain.
More number of faculty members to attend FDPs/Workshops/Seminars related to Outcome Based Education	Faculty members attended various programs related to OBE organised by reputed institutions. Faculty members learned and effectively implemented the OBE concepts.
Industry Institute interaction to be improved for enhancing consultancy and students inplant training/Internship	Through Industry Institute Interaction faculty members received more number of consultancy works. Students got industrial exposure through inplant training/Internship
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14. Whether AQAR was placed before statutory body ?	Yes
Name of Statutory Body	Meeting Date
Governing Body	04-Sep-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	13-Sep-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	09-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p> MANAGEMENT INFORMATION SYSTEM: ERP: College Management Software automates from admission of students and beyond. It works better and smarter for administration, students, and faculty and enhances the communication between them. It captures personal, contact and course details of students. The software enables the student to submit online application forms for easy admission. Manage all enquiries registration using online forms. Realtime status updates followup with automatic reminders. Track enquiries enroll more students with dashboards reports. Centrally stores enrolment data of students in one place to send email and information alerts to students. Mark and track attendance records of students and staff. Automate attendance system with biometric integration for staff. Generate a variety of leave reports. Invoice options for tuition and other student fees. • Online payments with payment gateway interaction. Fee due alerts and payment remainder. Invoicing options for tuition and other student fees • Quick catalog search with advance search capabilities library. Configure rules for issue, returns and renewal of books. • Unique library management module is integrated with the other relevant modules of the software it manages all the activities carried out in a standard institutional library • Robust search engine for quick search by title, subject, author, keywords, </p>

publisher or year of publication. • Unique Id to every book. • Issuereturn function supported by Bar Code if Required. • Subscription expiry and renewal reminders for periodicals. • Automatic record of fine imposed / dues receivable from members against late return of books and periodicals. • Engineering college management system is highly configurable, customizable, scalable and flexible, and ensures college leads get accurate reports about administration academic aspects for better decisionmaking. • Unique id to every newly admitted students. • Address details such as permanent, correspondence, guardian etc. photograph can be stored. • All Student Scholarship report can be maintained. • Creates useful MIS reports like daily fees received, outstanding amount, defaulter list etc. Employee management: • Provides Office information covers dept, Job profile, grade, etc.,personal information. • Processes salary of employees based on configurable components. Employees can view salary slip. Customizable deductions such as PF/IT/ PT. • Generates monthly salary statement as per predefined format. Store Management: • Accepts requisition from different departments/departmental heads. • Generates purchase order to be sent to the vendors. • Generates quotations or request to be sent to empanelled vendors/ suppliers for stock. • Customized reports can be added as per requirement. • General accounting reports Ledgers, Cash book, Bank book, Purchase register, Sales register etc. Integrated with fees and admission modules LAN connectivity: • Internet facility is available for all systems in the whole campus. The entire campus is optically networked between buildings and cable within the buildings for connectivity. Airtel 100 Mbps connection is our internet service provider. We have the facility to make phone calls all over the campus. The entire centre is efficiently powered by a backup power supply system. • A stateofheart campus network with a Leased line Internet connection offer unlimited access of Internet for the students

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	101	Automobile Engineering	15/06/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Automobile Engineering	10/05/2012	19EN101T - Communicate English	07/08/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechanical Engineering	20/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MBA	Master of Business Administration	21/08/2017
ME	Computer Science and Engineering	21/08/2017
ME	Power System Engineering	21/08/2017
BE	Automobile Engineering	21/08/2017
BE	Civil Engineering	21/08/2017
BE	Computer Science and Engineering	21/08/2017
BE	Electronics and Communication Engineering	21/08/2017
BE	Electronics and Instrumentation Engineering	21/08/2017
BE	Electrical and Electronics Engineering	21/08/2017
BE	Mechanical Engineering	21/08/2017

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
Additive Manufacturing	11/01/2020	20
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Automobile Engineering	12
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

1. Student feedback: Class committee meetings are conducted periodically to observe feedbacks from Students on the teaching and learning process. The meetings are headed by the class committee chairperson appointed by the HoD and academic coordinator. Student representatives and course handling faculties are invited to attend the meeting, the feedbacks from students on teaching learning process are observed and recorded. Actions are taken on the feedbacks obtained from students. Suggestions from the students on syllabus content of the courses are discussed and recorded for further revision in the future. Also feedback is obtained at the end of the semester from students on the teaching - learning process on a scale of maximum 5 points and any deviation observed is intimated to the concerned faculty for improvements in the upcoming semesters by HoD. A set of questionnaires were raised to the students through the feedback form regarding the objective of the course, sequence of course contents, prerequisite for the course and relevance of the course to the program outcomes and employability opportunities. 2. Exit survey: The feedback on the level of attainment of the program outcomes of all the students are collected at the end of the program and attainment score for each program outcome is computed and considered in the overall program outcome attainment score. If it is less than threshold target set in the department, then corrective measures are taken for further improvement in the future. 3. Alumni: Alumni feedback on whether the design of the course is motivating self - learning, meets the needs of industry society and supports in promoting lifelong learning and ethical practices were collected. Finally, any programming tools, software frameworks and other tools to be added to any course are requested from the alumni. Based on the feedback and attainment levels, corrective actions are taken for further improvements in the future. 4. Employers: The questionnaires given to employers are intended to collect information regarding the conduciveness of the syllabus towards the

student's readiness for recruitments, inculcating student's creativity in the curriculum. Finally, the graduate's satisfaction towards the curriculum and syllabus, relevant to the organization's requirements are collected and documented. 5. Parents: The feedback forms for parents include set of questions like whether the curriculum syllabus supports for future development, curriculum is outcome based, availability of electives over various domains. Also the survey concentrates on whether the curriculum supports entrepreneurship and make students industry ready by imparting analytical and reasoning, language and soft skills in addition to technical competencies, as desired by the industry. 6. Teachers: The feedback form consists of queries related to organisation of the curriculum and syllabus, its suitability for the program, reflection of the course content on the current trends and the availability of adequate time for the effective coverage of syllabus and laboratory classes. Also the feedback on whether the syllabus imparts adequate knowledge to the students and contributes to design thinking and critical analysis and its relevance to employer preferences are also collected and documented.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Information Technology	60	60	47
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2937	125	194	14	208

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
208	204	10	17	20	6
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

The scheme is adapted for the value additions to the students like bridging the gap between the teachers and students. The IQAC had taken the initiative of implementing the mentoring of students. Students are categorized based on the streams of studies and also according to their core subjects. They are divided into groups of 10 to 20 depending on the number of students. Each group is assigned a teacher mentor who would perform

mentoring duties. A Mentoring Format with Guidelines is prepared by the IQAC to ensure uniformity. a. Mentors maintain and update the Mentoring Format which contains space for entering particulars and performance of students (class tests, monthly attendance records, etc.) b. After collecting all necessary information, Mentors are expected to offer guidance and counseling, as and when required. c. It is the practice of Mentors to meet students individually or in groups. d. In isolated cases parents are called for counseling/special meetings with the Principal at the suggestion of the Mentor. e. If a student is identified as having weakness in particular subject, it is the duty of the Mentor to apprise the concerned subject teacher. Significant improvement in the teacher student relationship can be seen. The system has been useful in identifying slow learners and advanced learners. Based on the requirement deduced through a careful examination of each Mentor's report, the College has organized several Remedial Classes in the identified topics/ subjects for slow learners. Targets achieved The Remedial Classes have been institutionalized after the implementation of the Mentoring System. Need Based remedial classes have proved to be beneficial to the students in particular and the entire college in general. The institutional practice of Mentoring System has considerably enhanced the campus environment and brought about: a. Enhanced contact hours between Mentors with their respective students b. Improvement in students' attendance records c. Minimised student dropout rates (apparently due to Mentors' intervention before a student falls short of attendance or has been regularly abstaining from classes) d. Identification of slow learners for conducting Remedial Classes

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3062	208	1:15

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
208	208	0	3	63

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.N.Duraipandian	Principal	Recipient of Dr.Abdul Kalam Eminent Leadership Award 2019 from Institution of Engineers (India), Thiruvallur Chapter - Institution of Engineers, Thiruvallur Chapter
2020	Mr.Gunasekaran Gopalan	Assistant Professor	Recognized as NPTEL Evangelist - Dec 2019 , for completing atleast 18 exams between 2016 and 2019, from NPTEL

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	101	1/I	11/01/2020	01/02/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
1240	3062	39

2.6 – Student Performance and Learning Outcomes

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

https://velammal.edu.in/wp-content/uploads/2022/08/2-6-1-2019-20-PO-PSOs-All-Department-COs.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
101	BE	Automobile Engineering	55	55	100
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2.7 – Student Satisfaction Survey

