



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

## **VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

**PERUNDURAI ROAD, THINDAL, ERODE**

**638012**

**[www.velalarengg.ac.in](http://www.velalarengg.ac.in)**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**December 2021**

# 1. EXECUTIVE SUMMARY

---

## 1.1 INTRODUCTION

Vellalar Educational Trust is formed fifty one years ago, to provide equal opportunities to the rich and the poor without any discrimination also have more focus on women empowerment. This trust has been aiming its noble intentions endowed to raise this institution to greater heights since its inception in all the spheres, such as academic, sports, placements, and institution – industry interaction and so on.

Velalar College of Engineering and Technology, one of the best-known self-financing co-educational institutions aim to achieve excellence in Engineering education, with a strong emphasis on the uplift of rural students who have only limited avenues for higher education. The college has been established by the Vellalar Educational Trust in the year 2001 with all in-built infrastructural facilities. Our College offers quality education to empower the students to face the challenges in the global competitive environment after their graduation.

The College started with three branches of undergraduate courses, and has grown to a multidisciplinary institution with Eight UG and Four PG Courses, and Three research programmes. The growth of the College has been well planned to excel and aimed to meet the specific needs of our industry and the growing academic interests of the student community.

### Vision

To provide a wide range of Academic and Research Programmes and strive to develop a Centre of Excellence for Learning.

The vision of our Institution is to provide **quality education** in engineering, technology & management fields and also to provide awareness, encouragement and resources among students and faculty members to **excel in research**.

The Institution being keen on attaining excellence on the academic front by fortifying the teaching – learning process with relevant execution of a balanced implementation of such educational philosophies and practices that are relevant to the contemporary world of technology with an ample significance being attached to the timeless core values such that the conceptual upbringing of the learners happens with excellent virtues expected of prospective professionals.

The Institution also focuses on undertaking activities related to advanced research through various avenues starting from self-generated & self-directed ones to the funded research on a global scale with a collaborative orientation both in the Process and Product based pursuits in order to mould the Institution into a centre of excellence for research.

### Mission

1. To impart essential knowledge to the students through quality education, training and research activities.
2. To inculcate the students with Societal Awareness, Professional Ethics and Leadership Qualities.
3. To mould the students as high quality Engineers, Technocrats, Scientists, Administrators and Entrepreneurs.

In order to achieve the Institute's Vision, we strive constantly to **make every student as a potential candidate with high competency level to meet out the national and global challenges** through concrete curriculum design by integrating industrial and societal needs and through implementing effective teaching and learning process. The students are provided with skills to meet the competitive technologies through skill development programs. The institution also provides insight towards developing the required expertise and for developing higher order awareness of and competence in contemporary and emerging technologies while possessing necessary social consciousness for offering realizable solutions for societal problems with commitment to overall development.

The institution also focuses more on implanting the professional behaviours, leadership qualities, ethical and moral values in the young minds of students. By offering Courses in Universal Human Values, Entrepreneurship development and Professional Ethics as a part of curriculum, we impart the knowledge on human values, ethics & leadership qualities to the students which they can imbibe and cultivate in their personal and professional lives.

The Institution stands for taking both macro level and micro level requirements and processes into consideration, leading to comprehensive development of quality graduates equipped with relevant knowledge, skills and attitude, who are not only Industry-ready but also Human Resources with a holistic personality.

The vision and mission statements define the institute's distinctive characteristics in addressing the needs of stakeholders involved. In adherence to the above vision and mission, and the norms of AICTE and UGC, college management constituted a Governing body. All the members of the Governing Body participate actively, and with their extensive experience, and leadership skills contribute for growth and development of the institution.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

1. Excellent Placement Record by leading software and core industries - More than 90 % of eligible undergraduate students get placed every year in leading companies.
2. More than 25% of faculty members are with Ph.D. qualification and more than 16% of faculty members are pursuing Ph.D.
3. It has a strong Industry-Institute- Partnership Cell and Entrepreneurship Cell funded by AICTE, New Delhi.
4. Wipro Technologies honoured and accredited VCET as a Trusted Academic Partner.
5. Signed MOU with Infosys campus connect (an Infosys Industry-Academic partnership program).

6. The whole campus is well connected through wireless networks with access to internet with 500 mbps connectivity.
7. The faculty and students can access E-journals [ASTM, J-Gate, Springer, Mc Graw-Hill, ASCE, ASME and IEEE] and 6000 NPTEL video courses through Wi-Fi.
8. The College has secured a good image in the public. It is the most sought private engineering college in this region, by the students and parents.
9. Experienced, dedicated and highly qualified faculty members.
10. Constant encouragement given for faculty members in pursuing research leading up to Ph.D.
11. Funded Projects are being undertaken from leading funding agencies.
12. Eco – friendly and amicable working atmosphere
13. Computerized central library with about 70000 of volumes, and 263 periodicals
14. Excellent Digital library for online resources such as databases, e-journals, e-books. These e-resources are accessibility anywhere within our campus at any time.
15. Flying a fleet of buses, which is made available to the students and the staff for commuting from various parts of erode district.
16. Orientation courses are conducted for the junior faculties.
17. Hostel facility to accommodate 250 men and 500 women students is available.
18. Special coaching classes at the language laboratory to improve the soft skills and employability of students.
19. Parents' meets are organized once in a semester to take their feedback and take corrective actions.
20. Medical care is available in the hospital run by our trust which is located very near to our Institution.
21. The college houses indoor and outdoor sports facilities like gymnasium, Table Tennis and others.
22. The college is situated in a 25 acre campus, in the Sub urban area of Erode.

### **Institutional Weakness**

1. International collaboration with foreign universities and industries need improvement.
2. Industry Institution Interaction to be strengthened.
3. Majority of students are from rural areas, so communication skill of the students needs to be improved.
4. Lack of patents.
5. Consultancy activities to be improved.

### **Institutional Opportunity**

1. Students' project internship is encouraged in industries and national laboratories.
2. Innovation in teaching – learning process.
3. Development of web-based online training courses.
4. Preparing students for Competitive Examinations like GATE, BEC, TOEFL, GMAT etc.

### **Institutional Challenge**

1. Collaboration/MoUs with foreign universities.
2. Students with dissimilar background.
3. Balancing administrative, academic and research work.
4. A constant change in technology challenges the employability of the students.

5. To promote study-abroad and student-exchange programme for higher semester students.
6. Exposing the teaching faculty to the Industrial scenario and get them trained in an industry.
7. Changing in an economical circumstances leads to impulsive future.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

VCET offers quality education through an innovative curriculum based on the current technological developments. A competent curriculum is given to the students considering the guidelines from the statutory bodies like AICTE, UGC, NBA, Anna University and Autonomy regulations. Stakeholder's recommendations are considered while framing the curriculum and syllabi. An Outcome Based curriculum is adapted with required curricular components catering the needs of the current industry scenario through Choice Based Credit System (CBCS) from the academic year 2016-2017. The Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs) are framed based on the Graduate Attributes (GA) prescribed by NBA and other professional societies such as ACM, IEEE, IET, ASME, etc. Course Outcomes (COs) for each course are prepared while framing the syllabus and the same are assessed after the end semester examination. Industry integrated courses, MoUs partnered with top corporate, NPTEL / SWAYAM courses, Internships, in plant trainings, Industrial Visits, Value Added Courses, Alumni interactions, and other co-curricular activities provide students with a study structure having relevance to the national and global needs and these along with soft skills training, enable the students more competitive and industry ready. The revision and updating of syllabus and curriculum are made based on the recommendations and suggestions from all the stakeholders and it is reviewed and approved in the Board of Studies (BoS) meeting. It is then approved in the Academic Council and Governing Council. The curriculum include courses such as Environmental Science and Engineering, Professional Ethics, Universal Human Values, Principles of Management, Total Quality Management, etc., to address the issues relevant to Gender, Environment and sustainability. The CBCS provides an academic flexibility to adopt an interdisciplinary approach in learning through open electives. Various academic and extracurricular activities are executed as per institutional academic calendar. A well structured feedback is used to gather the suggestions and recommendations from stakeholders'. Feedback from all stakeholders that is, from students, faculty, parents, alumni, academic experts and industry experts is collected periodically on curriculum, facilities and services offered by the institution. It is analyzed and the inputs are used for succeeding planning for performance improvement.

### Teaching-learning and Evaluation

VCET has effectively applied student centric learning methods to gain Outcome-Based Education (OBE) through experimental, participative, and problem-solving methodologies by forecasting the growing need of innovations in teaching learning scenario.

Our institution provides an induction program for first year students to understand the college environment, facilities, regulations and procedures.

Academic Calendar is prepared prior to the commencement of classes by a committee comprising of the Principal and the Controller of Examinations considering the regulations regarding the number of working days, the number of assessments to be conducted for both theory and laboratory courses.

Teaching plans are prepared by the individual faculty members prior to commencement of classes with the approval of head of the department to ensure the completion of syllabus. Regular learning evaluation of students are done through continuous assessment tests, class tests, model examinations, case studies, assignments in addition to the end semester examinations to measure the effectiveness of learning.

Slow learners and Advanced learners are identified through evaluation performance. Slow learners are supported by providing guidance through mentoring system with the help of remedial coaching classes. Fastrack system is provided for advanced learners to complete the prescribed courses earlier to felicitate them for undergoing internship training in industries during their end semester. In addition, advanced learners are encouraged to pursue SWAYAM - NPTEL courses funded by the Ministry of Human Resource and Development, Government of India. Advanced learners are motivated to participate in national level competitions like Smart India Hackathon etc.

Value Added Courses are organized to upgrade the knowledge of students in emerging technologies. Project exhibitions, symposiums and conferences are conducted to help students to bring their ideas into a common forum. Student Personality Development classes and English refresher courses are conducted periodically to enhance proficiency of the learners from diverse background.

Emphasis is given on Information and Communication Technology tools based teaching-learning to make the process attractive. Information and Communication Technology tools are used by faculty members to enhance the teaching-learning process among the students through more interactive sessions. Feedbacks and academic audits are used to monitor the quality in teaching, learning and evaluation processes.

### **Research, Innovations and Extension**

VCET excels in instituting various platforms for research, innovation and extension activities. The institution has well-defined Research Policy with Code of Ethics and outreach programmes. Research culture is promoted in our institution with the help of Research & Development Cell. The objective of the Cell is to provide adequate facility to researcher's thereby promoting research culture in the campus. To ensure the quality of the research in the Institution, the Research Council evaluates the funding/research proposals and recommends qualified proposals for submission. Seed money is provided to the faculty members enabling them to submit research proposals for funding. Our faculty members, along with the students, carried out several research projects with various funding agencies like All India Council for Technical Education, Tamil Nadu State Council for Science and Technology. The Institution has more than 59 highly qualified Doctorates and about 37 are pursuing Ph.D. in different areas. Library resources including e-journals and e-books of repute and well equipped computer systems are made accessible to the students and faculty.

The institution encourages the faculty members to publish papers in Conferences / Journals in national and international level. Institute motivates them in authorizing books, publications for updating their technical familiarity. The output of these research pursuits is resulting in many research publications and few patents. A guidelines for plagiarism prevention is in practice and plagiarism detection is done using URKUND software. Our institution has good number of publication in Scopus/UGC indexed journals. The institution has established a good network with neighbouring community through National Service Scheme (NSS), Rotaract Club, Youth Red Cross (YRC), Red Ribbon Club (RRC), Unnat Bharat Abhiyan (UBA) and other extracurricular activities. The Volunteers of NSS, Rotaract, YRC and RRC continuously conducted various extension and outreach activities like Tree Plantation, Cleaning and Awareness Camp, Blood Donation Camp, Medical camp, Eye Checkup Camp and Swachh Bharath campaign. The Institution marks systematic efforts to initiate

collaboration and MoU's with various industries and agencies. The institution has 39 functional MoUs and 801 collaborative activities with reputed industries, consultancy firms and professional bodies.

### **Infrastructure and Learning Resources**

VCET traces its roots in 2001 when the farsighted visionaries of the soil led a mission to educate rural, underprivileged sections of the society to become leaders and contributors to every sector of the society. Our institute is located in 25.61 acres of sprawling land with build-up area of 56,572 sq.m. All the sixty-six class rooms, two conference halls and three seminar halls have been equipped with ICT tools. They ensure the conducive environment for teaching and learning process. VCET has an exclusive language laboratory. 49 laboratories are established with more spacious with state-of-the-art facilities. To meet out the curriculum requirement, the labs are fully equipped with machineries; tools in the central workshop. Sophisticated equipment for research purpose is also available with customized software. Instructions boards, first aid, fire extinguishers and all other safety measures are provided in the laboratories.

Central library is stacked up with collections of Book Volumes - 70192, Titles – 19681, National Journals – 157, National Magazine – 25, International Journals – 81, e-Journals – 208, Non-Book Materials – 5330, Back Volumes – 6286 and Dissertations – 1479 for the enrichment of faculty and students. Books are classified according to D.D.C Scheme with 300 seating capacity. It provides Online Public Access Catalogue (OPAC) service is provided for the users in addition to the other usual services like photocopying and printing facilities. Thirty-two terminals with head phones and mikes are available in the digital library section with Internet access facility to facilitate access to the DELNET, NPTEL, e-books and IEEE ASPP online resources.

VCET has 500 Mbps internet connectivity with campus wide network connecting 1131 computers with Wi-Fi facilities in the campus. Also, Institution has sufficient facilities for games, yoga centre, modern gym, etc. Video Conferencing facility, CCTV cameras for security purpose are available in the campus. The institute maintains optimal financial resources and skilled manpower for the upkeep of facilities, based on the recommendations of the other statutory, non-statutory bodies and committees concerned. VCET has ATM, lift and 250 kVA generators for ensuring the UPS for all computer laboratories and filtered R.O water system are available.

### **Student Support and Progression**

VCET has always promoted academic excellence by providing scholarships to the needy students. It is not only to help students in monetary terms but also to motivate them to pursue their technical education. The institution conducts plethora of activities for the holistic development of the capacity of the students in areas like soft skills, language and communication skills, life skills and awareness of trends in technology. As many as 150 programmes were conducted during the last five years in order to enhance the skill development of the students. Besides these, the institution has organized nearly 20 programmes exclusively for providing guidance for competitive examinations and career counseling. The highest annual package of the institute's students getting placement through the Placement cell is 6.5 lakhs. Students who aspire to do higher studies prefer to choose VCET again and this indicates their faith in the institution which moves towards the zenith of excellence. VCETians brought laurels in sports meet at inter-university levels and centies too in both individual and team events like ball badminton, cricket, basket ball, volley ball, relay, triple jump, chess, hammer throw, shot put and kho-kho. The institution with its dynamic Alumni Association contributes much to the curriculum design. Alumni Induction programmes were conducted regularly and Alumni Decade Meet was conducted 28.01.2018.

Besides this, Alumni Chapters were also inaugurated at Chennai, Bengaluru and Coimbatore. The main aim of the alumni chapters in the metros was to gather the alumni to provide opportunities in the wider area, grouping them in their respective locations and to share their experience for the betterment of their alma matter. The institute with its student councils like the association in each department regularly conducts events for the upliftment of the students' community. Variety of clubs like English Literary Association, Toast Masters' Club, Viscom Club, NSS, NCC, RRB, YRC, Green Club and Rotaract Club contribute much to the shaping of the budding technocrats. Thus VCET lends its hands for students support and progression in all the ways it could.

### **Governance, Leadership and Management**

A process by which an executive can direct, guide, and influence the behavior and work of others in order to achieve specific goals in a given situation is known as leadership. Leadership has the ability to persuade a group to achieve a common goal. It is the human factor that binds a group together and drives them to achieve their objectives. The ability of an organization to set the tone from the top by clearly communicating the strategic plan, culture, values, and behaviors, as well as demonstrating how they are embedded throughout the organization, is referred to as leadership.

This criterion explains how an organization's governance works, as well as the common instructions, values, ethics, and policies that employees must follow. The roles of various statutory and non-statutory committees are discussed. Effective leadership qualities are required for the successful implementation of strategic plans. The proper documentation explains the successful implementation of AICTE initiatives, as well as the planning and execution of co-curricular and extracurricular activities.

Strategies are flexed at a rapid pace in this fast-paced, technologically enabled world. As a result, an e-governing system is used to implement effective leadership and clarity around an organization's purpose in order to align decision-making with strategy. The functions of various functional bodies and their roles are elaborated through the organogram structure.

There are various welfare schemes, policies, and financial support provided to faculty for paper presentations, journals, and IPR activities. The Management's assistance and benefits are explained. Financial power delegation and financial auditing procedures are included. The institute's budget allocation, utilization, and public accounting are discussed. Third parties conduct internal audits at regular intervals. The Vellalar Educational Trust auditor conducts the final audit, also known as an external audit.

The institute's progress after the first cycle of accreditation is kept track of. Innovative practices for the teaching-learning process are included in the new implementation of best practices. IQAC keeps track of the institute's quality-improvement initiatives and generates reports.

### **Institutional Values and Best Practices**

Institutional values and best practices in Velalar College of Engineering and Technology (VCET) strive to transform the students as holistic personality, responsible citizen and skilled engineers. They are trained with moral and ethical values. Education for women is emphasized by promoting gender equity. The women are ensured safety and protection in the campus. VCET is committed to adapt various methods in order to conserve the energy and environment for the future. Our institute initiates measures to keep environment clean and green



through installation of sewage treatment plant, biogas plant, waste management, rainwater harvesting, plastic free and pedestrian friendly campus. VCET carries out recycling of waste water, proper disposal of solid, liquid, biomedical waste and e-Waste in association with non-governmental organizations and arranges quality audits on energy and environment periodically. The institute provides ramps, lifts, wheel chairs, washrooms, tactile path, and human assistance to access the campus and also provides assistive technology software and scribe assistance to assist the disabled friendly in academics.

The clubs and committees of our institute organizes campaigns on social living, blood donation, tree plantation, voting rights, health checkups beyond the campus. The institute follows a code of conduct for students, Staff, Principal and administrators. