



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr. M. JAYARAMAN
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04242244201
Mobile no.	9750924402
Registered Email	principal@velalarengg.ac.in
Alternate Email	iqacvcet@gmail.com
Address	Perundurai Main Road, Thindal
City/Town	Erode
State/UT	Tamil Nadu
Pincode	638012

2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)			27-May-2016																
Type of Institution			Co-education																
Location			Rural																
Financial Status			Self financed																
Name of the IQAC co-ordinator/Director			Dr. R. KUMARAVELAN																
Phone no/Alternate Phone no.			04242244202																
Mobile no.			9443563481																
Registered Email			rkumaravelan@gmail.com																
Alternate Email			iqacvcet@gmail.com																
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)			https://velalarengg.ac.in/vccoe/naac.html																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			https://velalarengg.ac.in/vccoe/calenda.html																
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.11</td> <td>2014</td> <td>10-Dec-2014</td> <td>31-Dec-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.11	2014	10-Dec-2014	31-Dec-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.11	2014	10-Dec-2014	31-Dec-2021														
6. Date of Establishment of IQAC			18-Nov-2013																
7. Internal Quality Assurance System																			
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries								
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FDP on Acharya Devo Bhava by K.A.Gautham, ABLE Training	24-Jun-2019 2	67
Lecture on Electric Vehicle Controller, by Mr.K.Vanchinathan AP(Sr.Gr)/EEE	18-Oct-2019 1	125
Lecture on Recent Trends in Diagnostic Equipments and point of care Technology by Mr.N.N.Baalakumar AP(Sr.Gr)/BME	18-Oct-2019 1	137
Faculty Refresher Programme by Dr.M.Jararaman, Principal and Prof.L.Peter Stanley Bebington, Dean (A)	14-Nov-2019 2	142
Revised Assessment and Accreditation Framework of NAAC - An Approach by Dr. R. Kumaravelan Coordinator	30-Jan-2020 2	207

L::asset('/', 'public').'/public/index.php/admin/get_file?file_path='.encrypt('Postacc/Special_Status/'. \$instdata->upload_special_status))}

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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
NIL	NIL	NIL	2020 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View Link](#)

10. Number of IQAC meetings held during the year :

4

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 Uploaded File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
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12. Significant contributions made by IQAC during the current year(maximum five bullets)

Introduction of Fast track system - One third of students opted for Fast track system and completed the courses to be completed in eighth semester during their sixth / seventh semester also through SWAYAM-NPTEL courses. This helps them to undergo three months internship in industries and made them as Job ready / Industry ready Engineers
Received Rs. 12.43 Lakhs from AICTE and 7.88 Lakhs from funding agencies like TNSCST, CSIR, ICMR etc.,
Institute Innovation Cell (IIC) conducted 52 programmes and rated 3.5 stars out of 5 for its effective performance and participation
Introduced various online tools including zoom, Google Meet, Ciscowebex for effective Teaching and Learning. Also Introduced "EXAMLY" software for Training and Placement related tests and activities

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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
Quality Publication (By Faculty members)	114 papers were published in reputed Journals, and 153 papers were presented in Conferences
Encouraging students to participate in the International events	Constant motivation and awareness about the opportunities were thrown upon the students for improvements
Digital platform for placement practice tests	Introduced "EXAMLY" software for Training and Placement related tests and activities.
Implementation of AICTE initiatives.	Implemented. Various programmes were organised as per the directions of AICTE.
Implementation of Learning through Online Tools	Various online tools including zoom, Googlemeet, Ciscowebex were introduced for effective Teaching and Learning.
Industry Oriented curriculum and syllabi with more flexibility (R 2018).	Introduced 5% of courses as Industry Oriented courses. R 2018 Curriculum was revised with possible flexibility and adhering the norms of AICTE model curriculum.
Creation of Institute Innovation	IIC was established in the year 2018-19

Council	itself. During 2019-20 FOUR of our faculty members attended Innovation Ambassador Training series, VCET was rated 3.5 stars out of 5 for its effective performance and participation. Total number of programmes conducted through IIC = 52.
Collaboration with institution and industries to be strengthened.	No. of MoUs signed with industries during 201920 is 12 Total No. of MoUs signed with industries upto 201920 is 34. More industries have been identified to improve collaboration activities.
Start the preparatory work to obtain NBA Accreditation under Tier - I.	Preparatory work for NBA under Tier-I format was started.
To obtain 12(B) status from UGC.	In progress
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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <tr> <td>Name of Statutory Body</td> <td>Meeting Date</td> </tr> <tr> <td>Management, IQAC</td> <td>02-Jul-2020</td> </tr> </table>		Name of Statutory Body	Meeting Date	Management, IQAC	02-Jul-2020
Name of Statutory Body	Meeting Date				
Management, IQAC	02-Jul-2020				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	01-Oct-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>ABOUT OLYMPUS DIGITAL CAMPUS Olympus Digital Campus is an end to end cloud based solution by Great Learning. It is a seamless and well integrated solution. It has the following modules</p> <p>1. Smart Time Table This feature will help the college plan the entire academic year, plan and publish timetables for online and classroom sessions in addition to assessments and proctored exams. Once scheduled, unique online session links will be created for faculty and students to join these</p>				

sessions and made available on the faculty and student dashboard. Faculty and students can join with a single click and once the sessions are completed, faculty feedback will be captured and made available. In addition, session recordings will be made available to students in their dashboard.

2. Live Sessions This feature allows faculty to conduct live classes (with options for polling and break out rooms) for upto 1000 participants. Prior to the session, automated email with Session Link is sent to all students and faculty conducting the session. These are password protected and external users cannot join. Any number sessions can be scheduled for a day and students are uniquely tagged so as to automatically capture attendance and marks can be allocated.

3. Automatic Attendance This feature will provide you with the student attendance data for online and offline classes. Attendance is automatically captured, with student wise and session wise reports available in the dashboard for faculty and administrators.

4. Proctored Examinations This feature allows for the scheduling and planning proctored examination on a desired date. Automated email with a unique Exam Link is sent for every candidate. Students have to attempt the exam in an environment where they are not allowed to move tabs or switch screens or copy and paste (preventing cheating and plagiarizing). In addition, the system captures the Video and Audio of learners while taking the exam, which can be viewed while the student is taking the exam or later for identity verification. Exams can be auto evaluated.

5. Student Feedback This feature will provide feedback for faculty and content. Feedback will be automatically collected after every session and can be configured to be triggered at appropriate semester intervals. Feedback questions can be customized and detailed qualitative and quantitative information will be available. This can be downloaded for further analysis.

6. Student Engagement Analytics This feature will allow you to track in detail every student's engagement and interaction with the

entire online and remote learning experience. Learner Engagement• o Online session attendance o Each video watched in minutes o Total count of videos watched o Learning material accessed coursewise o Total assessment submissions o Recent online session missed o Low feedback rating o Recent assessment missed o Overall attendance o Individual discussions with students can be tracked date wise and stored Grades• Marks o This feature will allow you to track the grades and marks for each student and for all courses.

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	BM	Biomedical Engineering	25/05/2019
BE	CE	Civil Engineering	18/05/2019
BE	CS	Computer Science and Engineering	18/05/2019
BE	EC	Electronics and Communication Engineering	18/05/2019
BE	EE	Electrical and Electronics Engineering	25/05/2019
BTech	IT	Information Technology	18/05/2019
BE	ME	Mechanical Engineering	18/05/2019
MBA	MS	Master of Business Administration	18/05/2019
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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	Electrical and Electronics Engineering	25/05/2019	18EE004 - Energy Auditing and Conservation	25/05/2019
BTech	Information Technology	18/05/2019	18MCT05- Aptitude and	18/05/2019

			Logical Reasoning	
BE	Mechanical Engineering	18/05/2019	18MEO04-Entrepreneurship Development	18/05/2019
MBA	Master of Business Administration	18/05/2019	18MST41- Entrepreneurship Development	18/05/2019
MCA	Master of Computer Applications	18/05/2019	16ENL32 - Communication and Soft Skills Laboratory	18/05/2019
BE	Biomedical Engineering	25/05/2019	18CST13- Python Programming	25/05/2019
BE	Civil Engineering	18/05/2019	18CE143 - Survey Camp	18/05/2019
BE	Computer Science and Engineering	18/05/2019	18MCT03- Essential English for Professionals	18/05/2019
BE	Electronics and Communication Engineering	18/05/2019	18MCT03 - Essential English For Professionals	18/05/2019
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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	18/05/2019
BTech	Information Technology	18/05/2019
BE	Electronics and Communication Engineering	18/05/2019
BE	Computer Science and Engineering	18/05/2019
BE	Civil Engineering	18/05/2019
BE	Biomedical Engineering	25/05/2019
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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
BE	Biomedical Engineering	01/07/2019
BE	Civil Engineering	01/07/2019
BE	Computer Science and Engineering	01/07/2019

