



Yearly Status Report - 2018-2019

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	private
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/calendar.html

5. Accrediation Details

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
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7. Internal Quality Assurance System

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

IQAC		
Innovative Teaching Methods	30-Jul-2018 1	34
Revised Assessment and Accreditation Framework of NAAC - An Approach	05-Dec-2018 2	121
Role of IQAC for Improving Quality - Faculty Perspective	29-Apr-2019 1	157
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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	2019 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 File
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 File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

Ranked by famous magazines/websites like Competition Success Review, Data Quest, The Week, India Today etc., under various categories

Activities through NPTEL local chapter - 34 Gold medals and 33 course toppers

Received Rs. 17.36 Lakhs from AICTE and 3 Lakhs from funding agencies like TNSCST, CSIR, ICMR etc.,

Under ISR activities adopted 5 villages through UNNAT - BHARAT ABIYAN scheme funded by AICTE.

Establishing links with more than 40 industries to strengthen Industry-Institute partnership.

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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	Achievements/Outcomes
Quality Publication (by Faculty members)	255 papers were published in reputed Journals, and 196 papers were presented in Conferences
To become active member in PALS-IIT Alumni	Membership enrolled and actively participating in the events organised.
Creation of IIC	Created Institution Innovation Council supported by MHRD, Govt. of India
Academic Audit	Conducted during 27.06.19 to 29.06.19
More enrollment and completion of NPTEL courses	Registered : Faculty - 411 Students - 1804 Successfully completed : Faculty - 82, Students - 200 34 Gold medals, 36 Course toppers
Conducting funded programmes / projects	Details of Funded Programmes organised : No. of sponsored programmes by various funding Agencies: 20 Total amount Received : Rs. 24.47 Lakhs
Apply for funds to organize events	No. of proposals sent : For the conduct of seminar/workshop - 139 Nos. worth of Rs.1.71 crores Major/Minor Research Projects - 25 Nos. worth of Rs.47.5 Lakhs
Conduct national level symposium / seminars/conferences/workshops by all departments	Conducted by all the departments
Ranking by Magazines	Competition Success Review(CSR) - Excellence in Education 2nd Position All India Level DATAQUEST 2019 - 5th position in State level, 16th position National Level The Week Magazine Ranking 2018 - Best Private Engineering College 10th position in State level, 47th Position in South India 71st position in All India level India Today Ranking 2018 - National Level Rank 1st in lowest tuition fee, State Level Rank: 9th in Placement, 10th in Leadership Development, 12th in Intake Quality and Governness, 14th in

Infrastructure and Living Experience,
17th in Academic Excellence

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Management, IQAC	09-Jul-2019

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

Yes

Date of Visit

17-Jun-2018

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2018

Date of Submission

02-Feb-2019

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

To improve the productivity of our institution towards paperless administration, the College Management Software (CMS) 2020 software is in practice in our college. The faculty members can upload the study materials for their courses which can be accessed by the students. All Continuous Assessment Test (CAT) marks, Assignment marks, Seminar/Activity marks can be uploaded in CMS which can be viewed by students at any time. Consolidated internal marks can be generated from CMS itself. All faculty members of the institute apply for different types of leaves and information goes for necessary approval of the same keeping record of total number of leaves consumed by the faculty throughout the year and the balance leave available with faculty. Course wise feedback of the students can also be generated by CMS. Students daily attendance, Resident and Nonresident Students present absent status alerts to parents / guardians through SMS, online

leave/OD application and approval process for students are also maintained in CMS. Gate pass will be generated for student who is departing from hostel by placing thumb on the readers sensor. The gate pass will be handed over to the security in the gate by the student. After placing a thumb in the gate, auto call will be generated to the parents by local language. Arrival of the student information will also be intimated to the parents All the common circulars regarding exams, fees payment details are also sent to parents through SMS using this system Book details, library transaction report, fine report, library visitors register etc. are maintained in the library through this system.