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

https://velammal.edu.in/wp-content/uploads/2022/08/2-7-1-2019-20-Exit-Survey-All-Departments.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr. S. Baskara Sethupathy
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher	Name of the award	Date of award	Awarding agency
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	awarded the fellowship			
Nil	NIL	NIL	Nil	NIL
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Students Research Projects (Other than compulsory by the University)	365	DST Newgen IEDC	289	60
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.1

3.3 – Innovation Ecosystem

3.3.1 – 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
Guest Lecture on Digital Marketing	Auto	18/09/2019
HECKLER-2K19	Civil	26/09/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	Nil	NIL
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science Engineering	6
Electricals and Electronics Engineering	1
Electronics and Communication Engineering	3

Information Technology	2
Mechanical Engineering	3
Physics	1
Chemistry	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Automobile Engineering	3	8.4
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Computer Science Engineering	8
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Solar hybrid desalination system	Published	E1/328442019	09/08/2019
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Comparative behavior of various nano additives in a DIESEL engine powered by novel Garciniagummi-gutta biodiesel	S. Janakiraman , T. Lakshmanan , V. Chandran, Lingesan Subramani	Journal of Cleaner Production	2020	42	Department of Automobile Engineering, Velammal Engineering College, Chennai.	44
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
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Environm ental Audio Scene and Sound Event Reco gnition for Autonomous Surveillan ce: A Survey and Comparativ e Studies	Chandrak ala S, Jay alakshmi S L	ACM Computing Surveys (CSUR)	2019	8	33	Velammal Engineerin g College
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Semi nars/Workshops	11	216	249	69
Presented papers	11	15	7	8
Resource persons	1	2	7	3

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
AUTO	Design of work holding devices	Diagonal CADD- Giri Enterprises	0
Civil	Material Testing	Unikans	10800
CSE	Mobile Application Development for DIOT Office Management Amount	DOIT	0
EEE	IoT based water Level Monitoring in Over Head Tanks	Ashok Leyland	0
EEE	Improving the life of Motor from 5 years to 10 Years	Preethi Kitchen Appliances Limited	0
EEE	Tool life measurement throuh IoT	Preethi Kitchen Appliances Limited	0
MECH	Replacement of polycover by suitable alternate materials for packing	Preethi Kitchen Appliances	0

MECH	Utilization of Manufacturing Lab Technology Lab	College of food nutrition and food technology	5760
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NIL	NIL	NIL	0	0
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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Yoga Day	NCC/NSS/YRC	4	100
Clean Campus and Save Water	YRC	1	25
Lake Cleaning	YRC with Lines Club	1	20
Leprosy Awareness Program	NSS/YRC	2	50
First Aid Awareness Program	YRC	1	50
Dengue Awareness Program	YRC	1	25
Mega Blood Donation Camp	YRC/NCC/NSS	3	250
Hope Charitable Visit	YRC	1	10
Corona Virus Awareness Program	YRC/NSS	2	50
Eye Dental Checkup Camp	NSS/NCC/YRC	3	150
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NIL	NIL	NIL	0
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3.6.3 – 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	Name of the activity	Number of teachers participated in such	Number of students participated in such
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	agency		activites	activites
Swachh Bharat	YRC with Lines Club	Lake Cleaning	1	20
Awareness Program	NSS/YRC	Leprosy Awareness Program	2	50
Awareness Program	YRC/NSS	Corona Virus Awareness Program	2	50
Awareness Program	YRC	First Aid Awareness Program	1	50
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research Project	Dr.A.Balaji Ganesh, Professor/CSE & Dr.Muthukumar, Senior Scientist, ICAR-Hyderabad	DST-TDT	550
Research Project	Dr.A.Balaji Ganesh, Professor/CSE & Dr.N.Magesh, Consultant Neurologist, Mahesh Neuro Centre, Chennai	DST-SEED	730
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Automobile-Production	Royal Enfield, Dino Motors, Thirumullaivoyal, Chennai-62	03/06/2019	15/06/2019	R.Adithiyan
Internship	Automobile-Production	Royal Enfield, Dino Motors, Thirumullaivoyal,	03/06/2019	15/06/2019	B.Jagan

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Diaganol CADD	23/10/2019	Internships, Projects Conducting Training Programs	60
Prolific Systmes and Technologies Pvt. Ltd., Chennai	24/07/2019	Impart Traning to Faculty and Students in the field of PLC, SCADA, Provide Placement assistance for Final year students and Project work	60

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
19	14.46

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
EASYLIB software	Fully	3.0	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text	72510	20226771	280	182718	72790	20409489

Books						
Reference Books	45788	1810000	15	10000	45803	1820000
e-Books	1550	100261	Nil	Nil	1550	100261
Journals	162	455689	Nil	Nil	162	455689
e-Journals	208	794145	Nil	13570	208	807715
Digital Database	274	50000	Nil	Nil	274	50000
CD & Video	3402	49600	Nil	Nil	3402	49600
Library Automation	1	173280	Nil	Nil	1	173280
Weeding (hard & soft)	56	21757	Nil	Nil	56	21757
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nil
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	850	650	850	0	0	50	150	100	0
Added	0	0	0	0	0	0	0	0	0
Total	850	650	850	0	0	50	150	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Media Center, Audio Visual Center and Lecture Capturing System	https://velammal.edu.in/wp-content/uploads/2022/07/4-3-3-Facility-for-e-content-development.pdf

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
72.97	40.38	399.6	296.6

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)

There are established systems and procedures for maintaining and utilizing physical, academic and support facilities such as laboratory, sports complex, computer, classroom etc. in the institute. The maintenance of physical, academic and support facilities are carried out by the respective departments with the help of in house staff on daily basis and periodically. And care has been taken to keep the equipments, machine etc. in working condition. In case of breakdowns standard procedure is followed to bring the equipment/machine in working condition. A supervisor is appointed to monitor and maintain the physical facilities and Housekeeping. A brief description is presented below on maintenance and utilization of some facilities. 1. Laboratories (All Labs Computer center): Each laboratory has one teacher as lab in-charge, a Lab Assistant and attendant. Lab in-charge is responsible to maintain and upgrade the laboratory with necessary equipment from time to time to cope with change in the syllabus. Dead stock verification (Physical Verification) is carried out to verify working/nonworking/missing equipment etc. Preventive maintenance and performance monitoring is carried out. Every laboratory assistance keeps the record of utilization of equipment, computers and other required material for experiments. 2. Library: Librarian with supporting staff has been appointed to maintain central library. They focus on the availability and utilization of instructional material in teaching and learning process. At end of the Academic year stock verification is done. Librarian will prepare the report on the same and utilization of books by the students and staff. Procurement of books as per the requirement is initiated through library committee by inviting the requirement of books from various departments this is then processed following the procurement procedure. 3. Sport complex/ground/equipment: Physical Director of the institute looks after the sports facilities and the activities. The sports equipment are issued to the students as per the schedule of the events. If any equipment get faulty sport director submits proposal for maintenance. Preventive maintenance measures are taken in time. Sport director is responsible for keeping the record of utilization of sport Facilities, activities held, awards for the students etc. 4. Class Rooms: Class rooms are allocated to all departments along with necessary ICT tools. The class rooms are utilized as per the time table of the department. The class rooms are cleaned on daily basis monitored by institute supervisor. Head of the institute, HODs and Class teachers also monitor the cleanliness and ensure that the cleanliness is maintained in the class rooms. 5. IT facilities: All departments in the institute are having PCs, essential software and peripherals .The laboratory technicians and system administrator maintain the IT facilities in the institute. In case of major issues of maintenance vendors are hired for maintenance of IT facilities. 6. Electrical, Drinking water coolers, Lift etc.: Institute has employed technicians(electrician and plumber) for up keeping and maintenance of electrical and water drinking facility. Institute has also appointed housekeeping staff to maintain the gardens.

<https://velammal.edu.in/wp-content/uploads/2022/07/4-4-2.pdf>

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	Staff ward Scheme	16	1143400
Financial Support from Other Sources			
a) National	BC/MBC/SC/ST/FG	2011	38388985
b) International	NIL	0	0
View File			

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
TECHNICAL TRAINING	05/06/2019	858	Six Phrase, Mr. Sasi Kumar , 9894462304
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	PRERANA SCHEME (GATE), GRE, TOEFL	97	920	54	644
View File					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	5

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
Infosys	527	92	HCL	15	5
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	54	B.E.	Computer science and Engineering, Mechanical Engineering, Information Technology, Electrical and Electronics, Electronics and Communication Engineering	University of Florida	M.S. Computer Science S

[View File](#)

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

Items	Number of students selected/ qualifying
GATE	5
GRE	11
Any Other	5
TOFEL	21
Any Other	12

[View File](#)

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

Activity	Level	Number of Participants
Badminton and Hockey	Zonal	240

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	GOLD	National	1	0	11321610 61115	SATHHYAP RIYA S

[View File](#)