BE	Electronics and Communication Engineering	01/07/2019
BE	Electrical and Electronics Engineering	01/07/2019
BTech	Information Technology	01/07/2019
BE	Mechanical Engineering	01/07/2019
BE	Medical Electronics	01/07/2019
MBA	Master of Business Administration	01/07/2019
MCA	Master of Computer Applications	01/07/2019

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
LABVIEW for beginners	21/05/2020	108
International codes of practice in Civil and Structural Engineering	28/08/2019	16
Online Value-added course on Electronic Circuit Simulation- Proteus: One tool for all	14/05/2020	160
Value Added Course on AutoCAD -Electrical	24/09/2019	64
Smart Mobile Technology – Maintenance and Service	28/02/2020	107
Personality Development “Personal Professional Grooming” Training Programme	04/12/2019	59
Motivational Workshop	06/01/2020	95
BOT Unleashed - Robotic Process Automation Skills	29/01/2020	135
Introduction to AutoCAD Software	08/02/2020	65
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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	Biomedical Engineering	470
BE	Civil Engineering	134
BE	Computer Science and Engineering	137
BE	Electronics and Communication Engineering	427

BE	Electrical and Electronics Engineering	47
BTech	Information Technology	58
BE	Medical Electronics	18
BE	Mechanical Engineering	85
MBA	Master of Business Administration	97
MCA	Master of Computer Applications	19
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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
<p>The Institute is constantly in dialogue with all its stake holders and seeks advice and input from industry leaders, in order to provide value education to the students. The following feedback is obtained from the stakeholders:</p> <ul style="list-style-type: none"> • A feedback to evaluate the facilities provided by the institution and the ambience provided for student centric learning is obtained at the end of the program every year from the outgoing final year students. The results are analysed, corrective and preventive actions are initiated to overcome any flaw/s indicated by the said feedback • Institute receives feedback from the student every semester. The student's gives feedback for all the theory and practical courses taught to them in the semester along with the feedback about the faculty members. The general assessment points of the feedback is based on the syllabus, adequacy of syllabus, assessment of answer books, satisfaction about teaching methodology, teacher's approachability towards students, teacher's ability to teach subject and control the class, syllabus coverage, organisation of lectures, use of modern tools of Pedagogy etc. on a grade of 10 scale with number 10 meaning excellent and zero meaning poor performance. • The Employers feedback highlights evaluation parameters in the form of subject knowledge, attitude, behaviour, regularity, punctuality, maturity, motivation, creativity, presentation skills and ability to get along with others. The analysis of this feedback helps institute in reframing the course content and various skill development training. It also helps in determining overall employability of our students at various levels • Feedbacks are also obtained from alumni towards their possible contribution to curriculum development/curriculum enlargement/enrichment, to support our students in employment and creating an awareness of expectations of the industry in fresh graduates. • Feedback are collected from the parents during Parent Teacher Meetings (PTMs) that are organised by each and every department of the college. Suggestions and comments given by them are also taken into account for future development. The received feedback is then analyzed by the IQAC and it is also forwarded to the Management with necessary suggestions based on the feedback.

Feedback is also collected from academic experts, industrial experts, Alumni as well as students about the curriculum and syllabi to bridge the gap between industry and academia. The feedback of the same is taken with utmost care for incorporating changes in the syllabi/curriculum.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Biomedical Engineering	120	80	87
BE	Civil Engineering	60	30	30
BE	Computer Science and Engineering	120	115	125
BE	Electronics and Communication Engineering	180	135	155
BE	Electrical and Electronics Engineering	120	85	77
BTech	Information Technology	120	110	125
MBA	Master of Business Administration	60	65	54
MCA	Master of Computer Applications	60	40	33
BE	Mechanical Engineering	120	77	66
BE	Medical Electronics	60	50	43

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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	3081	196	127	15	82

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
224	224	12	40	40	11
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)

Mentor System is a powerful personal and career development tool that can enable the Mentee to achieve or exceed their life's goals and aspirations. It aims at strengthening the dynamics of caring, sharing and learning – knowledge, skills, attitudes, academic heights, personal growth and professionalism of the Mentees. Quality mentoring greatly enhances students' chances of success. Under Mentor system, the full-time teachers of the college are the mentors. A mentor was provided to every ward to monitor his/her academic performance and psychological wellbeing, along with class attendance. The Mentors also promote the students' primary psychological counseling and professional counseling. At the commencement of the academic session, the mentors conduct orientation programmes for the mentees, whereby they are acquainted with the institution, its goals and mission, the facilities available and the regulations of the affiliating university. Mentoring is a learning partnership and about building relationships. The programme is conducted to help the students to strengthen their varied capabilities and to build an interpersonal relationship between the teachers and students. Mentors and the students develop their relationships as they participate together in social, cultural and recreational activities, community service projects, tutoring or any of the many different activities that they engage with. Mentoring programme is conducted at two levels: group and personal. All mentors conduct group level interviews and personal level interviews periodically. Assessment of the students is the confidential data sheet maintained by the mentors. Mentor helps their Mentees to make difficult change from childhood to adolescence. This time of transition is especially important, because it is the time of making decisions. Thus, The Mentor is both a role model and a guide who extends moral support to the mentees in their challenging transition period. Mentoring improves social skills of the Mentees. It really can make a difference in students. It makes students better leaders by enabling them to relate to different kinds of people and situations. It also helps the students to develop strong communication skills so they can handle any situations with self confidence and high self esteem. It offers an opportunity for the students to be the responsible role-models and develop positive citizenship. Mentoring also improves problem solving strategies and social responsibility. Mentoring enhances students' confidence and offers challenges to set higher goals. Mentor system favours the Mentees with varied fruitful experiences like gaining practical advice, encouragement and support, learning from the experiences of others, making new friends, receiving additional parental care, identifying the strengths and weaknesses, discover the goals and to establish a sense of direction and dealing with personal and academic issues. Thus, the mentor system exists as a robust informal mechanism to boost inclusiveness, gender sensitivity and social responsibility of students. This is a process that extends beyond the transmission of subject matter, maneuvering of systems or provision of support. Mentoring is a transforming relationship in which the Mentor is actively invested in and aware of the responsibilities of shaping the students' future in this competitive scenario

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3277	224	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
19	19	0	19	55

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,	Designation	Name of the award, fellowship, received from Government or recognized
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	international level		bodies
2019	Dr.M.Jayaraman	Principal	Special Award
2019	Dr.K.R.Valluvan	Professor	Best Engineer Award
2019	Dr.V.Srinivasan	Professor	Best Paper Award
2019	Ms.M. Aruna	Associate Professor	Best Paper Award
2019	Mr.D.Sakthivel	Associate Professor	First Rank
2019	Mr.S.Ramesh Kumar	Associate Professor	First Rank
2019	Dr.N Jeyashanthi	Professor	Elite with Silver certification
2019	Dr E Ravi	Professor	Elite certification
2019	Dr.S.Sadesh	Associate Professor	Elite with Silver certification
2019	Rajan S	Associate Professor	Elite certification
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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
MCA	CA	EVEN	30/09/2020	30/10/2020
MBA	MS	EVEN	30/09/2020	30/10/2020
BTech	IT	EVEN	30/09/2020	30/10/2020
BE	ME	EVEN	30/09/2020	30/10/2020
BE	MD	EVEN	30/09/2020	30/10/2020
BE	EE	ODD	08/01/2020	01/02/2020
BE	EC	ODD	08/01/2020	01/02/2020
BE	CS	ODD	08/01/2020	01/02/2020
BE	CE	ODD	08/01/2020	01/02/2020
BE	BM	ODD	08/01/2020	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
0	3725	0

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://velalarengg.ac.in/vccoe/allpos.html>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BM	BE	Biomedical Engineering	106	95	90
CS	BE	Computer Science and Engineering	111	93	84
EC	BE	Electronics and Communication Engineering	149	138	93
EE	BE	Electrical and Electronics Engineering	100	79	79
IT	BTech	Information Technology	102	91	89
ME	BE	Mechanical Engineering	121	103	85
MS	MBA	Master of Business Administration	56	54	96
CA	MCA	Master of Computer Applications	31	29	94
CP	ME	Computer Science and Engineering	10	10	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://velalarengg.ac.in/pdf/Student%20Satisfaction%20Survey.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

No

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	NIL	NIL	31/05/2020	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
Any Other (Specify)	1	CSIR	0.2	0.2
Any Other (Specify)	1	DST-NIMAT	0.6	0.6
Any Other (Specify)	1	CSIR	0.22	0.22
Any Other (Specify)	7	AICTE	3.7	3.7
Students Research Projects (Other than compulsory by the University)	1	TNSCST	0.08	0.08
Any Other (Specify)	7	AICTE	3.37	3.37
Any Other (Specify)	7	AICTE	3.2	3.2
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