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
MCA	CA	Master of Computer Applications	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
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BE	Biomedical Engineering	25/05/2019	18MCT03- Essential English For Professionals	25/05/2019
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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	Medical Electronics	28/08/2018
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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	Medical Electronics	28/08/2018

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
Biomedical Signal and Image Processing using LabVIEW	30/11/2018	105
Vaastu Shastra Design Application and Office Automation	07/01/2019	22
Python Programming	07/02/2019	58
Multimedia tools	10/12/2018	65
Embedded Systems	02/07/2018	11
MATLAB Its Applications	14/09/2018	32
Recent Trends in Power Generation	18/07/2018	320
CMOS Digital VLSI Design	11/01/2019	101
Smart Mobile Technology Service and Maintenance	05/10/2018	44
Industrial Automation PLC and SCADA	25/01/2019	101
Personal and Professional Grooming	20/05/2019	31
Introduction to AutoCAD Software	28/01/2019	77
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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
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BE	Biomedical Engineering	271
BE	Computer Science and Engineering	175
BE	Electronics and Communication Engineering	22
BE	Electrical and Electronics Engineering	20
BTech	Information Technology	14
MBA	Master of Business Administration	111
BE	Mechanical Engineering	12
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? 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 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

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	100	112
BE	Civil Engineering	60	45	28
BE	Computer Science and Engineering	120	100	110
BE	Electronics and Communication Engineering	180	120	158
BE	Electrical and Electronics Engineering	120	75	79
BTech	Information Technology	120	75	96
BE	Medical Electronics	60	50	30
BE	Mechanical Engineering	120	75	77
MBA	Master of Business Administration	60	70	59
MCA	Master of Computer Applications	60	30	34
ME	Computer Science and Engineering	24	15	10
ME	Applied Electronics	24	5	4
ME	Embedded System Technologies	18	0	0
ME	VLSI	18	0	0

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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	Number of students enrolled in the institution	Number of fulltime teachers available in the	Number of fulltime teachers available in the	Number of teachers teaching both UG
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	(UG)	(PG)	institution teaching only UG courses	institution teaching only PG courses	and PG courses
2018	3028	249	179	31	210

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
210	210	12	40	40	20

[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 fulltime 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 counselling and professional counselling. 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 rolemodels 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, manoeuvring 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	210	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned	No. of filled positions	Vacant positions	Positions filled during	No. of faculty with
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positions			the current year	Ph.D
12	12	0	12	44

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr.E.Ravi	Professor	Fellowship, Indian Geotechnical Society, New Delhi
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	BM	Odd	11/01/2019	26/01/2019
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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	0	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	121	88	73
CE	BE	Civil Engineering	64	38	59
CS	BE	Computer Science and Engineering	101	82	81
EC	BE	Electronics and Communication Engineering	107	96	90

EE	BE	Electrical and Electronics Engineering	96	78	81
IT	BTech	Information Technology	73	51	70
ME	BE	Mechanical Engineering	114	71	62
MS	MBA	Master of Business Administration	55	55	100
CA	MCA	Master of Computer Applications	57	57	100
AE	ME	Applied Electronics	10	10	100
CP	ME	Computer Science and Engineering	8	8	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/Sample%20Student%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	31/05/2019	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)	365	AICTE, ICMR, CSIR	24.07	24.07
Students Research Projects (Other than compulsory by the	365	TNSCST	0.38	0.38

University)

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0

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
Seminar on Trends in Biomedical Engineering	Biomedical Engineering	09/07/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Alzheimer's Patient Movement Tracking and Monitoring using MIWI Technology	Paulson Mathew, Sridevi G, Vanitha R, Vichethra K G: Ms.M.Brindha, Assistant Professor, Department of Biomedical Engineering	TNSCST	18/02/2019	Student Project Scheme (Project Code: BS-040)

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	VCET Innovation Cell	Ministry of Human Resource Development (MHRD), Govt. of India	VCET Innovation Cell	To systematically foster the culture of Innovation amongst all Higher Education Institutions	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
Biomedical Engineering	1
Civil Engineering	1
Electronics and Communication Engineering	3
Chemistry	1

Mechanical Engineering	2
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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	Civil Engineering	6	6.4
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Biomedical Engineering	2
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
An Infrared Sensor Control System for Submersible Pump by Prof. Peter Stanley Bebington, Mr.K.Mohanraj	Published	300478	30/08/2018
Harmonics Minimization by Cascaded Multilevel Inverter by P.Tamilvani, Dr.K.R.Valluvan	Published	2018410413	09/11/2018
An Authenticated Self Defense System by Prof. Peter Stanley Bebington, Mr.K.Mohanraj	Published	305047	27/12/2018
An Intelligent all Weather Mounting System for Solar Panels having Stepper Motor Assembly by Prof. Peter Stanley Bebington, Mr.K.Mohanraj, Ms.R.Priyadharsini, Ms.V.Yoganivedha	Published	2018410229	01/10/2018
Advanced and Integrated Security System for Two Wheelers by Mr.T.C..R.Dinesh	Filed	2018410035	31/01/2018
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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
Hydro Geoc hemical Ch aracteriza tion and Evaluation of Groundw ater Quality in Kangayam taluk, Tirupur district, Tamil Nadu, India, using GIS Techniques	Mr.D.Sakthivel	Springer (Environmental Geoche mistry and Health)	2018	2	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
Feature Selection Using Multi-Objective Modified Genetic Algorithm in Multimodal Biometric System	Dr.S.Mangai	Journal of Medical Systems	2019	3	0	Velalar College of Engineerin g 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/Semina rs/Workshops	20	312	41	27
Presented papers	97	99	0	0
Resource persons	4	6	4	26
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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	Real Time Industrial Gas Tank Monitoring System using IoT, Barcode based Industrial Automation, Business to Business Mobile Application	Neophron Technology, Erode	300000
Information Technology	Android App for Stock Maintenance	Cheran Pipes, Erode	50000
Civil Engineering	Structural design	Rana Constructions Erode	7500
Electrical and Electronics Engineering	Nurse Call System	Lotus Hospital, Erode	38300
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

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

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Computer Awareness Programme at Panchayat Union Primary School, Kathirampatti	NSS Volunteers	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
B Certificate Exam	BCertificate	Deputy Directorate NCC	28
Blood Donation Blood Screening	Best Project of the Year 201819	District Rotaract Organisation 3202	211
Sports Meet Self Development Programme	Best Project of the Year 201819	District Rotaract Organisation 3202	258

Computer Education	Best Project of the Year 201819	District Rotaract Organisation 3202	90
District Sports meet	District Project Implementation Award	District Rotaract Organisation 3202	75
12th District Rotaract Assembly	Highest Registration Award	District Rotaract Organisation 3202	105
Club Bulletin	Outstanding Club Bulletin Award	District Rotaract Organisation 3202	35
Inter District Youth Exchange Programme	District Project Implementation Award	District Rotaract Organisation 3202	35
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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
Drug abuse day	Vellalar College for Women	Seminar	1	28
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
CSIR Sponsored Seminar on Contribution of Mathematical Models in Biomedical Imaging	45	15000	1
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
STTP	Biology for Engineers	IIT, Bombay	04/05/2018	08/05/2018	1
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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
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			participated under MoUs
Sunshiv Electronic Solutions, Coimbatore	14/11/2018	To form a strategic Alliance for providing short term training programme on PCB designing, circuit analysis, troubleshooting, product designing, microcontroller programming using PIC and CAD designing and providing opportunities for the BME student	10

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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
200	181.56

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Campes iLib	Fully	5.8.1	2005

4.2.2 – Library Services

Library	Existing	Newly Added	Total

Service Type						
Text Books	52398	14075013	3774	1739434	56172	15814447
Reference Books	10558	3911781	78	92000	10636	4003781
e-Books	4200	0	50	0	4250	0
Journals	3146	6759832	275	748971	3421	7508803
e-Journals	30935	6166306	188	558535	31123	6724841
CD & Video	5034	0	140	0	5174	0
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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. P. Georgia Chris Seluyna	Sensors Measurement	CMS	10/10/2018
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1150	13	1150	1	1	19	17	100	0
Added	6	1	6	0	0	0	0	200	1
Total	1156	14	1156	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/vcother/innovativevideo.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
400	306.52	120	91.3