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

Smooth conduction of college in all aspects are taking place through the following committees which are formed in Institution / Department /Class level.
1. CLASS REPRESENTATIVE Every class shall have Class representative (usually 1 boy and 1 girl) of the class concerned with the overall goal of improving the

teaching learning process by representing problems experienced by students/suggestions to improve the existing system to the persons concerned / class incharge /mentor / HoD /Principal. 2. CLASS COMMITTEE Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching learning process. The functions of the class committee include • Representing problems experienced by students in the class room and in the laboratories • The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution. • The class committee shall be constituted within the first week of each semester. • At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee • The Chairperson of the class committee may invite the Class adviser(s) and the Head of the Department to the class committee meeting. • The Head of the Institution may participate in any class committee of the institution. 3. Placement Coordinators To make the students part of placement activities, Each department Final year will have 2 student representatives (usually 1 boy and 1 girl) to coordinate the placement activities as and when required 4. Club coordinators -members To encourage students to enhance their skills for their overall development ,there are many clubs functioning in our college.Each club shall have Faculty coordinator to regulate and coordinate the activities and each department will have 2 student representatives (usually 1 boy and 1 girl).Faculty Coordinator will discuss with all members and the activities will be scheduled for a semester and with the help of student coordinators activities will be carried out and followed up. To name a few: • Coders cub • Innovators Club • Maths club • Literary club 4. NCC,NSS and YRC coordinators -members To enhance the student's overall personality development , and to inculcate the importance of social responsibility ,first year students are encouraged to participate in any one of these category (NCC (Navy and Army) ,NSS and YRC. Student coordinators - Seniors will guide the juniors .Our college has got one of the finest active NCC army and navy wings. Mentioned committees are few and there are various levels of participation of students are in place in the institute function.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Velammal Engineering College has got a very fine strength of Alumni who are pursuing their career worldwide. Alumni are always welcomed to college to share their views in pursuing higher studies or career and give suggestions for the betterment of their junior students. This provides an opportunity for the juniors to set right their goal. The alumni often visit the college during their available time and the need of the juniors institution to deliver Guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Through E Cell activities alumni who are entrepreneurs are invited to share their success stories at various occasions of the Institute. During placements alumni conducts GD and mock interview for shaping up the juniors to fair well in their placement process.

5.4.2 – No. of registered Alumni:

1014

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

5.4.4 – Meetings/activities organized by Alumni Association :

VELAMMAL ENGINEERING COLLEGE ALUMNI CONTRIBUTION -2019- 2020

S.No	Department	Name of the Alumni	Batch Name	Name of the Activity	Date of the event	BENEFICIARIES
1	EIE	Mr.A.M. Adil baig	2014	Webinar	20.06.2020	UG Students
2	EIE	Mr.Abdul Razziq	2014	Webinar	19.06.2020	UG Students
3	EIE	Mrs.Sakthi sevel	2011	Webinar	03.08.2021	UG Students
4	IT	Ms.Pavithra	2013	Webinar	04.05.2020	III year students
5	IT	Mr.ArunRaj	2010	Webinar	26.05.2020	External and Internal Faculties
6	IT	Mr.Vivek	2012	Seminar-First Year Orientation Program	07.08.2019	I year students
7	MBA	Ms.K.G.Latshumi	2014	Webinar	04.07.2020	UG Students
8	Automobile	Mr.Ganesh Pandiyan, Renault Nisson	2013-2017	Webinar	10.07.2020	VEC College Students
9	Automobile	Mr.Aswin Kugan.S, Ford	2012-2016	Webinar	01.12.2020	VEC College Students
10	EEE	Mr.Mageshnarayan	2004	Webinar	17.06.2019	IV Year EEE

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) Decentralization in working The management has given ample freedom for the Head of the Institution who works holistically for improving the efficiency and the quality of the institute through strategic planning for accomplishing the VISION and MISSION of the Institution. The controller of Examination (CoE), Dean (Research), HoDs, Library committee, Administrative officer (AO), Deputy wardens have been allocated with responsibilities to support with Principal's functionalities. Controller of Examination: To support the activities related to the preparation of academic schedule, conduction of Continuous Internal Examination, Semester End Examination, result publication and purchase related to CoE office with the support of internal exam cell coordinator, deputy controller of examination, Assistant controller of examination, system manager and office assistant. Dean (Research) To facilitate and promote quality research in the college by provide consultation regarding preparation of research proposal and potential funding, Provides and facilitates mentorship of research-active faculty, conducting meetings regarding research and development, entrepreneurship and innovation to support faculty members and students. Dean Research is supported with research coordinators form different departments. Head of the Departments: At department level, HOD's are empowered to plan, execute and delegate various academic transactions like subject allocation, course co-ordination, mentoring etc., to different faculty of the department. Library committee: One faculty member from each department take part in the library committee to plan and execute different activities related to the smooth functioning of library. The committee recommends the purchase of text books, journals and e-resources required for the library. Administrative officer: To facilitate different Maintenance activities in the college with the support of electrical and civil teams, ITES and housekeeping teams in order to support with Principal's functionalities. Deputy Wardens (Hostel) Support the day to day activities in the hostel by supporting allotment of rooms to the students, maintenance of the hostels, keep discipline among students of the hostels and looks into the grievances/complaints of the students (b) Grievance Redressal Committee Grievance Redressal committee has been set-up with the aim of providing women/student/faculty, an appropriate complain mechanism against unwelcome behavior whether directly or by implication. The committee addresses the grievance by sorting out the problems promptly and judiciously. As a result of this mechanism, the college has a pleasant, ambient, atmosphere and good work culture with an in built good will and mutual understanding among its

stakeholders. All are liberated to voice their grievance to their higher authorities. Types of Concern include ? Sexual Harassment ? Improper conduct or unethical behavior

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Research and Development	<ul style="list-style-type: none"> • Formulation of Research committees • Allocation of budget for in house R D <ul style="list-style-type: none"> • Incentives and rewards for publications / research • Financial assistance to students for fabricating working
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> • Regular updation of Library facilities, ICT and Physical infrastructure
Human Resource Management	<ul style="list-style-type: none"> • Transparent policy document • Transparent and scientific way of recruitment • Formulation and communication of policies of the college • Support for academic advancement • Systematic performance appraisal system and guidance to the people concerned • Systematic promotion policies • Democratic way of administration with participative management
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • Regularly organisation of industrial visits • Guest lectures by experts from industry
Admission of Students	<ul style="list-style-type: none"> • Through single window counselling conducted by Anna University, Chennai
Curriculum Development	<p>Board of Studies meetings are conducted every year with academic and industry experts evaluating the feedback of various state holders and inputs by the faculty and students. Department Academic Committee meetings are held to assess the Course outcome, Program Outcome and Program Educational Objectives.</p>
Teaching and Learning	<ul style="list-style-type: none"> • Provision of state of the art learning resources in Central library • Highly ventilating and hygienic classrooms • Development of student support material • Conduct of remedial / slow learners / toppers coaching classes • Delivery of add-on-courses • Conduct of preplacement training classes and campus connect programmes • Conduct of British English Language

	<ul style="list-style-type: none"> Certification courses Structured course files and lab manuals for all courses Continuous assessments and evaluation systems Academic audit Continuous improvement of resources
Examination and Evaluation	<ul style="list-style-type: none"> Properly structured and organized exam cell Two question paper setting pattern Evaluation and result analysis Retest conduction if required

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

E-governance area	Details
Planning and Development	ERP, Educational Automation Software Pvt Ltd
Administration	ERP, Educational Automation Software Pvt Ltd
Finance and Accounts	ERP, Educational Automation Software Pvt Ltd
Student Admission and Support	ERP, Educational Automation Software Pvt Ltd
Examination	Rovan EMS Software (for conduction and result processing)

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr.Duraipandian	NIL	Computer Society of India Institute Membership	7080
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Tips for clearing patent Agent exam	NIL	06/05/2020	07/05/2020	240	0
2020	Effective project	NIL	18/05/2020	19/05/2020	510	0

	proposal writing					
2019	NIL	One Day Hands-on Session on Personal Computer Troubleshooting	14/12/2019	Nil	0	16
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Faculty Awareness Program on NAAC Accreditation	17	10/05/2020	15/05/2020	6
Evolution of Teaching Learning Process - Post COVID 19	11	11/05/2020	15/05/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
208	208	204	204

6.3.5 – Welfare schemes for

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

6.4 – Financial Management and Resource Mobilization

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

Being an affiliated institute there is no financial support from the state government for the development of the institute. Tuition Fee is the main source of income for the organization. The institute has got adequate financial resources in the form of fee collected from the students to meet effectively the annual maintenance and development expenditures of the college. The Tuition

Fee is collected from the students through the administrative department and deposited in a unique bank account. This bank account is made to have a structural transaction in a hierarchical model with the support of the Financial Advisor and CEO of the trust. The same is used for the various administrative and academic expenses. The institution provides additional facilities like hostel, transport, food etc. and the respective fee collected are used for the expenses under appropriate head. Other than the regular fees through the technical skills of the faculty and students various sponsored programmes, testing / consultancy industry assignments and research centre/ resource establishment are carried out to strengthen the research infrastructure of the institute. A yearly budget is prepared strategically with the composition of pay allowances, recurring nonrecurring expenses and regular maintenance establishment expenses. This estimated budget is well monitored periodically and the account statement is prepared at the end of the academic year. This annual account statement is duly audited by the chartered accountant.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	3033536	College Maintenance
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6.4.3 – Total corpus fund generated

3033536

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	ISO	Yes	MR
Administrative	Yes	ISO	Yes	MR

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

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

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

Lab Instructors are asked to attend workshops in recent technology for upgradation of new skills.

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

1. Autonomous Status - Curriculum design and development with the approval of Board of studies and Academic Council, 2.Established office of Controller of Examination to conduct internal and End Semester Examination. 3. More number of faculty members involved in Research and Development 4. Created awareness about innovation and entrepreneurship among students and faculty members

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes

c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Goal Oriented Activity review and audit	03/06/2019	08/07/2019	22/10/2019	45
2019	Participation in NIRF ranking	03/06/2019	17/07/2019	08/08/2019	25
2019	Autonomous Curriculum and syllabus framing standard procedures	03/06/2019	10/07/2019	09/08/2019	30
2019	Management Review meeting Quality surveillance audit	03/06/2019	10/07/2019	10/07/2019	20
2019	Workshop on Art of Writing Research Project Proposal	21/11/2019	21/11/2019	22/11/2019	51
2019	Workshop on Intellectual Property Rights	03/06/2019	14/11/2019	15/11/2019	34
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender issues	26/08/2019	30/08/2019	174	349

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

Percentage of power requirement of the University met by the renewable energy sources
1. Solar energy Based on the various conductive implemented by both state and

central Govt policies as a promotional measures of enhancing the installed capacity of the Solar Power plants across T.N. M/s. Velammal Educational trust established a 10 MW Solar P.N power plant at Manjalkudi Village Tiruppuvanam Taluk, Sivagangai District. The plant was commissioned on 19.03.2019, 2. Biogas plant NIL 3. Wheeling to the Grid Solar Power Plant H.T.S.C No 059474600159 of Sivaganga EDC Captive Wheeling. The trust has entered into Energy wheeling agreements with TANGEDCO on 01.03.2019 for wheeling of power to captive users and for sale of surplus energy to TANGEDCO. 4. Sensor-based energy conservation A solar PV powered facility is established in renewable energy lab for study purpose and energy conservation 5. Use of LED bulbs/ power-efficient equipment The old florescent lamps were replaced by LED blubs during maintenance at regular interval by electrical maintenance and engineering services department.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	2
Physical facilities	Yes	2
Provision for lift	Yes	2
Rest Rooms	Yes	2
Scribes for examination	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	08/06/2019	1	Drug Abuse and Illicit Trafficking	Health for Justice, Justice for Health	156
2019	1	1	22/03/2019	1	awareness of conserving the water	awareness of conserving the water	143
2019	1	1	18/02/2019	1	Blood Donation and Eye Check Up Camp	Blood Donation and Eye Check up	180
2019	1	1	12/03/2019	1	Election Awareness	Election Awareness	112
2019	1	1	06/09/2019	1	National Nutrition Week	11 Nutrition	121

2019	1	1	06/08/2019	1	Awareness to keep our surroundings clean.	Clean campus and save water	25
2019	1	1	11/08/2019	1	Awareness to keep our surrounding clean	Lake cleanin	20
2019	1	1	14/10/2019	5	Supplied Nilavembu Kashayam to all pupil.	Dengue awareness	25
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of ethics policy	03/06/2019	objectives, scope, policy process

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Universal Human Values	26/08/2019	30/08/2019	650
View File			

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

• **SOLID WASTE MANAGEMENT** There are dustbins placed at specific points to prevent littering in the campus. Dry leaves are allowed to degrade over time in order to be used as manure in the institutes gardens. In the Ladies Hostel, separate containers are provided to separate napkins from other rubbish. Campus Solid Waste Management program is implemented to segregate organic waste, paper, paper cups, soft drink tins, plastic, pet bottles, e-waste, bio waste, etc. Solid trash is separated into biodegradable and non-biodegradable categories and sent to the appropriate authorities. Dry trash collection containers are provided for each block and each floor, and rubbish is collected daily and sent to the local municipal authority.