2

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
Recent Trends in Biomedical Equipment	Biomedical Engineering	14/08/2019
Hands on Training on Biomedical Equipment	Biomedical Engineering	13/01/2020
Introduction to AutoCAD Software	Civil Engineering	24/02/2020
Urban Water Management Scenario: Issues and Challenges	Civil Engineering	14/02/2020
CISCO – CCNA Routing	Computer Science and	02/08/2019

and switching	Engineering	
Multimedia Animation	Computer Science and Engineering	09/08/2019
A Seminar on An Overview of Embedded Systems	Electronics and Communication Engineering	17/08/2019
One Day National Level Research Seminar on Wireless and Optical Network System Design	Electronics and Communication Engineering	31/08/2019
Challenges and Opportunities for Management Students	Master of Business Administration	17/09/2019
Workshop on "Advancements in welding Technology"	Mechanical Engineering	26/07/2019
Webinar on "The Future of Skills - Education, Employment Entrepreneurship"	Mechanical Engineering	11/05/2020
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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
Internet of Things based Home Automation using Google Voice Assistant	Sathiya Sivam K K, Sharmila S, Tamilarasan S, Vinodhini M, Yazhini T	Velalar College of Engineering and Technology	14/03/2020	Ist Best Project in College level Dept. level I prize in Project Exhibition
Zigbee based forest information system using Solar	Jeevanatham R Manikandan M Sashvathan K I	Velalar College of Engineering and Technology	14/03/2020	IIIrd Best Project in College level Dept. level I prize in Project Exhibition
Air Free Route	S. Hariharan, III CSE K. R. Dhanush, III CSE N. Apitha, III CSE	Velalar College of Engineering and Technology	14/03/2020	IInd Best Project in College level Dept. level I prize in Project Exhibition
Foldable Structure	Selvasiddharth S Rishiyaswanth S Gokul S Hariharan E Dhinakaran G	Velalar College of Engineering and Technology	14/03/2020	Dept. level I prize in Project Exhibition
Rain Detector	Aravindraaj M,	Velalar	14/03/2020	Dept. level I

	Jeeva A, Imran M	College of Engineering and Technology		prize in Project Exhibition
Feature Selection for Share market Dataset using Entropy and Information Gain	Dr.V.Srinivasan, Ms.M. Aruna	National Conference on Intelligent Learning and Computing at Ssi Krishna Arts and Science College, Coimbatore	13/02/2019	Best Paper Award
Low Cost Sanitary Napkin Incinerator for Rural and Semi Urban Educational Institutions	Dr.K.R.Valluvan, Shrruthy B S, Ramya C, Ragavi K, Swetha S	TNSCST	18/03/2020	Student Project Scheme
Best Engineer Award	Dr.K.R.Valluvan	The Institution of Engineers at Erode on Engineer's day	19/10/2019	Best Engineer Award
Highest Membership Enrollment	Dr.M.Jayaraman	The Institution of Engineers at Erode on Engineer's day	19/10/2019	Special Award for the Highest Membership Enrollment between Oct 2018 - Sep 2019
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	VCET Innovation Cell	Ministry of Human Resource Development (MHRD), Govt. of India	MHRD's Innovation Cell (MIC)	To systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs).	01/07/2019
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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 and Engineering	2
Electronics and Communication	3

Engineering	
Information Technology	3
Master of Business Administration	1
Mechanical Engineering	1
Department of Physics	1

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	Biomedical Engineering	9	3.02
International	Computer Science and Engineering	3	2.06
International	Electronics and Communication Engineering	6	0.95
International	Electrical and Electronics Engineering	4	0.52
International	Master of Business Administration	9	2.87
International	Mechanical Engineering	12	2.39
International	Medical Electronics	6	2.69
International	Mathematics	1	2.34
International	Physics	2	1.39
International	Chemistry	1	1.93

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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
Biomedical Engineering	13
Civil Engineering	13
Computer Science and Engineering	39
Electronics and Communication Engineering	68
Information Technology	14
Physics	5
Chemistry	2
English	7

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
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Dr.S.Jabeen Begum was granted a patent on Staggered Short Transmission (SST) Protocol for Routing during Energy Saving through WSN	Published	2020103027	09/12/2020
Ms.K.Vijaya was granted a patent on Secure communication among Iot Devices through IoT Coin Operation System	Published	2020102441	28/10/2020
Dr.S.Sadesh Dr.S.Gokulraj published a patent on Methane gas measuring device in food waste using Raspberry pi, MQ-4 sensor	Published	202041036326	04/09/2020
Patent on System to Facilitate Visually Impaired Person to Identify Person Present in Surrounding by Dr.P.Kanmani, Dr.Prabha Selvaraja, Dr.B.G.Geetha, Dr.Vijay Kumar Burugari, Dr.Singaravelan, Ms.P.Saranya, Dr.N.Yuvaraj, Dr.J.Santhosh, Mrs.S.Savitha, Dr.M.Pravinkumar	Published	201941050087A	13/12/2019
Patent on Smart Walking Stick for Sightless people by Dr.M.Abdullah Dr.M.Kalamani Mr.S.P.Prakash Mr.L.Rajasekar Dr.M .Krishnnamoorthi Dr.S.Kirubakaran Dr.S.Karthick C.Raju	Published	202041032056	07/08/2020
Patent for Recommendation of doctors based on the ratings and	Published	202041057559	31/12/2020

tracking status of doctors availability to handle the pandemic situations by Ms.S.Vishnuppriya, Ms.S.Ponni, Ms.S.Nithya			
Patent on Cloud computing based e-learning platform by Dr.V.Latha Jothi, Dr.S.Kayalvili, Ms.D.Lavanya and Ms.S.Subathra	Published	202041055413	25/12/2020
Patent on Harvesting Machine for Tapioca Vegetables by Dr.C.Gokul	Filed	202041012787 A	24/03/2020
Patent on System to facilitate visually impaired person to identify person present in surrounding by Dr.M.Pravinkumar	Published	201941050087	13/12/2019
Patent on A Novel Multiple Access Edge Computing Technique for Ultra-Reliable Low-Latency Communication (URLLC), and Massive Internet of Things (IoT) in 5G Networks by Dr.V.Chandrasekaran	Published	202041014796	15/05/2020
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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
High precision SAR ADC using CNTFET for Internet of Things	Mr.V.Gowrishankar Dr.K.Venkatachalam	Computers, Materials and Continua	2019	5	Velalar College of Engineering and Technology	0

Low Power Radiation Aware Transistor Level Design using Tri-State Inverter Embedded Non-Clock Gating Technique	Mr.R.S.K amalakanna n Dr.K.Ven katachalam	IET Circuits, Devices and Systems	2019	5	Velalar College of Engineerin g and Technology	0
Secured Ant Colony Optimization based on Energy Trust System for Replica Node Attack Detection	Dr.V.Cha ndrasekara n	Internat ional Journal on Emerging T echnologie s	2020	1	Velalar College of Engineerin g and Technology	1
An Analyzing of Cross Layer Design for Implementing Adaptive Antenna Technique in Mobile Ad-Hoc Networks	Dr.S.Mah endrakumar Dr.T.Gunas ekar	Journal of Testing and Evaluation	2019	4	Velalar College of Engineerin g and Technology	1
Design and Implementation of Cascaded H-Bridge Multilevel Inverter using FPGA with Multiple Carrier Phase Disposition Modulation Scheme	Dr.K.R.V alluvan Ms .S.Chitra	Micropro cessors and Micros ystems	2020	5	Velalar College of Engineerin g and Technology	2

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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
Experimental Investigation of Stress Concentration in Cross Section of Crane Hook	Dr.S Velumani	International Journal of Trend in Scientific Research and Development	2020	5	80	Velalar College of Engineering and Technology
Analysis of Elastic and Elasto-Plastic Behaviour of A588	Dr.R. Ku maravelan	International Journal of Mechanics and Design	2020	5	89	Velalar College of Engineering and Technology
A new study on Tribological Performance of Cissus Quadrangularis Stem Fiber/Epoxy with Red Mud Filler Composite	Dr.R. Ku maravelan	Journal of Natural Fibers	2020	5	89	Velalar College of Engineering and Technology
Preparation and study on Thermophysical Properties of Inorganic Salt	Dr.R. Ku maravelan, R. Prakash	Materials Today: Proceedings	2020	5	89	Velalar College of Engineering and Technology
Design and implementation of cascaded H-Bridge multilevel inverter using FPGA with multiple carrier phase disposition	Dr.K.R.V alluvan Ms .S.Chitra	Microprocessors and Microsystems	2020	5	2	Velalar College of Engineering and Technology

modulation scheme						
Performance Evaluation of a Solar PV/T Water Heater Integrated with Inorganic Salt Based Energy Storage Medium	Dr.R. Kumaravelan, R. Prakash	Journal of New Materials for Electrochemical Systems	2020	5	89	Velalar College of Engineering and Technology
Experimentation on Product and Service Life Cycle On Drive Shaft Using Ant Colony Algorithm	Dr.M.Jayaraman	Journal of the Balkan Tribological Association	2020	10	376	Velalar College of Engineering and Technology
Cluster Analysis of Lost Foam Casted Al-Zn-Mg-Cu Alloy with K-Mean Algorithm	Dr.M. Jayaraman	Journal of New Materials for Electrochemical Systems	2020	9	265	Velalar College of Engineering and Technology
Mechanical properties of 7075-t6 aluminium alloy surface hybrid composites synthesized by friction stir processing	Dr.M. Jayaraman	International Journal of Rapid Manufacturing	2019	9	265	Velalar College of Engineering and Technology

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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/Seminars/Workshops	154	2760	441	689

Presented papers	214	192	3	0
Resource persons	57	211	8	12
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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)
Information Technology	PG TRB Exam	NSEIT	106000
Information Technology	Forest Watcher Exam	SIFY	49650
Information Technology	Online Exam	TCS	174629
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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
Electrical and Electronics Engineering	AutoCAD -Electrical	Live Wire-A Division of CADD Centre, Erode.	19200	64
Electrical and Electronics Engineering	Smart Mobile Technology - Maintenance and Service	New Technology Mobile Service Training Centre, Coimbatore.	53500	107
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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
Prosthetic Camp	Velalar College of Engineering and Technology	2	75
Cleaning Awareness Programme	Velalar College of Engineering and Technology	2	55
Republic Day Celebration	Velalar College of Engineering and Technology	2	80
Yoga Programme	Velalar College of Engineering and	2	65

	Technology		
Youth Awakening Day	Velalar College of Engineering and Technology	2	50
World NSS Day Celebration	Velalar College of Engineering and Technology	2	100
Teacher's Day Celebration	Velalar College of Engineering and Technology	2	50
Sapling Plantation Camp	Velalar College of Engineering and Technology	2	62
Independence Day celebration	Velalar College of Engineering and Technology	2	85
Computer Awareness Programme	Velalar College of Engineering and Technology	2	35
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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 agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Public health and preventive medicine	Rotaract Club and Primary Health Centre, Thindal	Pulse Polio Immunization Camp	1	35
World Heart Day	Rotaract Club and Lotus Hospital, Erode	Walkathon and Marathon	1	60
Mental and body health Camp	Ananda Marga Mission, Kolkatta	Yoga and Meditation Class	1	150
Mahatma Gandhi's 150th Birthday celebration	Desiya Chinthanai Kazhagam, Chennai	Awareness program	1	250
Swachh Bharat	NCC	Swachh Bharat Abhiyan	1	16
COVID 2019	Velalar College of	Covid disease awareness	2	50

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
National level Workshop on Recent development in Modeling of Biomedical Instrumentation Design using Molecular Dynamics and Monte Carlo techniques	30	CSIR	2
National level Seminar on Recent Advancement in computational Biomechanical Modeling of Joint Mechanics and Early Therapeutic Methods for Osteoporosis Using Prophylactic Vertebroplasty and Kyphoplasty Techniques	43	CSIR	1
National level Technical Symposium on Recent Advancement in Riemann Hypothesis Technology and Innovations in Adaptable Intelligence Systems for Biomedical System Design using Smart Materials - A Future Approach (RHAIFA)'19"	30	CSIR	1
Biomedical Engineering Society of India: BMESI Sponsored Three Day National Level Seminar on "Translational Research in Medical Imaging using Artificial	45	DST-NIMAT	9

Intelligence Technique – New Frontiers in Diagnostic and Therapeutic Approach”			
Entrepreneurship Development Institute of India (EDII) sponsored three days Entrepreneurship Awareness Camp	138	DST-NIMAT	6
STTP Session 1 on Machine Learning Techniques for Medical and Healthcare Applications	30	AICTE	6
STTP Session 2 on Machine Learning Techniques for Medical and Healthcare Applications	136	AICTE	6
Entrepreneurship Development Institute of India(EDII) sponsored Entrepreneurship Awareness Camp	133	DST-NIMAT	3
Entrepreneurship Development Institute of India(EDII) sponsored Entrepreneurship Awareness Camp	275	DST-NIMAT	3
Entrepreneurship Development Institute of India(EDII) sponsored Entrepreneurship Awareness Camp	123	DST-NIMAT	3
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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	Duration From	Duration To	Participant

		with contact details			
Internship to students	Internship	Seshasayee Paper Boards LTD, Pallipalayam, Cauvery R.S P.O, Namakkal (Dt)	09/01/2020	31/03/2020	4
Internship to students	Internship	Caliber Virtual Technologies India Pvt LTD, 31, Chendur Complex, 2nd floor, Naichiyappa Street, Erode -1	08/01/2020	13/03/2020	8
Project work to students	Internship	Neophron Technologies, Erode	16/12/2019	20/03/2020	35
Internship to students	Internship	Hitachi Automotive systems (India) Pvt LTD Plot no-17, Panchanthiruthi village, one hub chennai, Thiruporur (Tk), Kancheepuram (Dt), 603105	27/01/2020	22/07/2020	4
Project work to students	Internship	Centre of Excellence in Manufacturing Sciences, Coimbatore Institute of Technology, Coimbatore	19/12/2019	16/03/2020	8
Project work to students	Internship	The Clinic'les, Shanmuga Hospital, No 24, Saradha college Road, Salem.	01/07/2019	01/07/2019	21
Construction of Buses, Lorries, Car	Industrial Visit	Anamalais Engineering Coach Builders,	10/08/2019	10/08/2019	96

Carriers, Delivery / Ambulance Van bodies		Pollachi.			
Multi- Product Engineering Company	Industrial Visit	Kerala Electricals and Allied Engineering Co. Ltd, Mamala, Kochi, Keral a-682305	09/09/2019	09/09/2019	108
Medical Equipment Ma nufacturing company	Industrial Visit	BPL Medical Technologies Pvt. Ltd. , Palakkad	07/09/2019	07/09/2019	95
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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
Pantech Solutions, Chennai	07/04/2020	Project and Internship	382
Centre of Excellence in Manufacturing Sciences,Coimbatore Institute of Technology, Coimbatore	27/01/2020	Collaborative teaching and Research.Exchange of information on Research and Education programmes.Exchange visits by faculty, researchers and students. Joint proposals and engagement in research and training programmes sponsored by funding agencies.	8
ICT Academy	01/09/2019	Faculty development, student skill development , Industry Institute Collaboration, Entrepreneurship development, Research	619
BSNL, Erode	07/08/2019	To organize internship for students	24

The Clinicles, Shanmuga Hospital, Salem	01/07/2019	To form a strategic alliance for providing medical training on installation, maintenance and servicing of medical equipment handled by them.	21
CADD Centre, Erode	02/01/2020	Workshop / Hands on training on AUTOCAD software for students	79
Sre Andavar Looms, Komarapalayam, Nammakkal	02/01/2020	Industrial visit, In plant training and special training, Guest lectures and R D, Problem solving, Studies and survey, Placement assistance	45
FRIGATE, Trichy	02/12/2020	Industrial visit, In plant training and special training, Guest lectures and R D	2
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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
93.74	106.49

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Existing
Campus Area	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 partially)	Version	Year of automation
Campes iLib	Fully	5.8.1	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	56172	15814447	3300	1616365	59472	17430812
Reference Books	10636	4003782	84	168000	10720	4171782
e-Books	4250	0	25	0	4275	0
Journals	3421	7508803	263	724971	3684	8233774
e-Journals	31123	6724841	208	555166	31331	7280007
CD & Video	5174	0	156	0	5330	0
Library Automation	1	15000	0	0	1	15000

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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
Mrs.S.Yamuna devi	FIR Filter Design using Windowing technique	YouTube	02/04/2020
Dr. V. Latha Jothi	Optimal Binary Search Trees	YouTube	15/04/2020
Dr.M.Nisha Angeline	Controllability and Observability	YouTube	07/04/2020
Dr.S.Kayalvili	Fayols 14 Principles of Management	YouTube	29/04/2020
Ms.S.Ponni	Android Testing	YouTube	13/04/2020
Ms. D.Lavanya	Turing machine for addition	YouTube	16/04/2020
Ms. Aarthi V	Plotting in SCILAB	YouTube	23/12/2020
Dr. S. Rajan	GSM Channels	YouTube	24/10/2020
Mr. Karthikeyan N	Maximum Mode	YouTube	12/08/2020
Mr. Senthilkumar.P	Monostable Mode using 555 Timer	YouTube	02/04/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwid th (MBPS/ GBPS)	Others
Existin g	1006	14	1156	1	1	19	17	300	1
Added	150	3	15	0	0	0	0	0	0
Total	1156	17	1171	1	1	19	17	300	1

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

300 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
College Management System Institutional	https://velalarengg.ac.in/vccoe/naac.html

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
12	7.23	92	77

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)

• Vellalar Educational Trust, Estate office, Hostel office, Physical education and Green forums oversee the maintenance and sustenance of works related to infrastructure, Hostels, Sports, Civil and Solid and Liquid waste management. • Science, Research and Language Labs: Lab Assistants in consultation with the faculty concerned maintains the inventory and undertakes stock registering, calibration and overhauling on a regular basis. The equipments are kept clean and functional and the students are guided by the Assistants to handle them safely and to upkeep the Registers. Chemicals and mixtures are kept safe in a locked room. Breakages are duly registered by the faculty concerned. Oral request facilitates intra-discipline exchange of articles. Demo and practical halls are securely fastened after the procedures.