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 the locked room. Breakages are duly registered by the faculty concerned. Oral request facilitates intradiscipline 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 readshelves 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 ecofriendly 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. ELibrary, resources, NDLI, INFLIBNET, NAD Repository etc., are the best practices of the library. ??Sports: Indoor and outdoor playspace 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. ? Following Online Exam and Student Feedback Mechanism. ??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: Biogas 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 poweroff 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	Scholar Ship	1250	25000000
Financial Support from Other Sources			
a) National	First Graduate Scholarship from	1109	26200000

	TamilNadu Government		
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 implementation	Number of students enrolled	Agencies involved
Yoga and Meditation	03/09/2018	687	Manavala Kalai Mantram, Erode
Soft Skill Development	03/01/2019	123	D VAZ Institute of Placement Excellence
Remedial Coaching	04/04/2019	45	VCET
Language Lab Training	27/03/2019	240	VCET
Bridge Courses	17/10/2018	53	VCET
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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
2018	Interactive awareness program for GATE examinations (Hi-Focus GATE academy)	230	230	0	50
View File					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Accenta Training	125	54	Aquasub Engineering	36	10

[View File](#)

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	10	BE	BME	London University, UK	MBA

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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
Any Other	3

[View File](#)

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

Activity	Level	Number of Participants
Cultural Activities	Institution	487
Sports Activities	Zonal	47

[View File](#)

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
2018	Ball badminton(Women) Championship	National	1	0	732915121041	E.Jeevitha

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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 cocurricular 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 costudents 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:

8405

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Induction Programme was conducted on 2nd September 2018 for the 20132017 batch. Alumni Induction Programme was conducted on 17th March 2019 for the 20142018 batch

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)

1. 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: 2. Formation of different statutory sub committees comprising representatives from all stakeholders of the college for coordinating important administrative activities of the college. 3. 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
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 meritorious students on various schemes to help socially backward and economically backward students to get into the engineering education.</p>
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • 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 industryinstitute 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 <ul style="list-style-type: none"> o MoUs signed with industries for various activities like consultancy, students' projects, Inplant training etc. o Inplant training is made mandatory for the students from their second year onwards. o Faculty members are also encouraged to undergo inplant training at least two days in a year. o Final year students are encouraged to do Industry oriented projects.
Human Resource Management	<p>A wellestablished HRD cell manages Human Resource of the College. It is responsible for the attraction,</p>

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 200400 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, Scanning, 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.

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 of the registration fee with OD for faculty who are presenting the papers in

national International seminars. • Rs. 1500 1000 cash award for paper presented in International and National Journals. • Sharing of 40 of the consulting revenue to the consultancy team. • Encouraging faculty to enhance their qualification [Ph.D., programme]

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

Teaching and Learning

• Adopting interactive method, projectbased learning, computerassisted 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. • Counselling 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.

Curriculum Development

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 2016/2017 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

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

E-governance area	Details
Planning and Development	Information were shared through SMS system • Virtual Learning System were adopted for the students
Administration	• Praticice 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	• Entire computerization of office and accounts section • College accounts are maintained through Tally
Student Admission and Support	Database are retained in need based software • Eattendance is marked in CMS
Examination	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 support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr. S. Mangai	-	IEEE EMBS	6830
View File				

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	Title of the administrative training	From date	To Date	Number of participants (Teaching)	Number of participants (non-teaching)
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	programme organised for teaching staff	programme organised for non-teaching staff			staff)	staff)
2018	Orientation Programme	-	06/08/2018	08/08/2018	37	0
2019	Implementation of CMS	Implementation of CMS	08/01/2019	09/01/2019	200	36
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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
FDP on Strength of Materials	1	03/12/2018	09/12/2018	7
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
12	12	18	18

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 	<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 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 cocurricular activities and extracurricular activities • Best outgoing student award.