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

• **E-WASTE MANAGEMENT** E-waste approach has gained proper attention, and all electronic items are put to the best possible use. Minor repairs are performed by the staff and Laboratory assistants to correct the equipment, and major repairs are performed by expert technicians and reused. Electronic waste items are taken care by the Institute. Every academic year, obsolete electronic devices such as monitors, computers, batteries, and other items are separated and sold as scrap.

• **WASTE RECYCLING SYSTEM** The wastewater from the restrooms and toilets are collected and this

collecting system makes sewage treatment and disposal more efficient and effective. The treated water is used in the garden.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

PROJECT BASED LEARNING Project-based learning involves students in designing, developing, and constructing hands-on solutions to a problem. It aims to build students' creative capacity to work through difficult or ill-structured problems, commonly in small teams. Project-based learning helps students learn to work effectively, communicate effectively in oral, written, and visual forms to a variety of audiences and challenges students to draw on a range of knowledge and skills in innovative ways. We at VEC continuously encourage the students to participate in programmes like BAJASUPRA. **RESEARCH -NewGen IEDC** NewGen IEDC aims to inculcate the spirit of innovation and entrepreneurship amongst the students, encourage and support start-up creation through guidance, mentorship support. Students are encouraged to take up innovative projects with possibility of commercialization. A maximum of twenty new projects would be supported in a year. The projects are students' projects with a high degree of innovation and commercial viability to lead to possible startup by students. This helps to foster culture of entrepreneurship amongst students.

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

<https://velammal.edu.in/wp-content/uploads/2022/07/VEC-Best-Practices-final.pdf>

7.3 – Institutional Distinctiveness

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

VelammalEngineering College has created a distinct segment for itself as a pioneer in quality initiatives to promote world-class knowledge, national consciousness, global competencies, social responsibilities and humane values. The institution admits students from all sections of the society and offers holistic education. Value-based education, being its priority, VEC has received a large recognition among parents and academia as the most trusted name for integrated/holistic development of students. The Institute with its distinctive approach has a very well governance structure and administrative mechanisms to ensure quick implementation of programmes clearly laid out for the purpose. Over the years, the Institution has created and organized a number of outreach programmes that have impacted the social lives of students and staff members. The programmes emphasize the importance of organising various educational and awareness programmes to help students become self-reliant, skilled, and enthusiastic in order to confidently complete their tasks and face the challenges of a rapidly changing world, such as striving for academic excellence in learning and creative practical thinking. New Gen IEDC of VEC aims to inculcate the spirit of innovation and entrepreneurship amongst the students, encourage and support start-up creation through guidance, mentorship support. Students are encouraged to take up innovative projects with possibility of commercialization. A maximum of twenty new projects would be supported in a year. The projects are students' projects with a high degree of innovation and commercial viability to lead to possible startup by students. This helps to foster culture of entrepreneurship amongst students. Students who are having difficulty meeting academic milestones are given extra help in the form of remedial classes, regular mentorship for all students, and counseling for those who require it. The college used to offer Bridge courses for new students, Soft skills training for UG and PG students to aid in self-discovery, career planning, and interview preparation, and an internship programme for

both UG and PG students allow them to learn the ins outs of jobs in a real-world work environment. Value education and professional ethics courses were conducted to enlighten the young minds about the importance of practicing moral and ethical values in personal, professional, and social settings. These initiatives have contributed to the establishment of an Organisational culture that is distinctly its own, one that energises all of the colleges activities and binds stakeholders together into one educative community that serves the society. This distinctiveness has created an extraordinary campus which is blessed with well deserving students, faculty members and a concerned management. Faculty members tirelessly push their graduates to be intellectually competent, spiritually inspired through social activities, and bound to leave their mark wherever they go.

Provide the weblink of the institution

<https://velammal.edu.in/wp-content/uploads/2022/07/VEC-Institutional-Distinctivenss.pdf>

8.Future Plans of Actions for Next Academic Year

Enhancement of quality research in journals like SCI, Scopus indexed and UGC listed and industrial collaborations by signing MOU's. Enhance the teaching learning process with the utilization of ICT in teaching. Inspire encourage more staff members to participate in applying and getting more funded projects and consultancy work. Enhance the skill sets of students by conducting value added courses and encourage more students to involve in research related activities and to inculcate startup culture among students this helps to improve the number of startups within the incubation cell. Improve the NIRF ranking of the institution and sustaining NBA accreditation. Engage in training for competitive examinations and inspiring students to try for higher studies and participate in smart India Hackathon and design competitions. Arranging placement training for the students and getting them placed in core companies others with a mean salary of 5 lakhs and above.