• Library is stacked up with new entries on demand from faculty and students the feedback from the suggestion box helps enriching the read-shelves digital record of visitors is done daily and library committee supervises the usage proceedings. Books found unusable are checked for reviving or to be stacked separately. Back volumes of the journals are bound and sent to the departments for research reference. Regular pest control measures are undertaken with eco-friendly mixtures. Reprographic facilities are extended to all the visitors. Library protocol with regard to silence, mobiles, footwear and personal belongings are strictly adhered to. Issuing books and overdues are proceeded as

per library thumb rules. E-Library, resources, NDLI, INFLIBNET, NAD Repository etc., are the best practices of the library. • Sports: Indoor and outdoor play-space are maintained as per specifications the PDs guide the field assistants to prepare the ground for training and events. • A Spacious Gym is open for the faculty and the students beyond the working hours. Play courts are regularly checked for maintenance and the required sports items are effectively reinforced. • Computers: Updated and upgraded systems and versions facilitate fast learning and career plans. Corporate integrants guide the students in career choice and career mobility. The institute has provided n number of computers in labs and upkeep is done through AMC and by calls. Dysfunctional system are collected by the E-Waste agencies. • Classrooms: The institute engages building experts to check the strength of the building and the infrastructure is periodically inspected • The institute has an expansive Auditorium where international and national seminars and conferences are organized. Seminar Halls are used for multidisciplinary discussions and exchanges. • Data Centre controls centralized database management system and all institutional data are pooled for ready reference. • Waste Management: Bio-gas plants and Incinerators are installed and properly maintained by the trained staff • Energy Management: Qualified and trained personal keep a regular check on gadgets like UPS, Generators, Lifts, Fans, Projectors, AC and Acoustics. • Energy Audit consolidates the power requirements and power-off on specific hours facilitates energy conservation. Solar energy is also harvested for hostel inmates

<https://velalarengg.ac.in/vccoe/naac.html>

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	Vellalar Trust-Management Scholarship	965	17877500
Financial Support from Other Sources			
a) National	Sakthi Devi charitable Trust, M.Soundappan Trust, Omieat Trust, Mother Teresa Foundation, Thanjavur, BC/MBC Welfare Department Scholarship, SC/ST Welfare Department Higher Education Special Scholarship,	2628	48647905
b) International	NIL	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
---	-----------------------	-----------------------------	-------------------

Bridge Courses	14/10/2019	48	VCET
Language Lab Training	23/03/2020	700	VCET
Remedial Coaching	07/04/2020	39	VCET
Soft Skill Development	17/07/2019	512	Sai Training Academy
Yoga and Meditation	09/08/2019	707	Manavalai Kalai Mantram, Erode
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Interactive awareness program for GATE examinations (Hi-Focus GATE academy)	230	230	1	0
2019	Awareness program for banking exams, CAT, GATE, Government Services Exam (T.I.M.E)	121	121	0	0
2019	GATE Awareness Programme	125	125	0	0
2020	Study at Overseas	111	111	0	0
2020	Why MBA after Engineering	111	111	0	0
2020	German Language and Higher Studies in Germany	236	236	0	0
2020	Awareness Program on "Group Services Examinations"	236	236	0	0

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Wipro Technologies	98	8	Tata Consultancy Service	479	34

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	8	BE	Electronics and Communication Engineering	Kumaraguru College of Technology	ME(AE)
2020	9	BE	Computer Science and Engineering	GRG School of Management Studies	MBA
2020	5	BE	Biomedical Engineering	Bournemouth University, UK	MS (Data science and AI)

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

Items	Number of students selected/ qualifying
GATE	1
GMAT	2
Any Other	28

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

Activity	Level	Number of Participants
Culturals	College	350

Sports	Inter-University	405
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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	Volleyball (Women) Tournament - Third Place	National	1	Nill	16CSR028	K.Hemapr iya
2019	Basketball (Women) Tournament - Fourth place	National	1	Nill	16BMR108	R.Yuvash ree
2019	Ball Badminton (Men) Tournament - Fourth place	National	3	Nill	16MER048	A.S.Loge shwaran
2019	Cricket (Men) Tournament - Third place	National	1	Nill	16MER011	S.Deepak
2019	Ball Badminton (Women) Tournament - Second place	National	1	Nill	16ECR045	T.Harini
2019	Athletic s-Javelin Throw (Men) -IIInd place	National	2	Nill	17ITR071	V.Nimisha

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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)

1. The objective of the Student Association is to make the students to participate in the development of the institute and develop their career, personality and organizational skills through interactive programmes with the faculty and administration. The organization creates a platform for the active participation of the students in the various academic administrative bodies. This empowers the students in gaining leadership qualities, execution skills

and knowledge of rules and regulations. 2. The institute has a dynamic student association consisting of student members. The student members of the association are nominated by the academic dean and the representatives are selected from various sections of student community. 3. The constitution of the student association is maintained by IQAC. 4. The association is monitored by senior faculty members who are responsible for the smooth conduct of the association meetings. 5. Various co-curricular activities organized by the association include Special Lectures by experts, Seminars, Workshops, Symposium, National Level Conference and Intercollegiate meet to develop the personality and skills of the student's ability. 6. The student association members are responsible for conducting Institute Annual day, International Women's day, Sports day, Teachers day, Farewell party, Pongal fiesta, etc., every year. 7. It organizes programmes in the campus to improve the cleanliness and greenery in campus, blood donation, Fire safety, pollution control, save energy and save water. 8. The student association representatives are helping the administration in smooth conduct of student activities on the campus suggesting the administration to improve the student amenities to improve their career and personality building. 9. The student association members actively participate and guide the junior and needy students. The Association members are responsible for prevention of ragging in the campus through counseling the students and helping the administration whenever necessary. 10. The association members are highly appreciated for maintaining the peace and harmony in the campus. The association members bring forward the academic views and suggestions of the students inside the college. 11. The student's association along with the college administration has actively solved many problems of the students' like availability of resources, coaching class, etc., Thus, the college students' association has shown an active participation along with the college management for enhancing the name and fame of the institution.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

10600

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Inauguration of Chennai Alumni Chapter on 21.09.2019 Inauguration of Bengaluru Alumni Chapter on 30.11.2019 Inauguration of Coimbatore Alumni Chapter on 15.02.2020 Alumni Induction Programme for 2019 Batch conducted on 09.02.2020

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)

The institution has always promoted decentralization and participative management as a form of democratic governance as it believes it would result in creating an ambience favorable for overall growth of the institute. This is achieved by encouraging all the stakeholders to contribute through participation at various levels such as: • Formation of different statutory sub committees comprising representatives from all stakeholders of the college for

coordinating important administrative activities of the college. • Formation of different sub committees under the supervision of IQAC comprising representative of all stakeholders of the college for coordinating important academic activities of the college.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	<ul style="list-style-type: none"> • Quality curriculum is developed taking into account the views of all stakeholders' students, alumni, subject experts, faculty expertise and industrial experts. • Industry based curriculum with societal impact is the key point in developing the curriculum. • In an affiliating system there is limited flexibility for innovative curricular designing. However the colleges involves in the process indirectly as and when the faculty members are elected to various Academic Bodies. • From 2016 to 2017 onwards the college has become autonomous and Credit based Semester System was introduced. • All the teachers of the college have actively participated in the syllabus framing process. • 56 members of each department of the college played their role as members of the Board of Studies. • During the course of the academic year many of the departments contributed substantially to introduce innovation in curricular design
Admission of Students	<p>The College ensures transparency in the admission process by strictly adhering to the guidelines issued by the AICTE, Govt. of Tamil Nadu, Directorate of Technical Education and Anna University. In B.E./B.Tech., 65 of seats are admitted through Counseling by Single Window System conducted by Anna University Chennai. Remaining 35 seats are admitted through Management Quota. For PG Programmes such as MBA, MCA M.E/ M.Tech programmes, 50 seats are filled by Government Quota and the remaining 50 by Management Quota. Admission for Management quota is done as per the procedures of Consortium of Self Financing Professional, Arts Science Colleges in Tamil Nadu. Scholarships are also provided to the</p>

meritorious students on various schemes to help socially backward and economically backward students to get into the engineering education

Industry Interaction / Collaboration

The Industry Institute Partnership Cell (IIPC) at VCET is intended to be the face of the institute to the industry. It aims to facilitate the process of close industry institute interaction and actively promoting fresh avenues for the same. The Industry Institute Partnership Cell (IIPC) at VCET strives to enhance industry interaction with students and bridge the gap between academic and corporate world. IIPC invites entrepreneurs, executives and policy makers to address students thereby facilitating practical learning. The following activities are regularly followed to enhance IIPC activities

- MoUs signed with industries for various activities like consultancy, students' projects, Inplant training etc.
- Inplant training is made mandatory for the students from their second year onwards.
- Faculty members are also encouraged to undergo inplant training at least two days in a year.
- Final year students are encouraged to do Industry oriented projects.

Human Resource Management

A well established HRD cell manages Human Resource of the College. It is responsible for the attraction, selection, training, assessment, and rewarding of employees, while also overseeing organizational leadership and culture and ensuring compliance with employment and government laws. Proper care is taken in the selection process for keeping quality in the appointments. Staff sent for various types of training programme and workshops for enhancing their competence. Work distributed as per qualifications and experience of the faculty members. The Principal of the College is the academic head of the Institution. He looks after the academic activities of the Institution and maintains a cordial relationship with the management and all stakeholders. Through HRD cell, a special lecture by one faculty member is being organised every week which is named as "Faculty Lecture Series (FLS) to disseminate the knowledge among all

faculty members and to induce inter disciplinary knowledge among them

Library, ICT and Physical
Infrastructure / Instrumentation

Physical Infrastructure VCET has sufficient infrastructures which includes, seminar Halls equipped with projector with seating capacity of 200 members, Faculty rooms, Meeting rooms, Office, Class rooms, Tutorial rooms, Boys common rooms, Girls common rooms, Laboratories equipped with necessary hardware and software, communication Laboratory, Research Laboratory , Library, Internet and wifi facility in the entire building. The academic schedule is drawn at the beginning of the academic year itself in such a way that the available Air Conditioned Seminar Halls, Language Lab, Computer Centres, Hardware Labs, Audio Visual Rooms, LCDs, Play grounds, Gym, Digitalized Library, Dynamic Website, 24x7 WiFi Campus, Controller of Examination Centre are utilized to the maximum extent by all the Departments without compromising the quality of service to the students. Library Library Committee suggested a list of books based on interaction with the students and faculty members. This list was forwarded to concerning authority for sanction and purchase of books. Services in Library The Library has a key role in supporting the academic activities of the institution by establishing, maintaining and promoting the following library and information services, both quantitatively and qualitatively. • Fully computerized barcoded circulation services • Online Public Access Catalogue (OPAC) at the library for search of books and other academic materials of the library such as CDs etc. • Online full text access to international journals • DELNET(Developing Library Network) Service • Reprography(Xerox, Scanni8ng, Printout) • CD DVD Access Writing • Open Access System • Barcoded User Entry System • Inter Library loan service • CCTV surveillance system with 17 camera's • Display of information regarding new arrivals • Internet Access • WiFi Facility Digital Library Section 32 terminals with head phones and mikes are available in the Digital Library section with internet access facility to access the free ebooks, DELNET, NPTEL IEEE ASPP Online

resources. • The Collection consists of 4000 free ebooks, 129 NPTEL web courses, 4454 CDROMs and 110 NPTEL courses in Video format. ICT Infrastructure LCD projectors , Desktops, printers, Internet switches, Dot matrix printers, UPS, application software and systems software's

Features of IT infrastructure • Completely WiFi in campus with 14 Wireless Access points. • 300 Mbps Bandwidth for internet with dedicated leased line. • Cloud Control Router(CCR) has installed to monitor the network traffic. • 1000 systems supported by Servers • 3000 meter Optical Fiber Backbone for providing seamless connectivity • Over 6000 Video lectures of Professors of IIT for students and faculty • Common Computer Centre of 140 latest configuration computers for students.

Examination and Evaluation

• The performance of every student in autonomous system is evaluated and grades awarded by two components namely continuous Assessments (CA) throughout the semester and Semester Examination (SE) at the end of the Semester. • The apportionments of marks are: Theory: CA 40 SE60 Practical: CA50 SE50. For mini projects, projects etc. CA100. The CA Marks are arrived by marks from best 3 out of 4 class tests (for a duration of 1 ½ hours and a maximum marks of 50 each), assignment (3 per course) and activities (decided by the course teacher approved by the course coordinator). • The Semester Examinations are conducted for a Maximum marks of 100 and for duration of 3 hours. The mark obtained is scaled to 60. • The Question papers for the semester Examinations are set by qualified External Examiners from Institutions like NIT, AU, PSGCT, Pondicherry Engineering College and other autonomous Institutions. • The concepts of Blooms Taxonomy and knowledge levels (HOTS, LOTS) are practiced in all class Tests and Semester Exams' QPs. • The QPs are scrutinized for 100 correctness as per the approved QP Pattern, Syllabus Coverage, Clarity, Grammar and Syntax mistakes with the help of course faculty. • Examinations are invigilated by both external faculty and internal faculty in the percentage ratio of

75:25. • Dummy numbers are assigned to the answer scripts and evaluated by external and internal examiners in the percentage ratio of 75:25 • After Valuation, the Result Passing board analyses the result and approves them. Then the results are published

Research and Development

- A separate Research and Development cell is functioning with an R D Coordinator.
- Efforts are being taken to obtain research projects, grants from funding agencies
- Providing monetary incentives to the staff and students for presenting research papers in State. International, National level Seminar and Symposium.
- The Institution offers 50 percent of the registration fee with OD for faculty who are presenting the papers in national International seminars.
- Rs. 1500 cash award for paper presented in International and National Journals.
- Sharing of 40 percent of the consulting revenue to the consultancy team.
- Encouraging faculty to enhance their qualification [Ph.D. programme]

Teaching and Learning

- Adopting interactive method, project based learning, computer assisted learning, experiential learning, Centric learning, seminars, guest lectures, group discussions to make teaching and learning as efficient and effective process.
- Use of teaching aids like OHP and LCD Projector in addition to Conventional lecture method.
- Web based learning and Visual class rooms are used to enrich their knowledge in latest Technologies.
- Providing practical experience by way of hands on training, mini projects and additional lab experiments beyond the syllabus.
- Providing Internet facilities during college hours and beyond to have exposure to latest trends.
- Arranging guest lecturers by inviting experts from Industries, Research Organizations and Educational Institutions in the emerging field to enable the staff and students to learn new technologies.
- Interaction sessions are arranged with people from Industries to have a clear idea regarding the industrial needs.
- Encouraging the learners to ask questions during teaching process (Learn by Queries) in order to clear the doubts while grasping the subject.

- Submitting assignments / Innovative works on various topics.
- Conducting seminars and presenting papers in the class, provides platform for discussion among the learners.
- Visiting Industries, Exhibitions, Trade Fairs etc., helps to enhance their knowledge.
- Participating and presenting papers in symposiums, Conferences, Displaying their Project etc., helps to exhibit their talents.
- Arranging Professional Trainers from reputed organization to develop their aptitude, communication, personality development and other soft skills.
- Identifying the slow learners and adopting remedial measures to improve their learning skill.
- Counseling and motivation are done for the needy students to make them better
- Coaching is given for respective students to prepare for competitive examinations.
- Practical knowledge assessed by means of conducting practical examinations are evaluated by Internal and External examiners.
- Language Laboratory has been effectively used to improve the Communication skills and online tests are conducted for evaluation.

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

E-governance area	Details
Planning and Development	<ul style="list-style-type: none"> • Information were shared through SMS system • Virtual Learning System were adopted for the students
Administration	<ul style="list-style-type: none"> • Practice of PFMS portal to upload expenditure related to Govt. fund Use of CMS for applying all types of leave by all the staff members and students
Finance and Accounts	<ul style="list-style-type: none"> • Entire computerization of office and accounts section • College accounts are maintained through Tally
Student Admission and Support	<ul style="list-style-type: none"> • Database are retained in need based software • E-attendance is marked in INSPRO
Examination	<ul style="list-style-type: none"> • Online examination for skill based subjects • Initiated online portal system for competitive exams

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	Name of the professional body for which membership	Amount of support
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		support provided	fee is provided	
2020	Mr.S.Hariprasath	Ideation and Proposal Writing Workshop	IIT Madras	2000
2020	Dr S.K. Manikandan	Outcome Based Education- Teaching Learning centre	-	3000
2019	S.Ramesh Kumar	5th Concrete research in India (CRI) Symposium	-	1000
2019	D.Sakthivel	5th Concrete research in India (CRI) Symposium	-	1000
2019	C.Pranesh	IIT workshop on 'Structural Design of Building Systems'	-	500
2019	Ms.A.Kalyani	-	IEEE - EMBS	8630
2019	Dr.S.Mangai	-	IEEE - EMBS	8630
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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)
2019	Faculty Orientation Programme	-	18/09/2019	18/09/2019	35	Nil
2019	Faculty Refreshment Programme	-	14/11/2019	15/11/2019	147	Nil
2020	Revised Assessment and Accreditation Framework of NAAC	Revised Assessment and Accreditation Framework of NAAC	30/01/2020	31/01/2020	220	20
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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
Fostering Ethics, Moral values and Character Building in Technical Education	8	24/06/2019	07/07/2019	14
Design and Developent of Engineering using Free / Open Source Software	11	25/11/2019	30/11/2019	6
Scope of Artificial Intelligence and Machine Learning in Automation	8	11/05/2020	17/05/2020	7
Improving Your Research Visibility - Research Impact and Metrics	10	11/05/2020	13/05/2020	3
Online STTP on Machine Learning Techniques for Medical and Healthcare Applications	6	21/09/2020	26/09/2020	6
FDP on Machine Learning and Deep Learning using Python	1	01/06/2020	15/06/2020	15
STTP on Machine Learning Techniques for Medical and Healthcare Applications	6	03/08/2020	08/08/2020	6
Faculty Induction Programme for Teachers in higher Education	1	25/11/2019	13/12/2019	18
AICTE	6	25/11/2019	30/11/2019	6

sponsored Short Term Training Program on Design and Development of Engineering Applications Using Free/Open Source Software(FOSS)				
AICTE sponsored Short Term Training Program on Pedagogy on Emotional Intelligence skills for career growth and success	3	01/07/2019	06/07/2019	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
19	19	8	8

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • 25 percentage fee concession for their wards if they study in this group of institutions. • 50 percentage fee concession if the faculty is a bus incharge/ coordinator. • 100 percentage fee concession if the faculty is deputy warden. • 3 months Maternity leave for female faculty members. • 6 days medical leave • 12 days casual leave. • 25 days On Duty for attending conferences / seminars / research activities and examination purpose. • 30 days' vacation leave • 2 Lakhs sum assured Mediclaim Group Insurance policy for all the faculty members • Recommendation for 	<ul style="list-style-type: none"> • 25 percentage fee concession for their wards if they study in this group of institutions. • 50 percentage fee concession if the faculty is a bus incharge/ coordinator. • 100 percentage fee concession if the faculty is deputy warden. • 3 months Maternity leave for female faculty members. • 5 days medical leave • 12 days casual leave. • 5 days On Duty. • 20 days' vacation leave • 2 Lakhs sum assured Mediclaim Group Insurance policy for all the staff members • Recommendation for getting personal loan from the bank at lowest interest rates 	<ul style="list-style-type: none"> • 100 percentage Tuition fee concessions for students scored very good marks in plus 2 • Scholarships for economically backward students from the trust • Scholarships for socially backward students from the trust • Awards for academic rank holders • Awards for achievers in sports and games. • Awards for achievers in co-curricular activities and extracurricular activities • Best outgoing student award.

getting personal loan
from the bank at lowest
interest rates

6.4 – Financial Management and Resource Mobilization

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

The institution has established a system to audit all the financial transactions by both internal auditors and auditors of external agency. The books of accounts and the supporting evidences are subjected to both internal and external audit. The internal audit practices to monitor financial management of the institution ensure sound financial health of the institution. The internal audit is carried out to take care of the requirements specified on monthly basis. External audit carried out ensures total compliance with statutory requirements and obligations. The external audit is carried out once in two months. The last external audit has been concluded up to 31st March, 2020.

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
AICTE, CSIR, TNSCST	2082000	MODROBS, STTP, Seminar/Workshop, Students Project
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6.4.3 – Total corpus fund generated

24148593

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	No	No	Yes	Committee Constituted by college
Administrative	Yes	T.V.Venkatraman Co, Erode	Yes	Mr.Velumani

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

Every semester the one to one communication between Teachers and Parents will be held. The regular activities of the students, attendance percentage, the college rules, the laboratory rules, the regulation and curriculum of the programme, importance of the placement training and placement drive, assurance of undergoing Industrial Visit are discussed during the PTA meeting. Other than these, regular communication will be done for attendance, continuous assessment test performance and any other common information through SMS. These activities are supported • To motivate and regularize the student activities • To prepare the students to attend the placement drive • To improve the leadership qualities • To improve academic performance of slow learners

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

- Operation and Maintenance of UPS training • Once in semester, we organizing a hand on training programme about the laboratory tool usage maintenance for all the supporting staff • Once in a academic year, we organizing a workshop on "Laboratory Safety Precaution" by eminent resource person for all the supporting staff

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

- Procedure for Credit Transfer is defined • Student Leadership development programme is organized to enhance the employment skills • Procedure has been defined to identify slow learners • Entrepreneurship activities are motivated for self employment.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
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	23rd meeting of IQAC	09/07/2019	09/07/2019	09/07/2019	21
2019	24th meeting of IQAC	11/10/2019	11/10/2019	11/10/2019	21
2020	25th meeting of IQAC	04/01/2020	04/01/2020	04/01/2020	21
2020	26th meeting of IQAC	06/05/2020	06/05/2020	06/05/2020	21
2020	Revised Assessment and Accreditation Framework of NAAC - An Approach	30/01/2020	30/01/2020	30/01/2020	207

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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
Management of Psychosocial	04/01/2020	04/01/2020	206	2

problems among female college students				
Women's Day-I am Generation Equality: Realizing Women's Rights"	08/03/2020	08/03/2020	290	3

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

Percentage of power requirement of the University met by the renewable energy sources
<ul style="list-style-type: none"> Solar power and LED lights are used in the College in order to reduce energy Solar Water Heater capacity of 200 litres per day is consumed in hostels.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	2
Braille Software/facilities	No	0
Rest Rooms	Yes	2
Scribes for examination	Yes	1

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	22/07/2019	1	Computer Awareness Programme	Computer Awareness	37
2019	1	1	15/08/2019	1	Sapling Plantation Camp	Protection of the Environment	64
2019	1	1	21/11/2019	1	Social health related awareness seminar	Social and health issues	451
2019	1	1	09/12/2019	1	Dengue Awareness Camp	Awareness about dengue disease	41
2020	1	1	19/01/2020	1	Pulse	Public	36

			020		Polio Immunization Camp	health and preventive medicine	
2020	1	1	26/01/2020	1	Tree Plantation programme	Protection of the Environment	16
2020	1	1	03/02/2020	1	Cleaning Awareness Programme	Cleanliness of the environment	57
2020	1	1	13/03/2020	1	COVID 2019	Awareness about Coronavirus disease	52
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
College Calendar 2019_20 for all the students	01/07/2019	A code of conduct for the students is illustrated

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day was celebrated along with SKM Manavalakalai Mandram	21/06/2019	21/06/2019	700
World Population Day rally	11/07/2019	11/07/2019	50
Independence Day celebration	15/08/2019	15/08/2019	250
Teachers Day celebration	05/09/2019	05/09/2019	225
Engineers Day celebration	15/09/2019	15/09/2019	225
World NSS Day celebration	24/09/2019	24/09/2019	100
Mahatma Gandhi's 150th Birthday celebration	02/10/2019	02/10/2019	250
Dr.A.P.J. Abdul Kalam's Birthday celebration	15/10/2019	15/10/2019	200
Celebration on Harvest Festival	11/01/2020	11/01/2020	2000

Thai Pongal			
Republic Day celebration	26/01/2020	26/01/2020	500
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

The college, on a regular basis, makes a thorough environmental assessment of the campus and implements healthy ecological practices in water and energy conservation and waste management. Some of the initiatives are as follows: • Energy efficient lighting - LED lights and energy efficient PL lamps which consume less power are used in the College. • Use of Renewable Energy: Solar powered lights and hot water systems are used in the hostel and the convent. • An Energy Audit has been initiated and measures are being taken to increase the use of solar energy on campus. • The existing RO plants supply potable water for the entire college. • Some of the other eco initiatives are ? Green Club activities ? Creating Environment Consciousness ? Installation of Rain Water Harvesting ? Efforts for carbon neutrality ? Campus is Plastic-Polythene free ? Tree planting programmes ? Waste management ? E-waste management ? Village outreach programs ? Conduct programmes on environmentally important days ? Environment and Health campaign ? Uses of renewable energy sources- Solar Panel etc.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICE - 1

1. Title of the Practice Student Corner
2. Objectives of the Practice • Student competence can be exhibited by allowing them to post materials like articles, brain busters and contents of technological advancements from Media and Newspapers. • To make students discuss, share and learn from others. • To provide a platform to emphasis on recent trends and technologies in the latest fields.
3. The Context Student Corner was built by students for students. The Student Corner Platform to provide a place where students can safely create, collaborates on, and shares their work. Portfolios allow students to take pride in their work and use it for college applications, scholarships, resumes, and professional purposes. Student Corner was created to be the all-in-one solution for learning. Students can showcase and highlight their talents. Student Corner provides both students and teachers alike the power to design, create, develop and share their work in one central place.
4. The Practice

1. Academic and Professional Organizations- Students are actively encouraged for membership in the organisations ISTE, CSI to assist and contribute in the production and development of top quality professional engineers needed by the industry and other organisations. Activities by these organisations include organize quiz programmes, organize lectures by experts from industry, RD organizations, coaching programme for writing competitive examinations and attending job interview. Training programme on Report writing, Project management, Entrepreneurship development programmes, Discussions, Brain-storming sessions, Group activities, Visits to industry, Work sites.
2. Association Activities: Students convene to discuss pertinent issues related to their field of interest and to learn job related skills in an effort to be fully prepared for future success. Association activities include Seminars and workshops, Project Expo, Conferences, Symposium and Intradepartmental meet. Association events include activities like Quiz, Paper presentations, Project presentations in and outside colleges.
3. Volunteer and Service-Related Activities: Volunteer and service-related activities exist to help improve the local and worldwide community. Students are engaged in community service projects, such as planting trees, Servicing in Slums, working for improvement of physical environment. Additional service projects and organizations function

throughout the year, including National Service Scheme, National Credit Corps, Rotaract Club, Youth Red Cross, Red Ribbon Club, Fit India Youth Club which promote service and volunteerism during the college years. Service-learning programs offer students an opportunity to contribute to their community and, most important, to critically reflect upon their service experiences. 4. The

Arts: Students interested in fine arts have a plethora of extracurricular opportunities in which they can actively participate. Activities including plays, musicals, and dance concerts offer a chance for students to demonstrate their dramatic abilities. Marching band, Fine Arts and singing groups allow students to pursue their musical interests at the college level. Students can also participate in Multimedia presentations in and outside colleges. Media organizations on campus consist of activities that include writing or photographing for the college newsletter, serving on academic calendar book. 5.

Evidence of Success • The students are inspired to provide their own ideas and creativity. • Confidence level and morale of students are improved. • Each and every student get the chance of posting in Student Corner • Collaborate with each other to work together on projects and ideas. 6. Problems Encountered and Resources Required • Hesitation from Slow Learners for participation •

Allocating time to make students discuss on what is posted in the Student Corner. BEST PRACTICE - 2 1. Title of the practice: "MENTORING SYSTEM" Mentoring on one to one basis with the students enables an upliftment in their academic and personal issues. Mentoring helps to tune the students thoughts in making their minds healthy which is a prerequisite for acquiring knowledge and gaining confidence to face the competitive world. Awareness is created among the students to improve the learning process in a better and systematic way. Moral and ethical values are also incorporated in student's life. 2. Objective of the practice Objectives • To ensure that every student feel free to expose their views and talents. • To solve the grievances among the students in academics and personal issues. • To create an awareness through counseling in a wide range for propitious life. Intended Outcome • Positive change in student's attitude. • Inculcating the culture of continuous improvement in academic, curricular and co- curricular activities. • Improvement of the personality and soft skills development among the students. • Aids in Development of personal and academic proficiency. Underlying principles / Concepts of this practice • To enable the overall development of students through a supportive environment.

3. The Context Students today are facing multiple challenges in terms of technology influence, less attention from parents, multiple diversions etc., The college atmosphere adds to the differences and students find the difficult to approach the faculty for guidance. In this context mentoring system will provide a open atmosphere to share their talks and will enable the students to develop their academic achievements. 4. Practice It is mandatory to give counselling twice in a semester. In case of necessity, counselling will be given anytime. Mentoring is done as per the scheduled time, as it is always required in teaching learning processes. Constraints and Limitations Hesitation in the minds of students to open up with their mentor. 5. Evident of Success Academic: Success is seen among the students in their academic performance as well as cocurricular activities such as participation and awards in technical session, quiz, competitions, paper presentations and poster presentations.

Extra-curricular: Ample participation and accolades in inter and intra-collegiate competitions. Sports: Students participation in indoor and outdoor games at college level, University level, District level, State level and National level 6. Problems encountered and Resources required Awareness must be created among the students to utilize the mentoring system more effectively to excel in their field of interest. 7. Concluding Notes Upgrading the students in academics by enhancing them to participate in various seminars, paper presentations, workshops and tests. Mentoring also serves as a platform to exhibit the hidden talents of students. Eventually, the students are moved to the next level by setting personal and professional target and achieving the

same Name of the Principal : Dr. M. Jayaraman Name of the Institution : Velalar College of Engineering and Technology City : Erode Pin Code : 638012 Accredited Status : Accredited by NAAC with "A" Grade B.E. (BME, CSE, ECE, EEE and B.Tech(IT) Accredited by NBA) Work Phone : 0424-2244201, 204, 206 Fax : 0424-2244205 Website : www.velalarengg.ac.in E-mail : principal@velalarengg.ac.in Mobile : 9750924402

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

<https://velalarengg.ac.in/vccoe/naac.html>

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

Our Institution Vision: To provide a wide range of Academic and Research Programmes and strive to develop a World Class Centre of Excellence for Learning. 1. Excellence in Academics: A high quality of academic excellence can provide value-added experience for the students. In VCET, the positive outcomes are achieved by designing the curriculum based on the industrial requirements to meet the Global needs and through teaching-learning methods blended with ethical values. It ensures the commitment to academic performance expected of all the students. In addition to the core courses, that students are offered with skill based trainings, project and financial management courses. VCET offers a scholarship of Rs. 1.8 cores to the meritorious students during the year 2019-20. VCET was recognized as a District Nodal Resource Centre for Spoken- Tutorial Project, IIT Bombay as well 380 students and 120 faculty member undergone various courses through NPTEL. All the departments have ICT enabled class rooms equipped with interactive projectors. In addition, implementation of 'College Management System (CMS)' made us to maintain paperless process in sending circulars, test schedule, students and staff attendance, uploading course materials, conduct of online tests, collecting data for various reports like AQAR etc. Upon successful completion of the courses at the end of seventh semester, the 'Fast Track' students are permitted to spend their entire 8th semester in industry as an intern. It improves the students' technical knowledge, skills and employability. VCET also signed Memorandum of Understanding (MoU) with more than 45 industries to have a strong industry connect. 2. Improvement in RD: VCET always encourages the faculty and students, to involve themselves in research. The faculty members and students receive awards and recognition for their projects, funds from research organization. VCET received Rs. 39.80 lakhs from various funding agencies like AICTE, CSIR, ICMR, IEI, TNSCST for conducting 21 programmes/projects during the academic year 2019-20 amongst 135 proposals sent by the faculty members. 114 papers were published in reputed journals and 153 papers were presented in the National/International conference by our faculty members. VCET insist consistent improvement in RD and quality culture in research amongst students and faculty members. VCET having a practice of conduct of Project Expo and Internal Hackathon to identify their innovative thinking level. Several students participated in Smart India Hackathon 2019 held at various places in India and won prizes. 3. Innovation, Entrepreneurship and social responsibility: Entrepreneurship cell in coordination with IIIC is functioning on generating the excitement in the young engineering brains to produce innovation and thus laying the stones of entrepreneurship. Various workshops, seminar, invited talks by successful entrepreneurship are kindling the entrepreneurial skills of our students. To add further, 14 patents and 13 copy rights were awarded. VCET is taking pride of responsible citizens of India be inculcating the good practices towards social responsibility. The clubs like NSS, YRC, RRC, NCC, Rotaract club, Women Empowerment Cell etc to take up the

activities on campus and in the nearby villages.

Provide the weblink of the institution

<https://velalarengg.ac.in/vccoe/naac.html>

8.Future Plans of Actions for Next Academic Year

- To introduce Industry Integrated value-added courses in specialized areas like Artificial Intelligence, Data Analytics, IoT, 3D Printing and AR/VR etc.
- To establish Centre of Excellence in few emerging areas.
- To create research culture among the faculty members and students and motivate them to publish their research work in Scopus/ web of science indexed Journals.
- To encourage the students and faculty members to obtain more patents/copyrights for their innovations.
- To improve the Industry Institute Interactions through MoUs / Consultancy / Projects etc.