Recommendation for 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, 2019.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	2139100	Conduct Seminars, Symposium, Training Programmes, Project Exhibition, Conference etc.
View File		

6.4.3 – Total corpus fund generated

191910000

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	-	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
2018	Workshop on Outcome based Learning Approaches	28/09/2018	28/09/2018	28/09/2018	64
2018	19th meeting of the IQAC	30/07/2018	30/07/2019	30/07/2019	18
2018	20th meeting of the IQAC	06/10/2018	06/10/2018	06/10/2018	18
2019	21st meeting of the IQAC	03/01/2019	03/01/2019	03/01/2019	17
2019	22nd meeting of the IQAC	21/05/2019	21/05/2019	21/05/2019	18

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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
Save Uterus	15/02/2019	15/02/2019	243	0
Women's Day-"Economic, Social and Cultural Rights of Women"	08/03/2019	08/03/2019	275	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

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 used in hostels
consumption

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
2018	1	1	31/07/2018	1	Computer Awareness Programme	Computer Awareness	37
2018	1	1	02/08/2019	1	Voters Awareness Programme	Human Rights	102
2018	1	1	15/08/2019	1	Cleaning Awareness Programme	Environmental pollution	67

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
College Calendar 2018_19 for all the students	02/07/2018	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	21/06/2018	21/06/2018	700
World Population Day Rally from	11/07/2018	11/07/2018	250

Thindal to Sengodampallam			
Special Meeting on Swami Vivekanandha on commemorate the 125th year of Vivekanandha's Chicago Speech	19/07/2018	19/07/2018	500
Independence Day	15/08/2018	15/08/2018	250
NSS Day celebration	24/09/2018	24/09/2018	150
Teachers Day celebration	05/09/2018	05/09/2018	225
Engineers Day celebration	15/09/2018	15/09/2018	225
National Youth Day celebration. Special Meeting On Indraya Illaingargalukum Vivekanandhar	08/01/2019	08/01/2019	200
Celebration on Harvest Festival Thai Pongal	11/01/2019	11/01/2019	2000
Republic Day celebration	26/01/2019	26/01/2019	500
Womens Day celebration	08/03/2019	08/03/2019	250
World Consumer Rights day	21/03/2019	21/03/2019	50
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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 PlasticPolythene free ? Tree planting programmes ? Waste management ? Ewaste 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: "Kahoot" Kahoot provides learning through creation of educational games. Through this tool, teachers can create

questionnaires, discussions, or surveys that complement academic lessons. The material is projected in the classroom and questions are answered by students while playing and learning at the same time. Kahoot! promotes gamebased learning, which increases student engagement and creates a dynamic, social, and fun educational environment.

2. Objective of the practice Objectives To monitor each student's progress towards learning objectives. To identify strengths and weaknesses of students. To identify areas where the students would benefit from more onetoone teaching, more challenging learning opportunities, or a review of foundational knowledge for that subject. Intended Outcome Enrich the quality of students learning in class room. Improve the quality of teaching and learning beyond what is provided in conventional classrooms. Enhance student attainment through qualitative feedback. Underlying principles / Concepts of this practice To improve the administration of academic processes, encouraging collaboration, and facilitating communication between teachers and learners.

3. The Context Students are very much interested in learning through interactive communication tools rather than black board teaching. Making students to involve in Kahoot teachinglearning practice brings out the hidden knowledge of students.

4. Practice The students can be engaged in Kahoot activity anytime and anywhere. An extra practice on the studied concepts is given to students and their performances are analyzed through assessments.

5. Evident of Success Through this learning methodology more number of students got placed in companies and scored well in competitive exams.

6. Problems encountered and Resources required Smart phone/Laptop is mandatory with high speed Internet connection.

7. Concluding Notes The student's academic performance is improved by engaging them to participate in educational online quiz. Kahoot serves as a platform to assess the student's knowledge in subject as well as managing time.

BEST PRACTICE - 2

1. Title of the Practice : "NPTEL LOCAL CHAPTER"

2. Goal Velalar College of Engineering and Technology has been established as NPTEL Local Chapter on August 2016. Local Chapter will help students and faculty members to earn online certification for NPTEL courses, the highlight being the certification exam through which the student gets an opportunity to earn a certificate from the IITs. As Local Chapter of NPTEL, college will also become the repository of study materials of 1000 courses. The main objectives are:

- To enhance the quality of engineering science education in the country by developing contents for undergraduate and postgraduate curricula using video and web based courses.
- Courses cover the syllabi prescribed by universities and approved by AICTE. Course contents will be useful for teacher training and through them improve the quality of students.
- To facilitate the competitiveness of Indian industry in the global markets through improving the quality and reach of engineering.
- Entire NPTEL content shared on the LAN - accessible to all for viewing, download and copying
- Allow freedom in education.

3. The Context NPTEL started offering certification on courses offered in the open online mode. The objective of enabling students to obtain certificates from courses is to make students employable in the industry or pursue a suitable higher education programme

The features are:

- The course enrolment and learning is free while the exam comes for a nominal fee.
- The courses are offered by the faculty of IITs, CMI, IMSc, etc which are of duration 10, 20 or 40 hrs.
- Lessons and assignments are released every week.

Also there is a discussion forum in which students can interact with the faculty member directly.

- At the end of the course, an in person proctored exam is conducted (which is optional) and the student gets a certificate.

4. The Practice Student/Faculty may access NPTEL courses utilizing any of the following methods:

- Through the official NPTEL website <http://nptel.ac.in>. These videos may be downloaded in MP4, FLV and 3gp formats.
- As video streams on demand through YouTube <http://www.youtube.com/iit>. They can be downloaded using any browser addons.
- Access in Digital Library in college campus. Institutions provide hard disks and receive copies of these courses free of cost at the NPTEL office, IIT Madras.

5. Evidence of Success VCET has been

established as a NPTEL Local Chapter, a project funded by the Ministry of Human Resource Development (MHRD) association with IITs and IISc. The NPTEL Local chapter provides platform for constant learning and updating knowledge for the everchanging environment and market realities. The Videos in local chapter may be viewed by the students any time anywhere enabling them to clear the certification course. 6. Problems encountered and resources required Effective utilization of this Local chapter by an introvert student should be monitored periodically. 7. Concluding Notes We have found using web enabled learning to be a highly successful way to encourage student reading and preparation for subject thus freeing up more class time for active learning exercises.

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. 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.2.4 cores to the meritorious students during the year 2018-19. VCET was recognized as a District Nodal Resource Centre for Spoken-Tutorial Project, IIT Bombay as well 367 students and 109 faculty member undergone various courses through NPTEL. All the departments have ICT enabled class rooms equipped with interactive projectors. The implementation of 'College Management System (CMS)' made us to maintain paperless process in sending circulars, test schedule, uploading course materials, conduct of online tests, collecting data for various reports like AQAR etc. A new system called 'Fast Track' has been introduced. The students can take up two courses additionally during their sixth and seventh semesters, one course through SWAYAM-NPTEL under credit transfer facility instead of three courses offered during 8th semester. Upon successful completion of the courses at the end of seventh semester, the student is permitted to spend his 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 40 industries to have a strong industry connect. Regarding Research, the faculty members and students receive awards and recognition for their projects, funds from research organization. VCET received Rs. 18.32 lakhs from various funding agencies like AICTE, CSIR, ICMR, TNSCST for conducting 26 programmes/projects during the academic year 2018-19 amongst 145 proposals sent by the faculty members. 91 papers were published in reputed journals and 212 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 students innovative thinking level. Three batches of our students participated in Smart India Hackathon 2019 held at various places in India and won prizes. 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 entrepreneurs are

kindling the entrepreneurial skills of our students. To add further, 2 patents and 3 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 obtain 12(B) status from UGC. Start the preparatory work to obtain NBA Accreditation under Tier - I. Motivate the Faculty and students in the area of IPR to patent their innovative products. Collaboration with institution and industries to be strengthened. Creation of Institute Innovation Council Industry Oriented curriculum and syllabi with more flexibility (R 2018). Implementation of Learning through Online Tools Implementation of AICTE initiatives. Digital platform for placement practice tests. Encouraging students to participate in the International events.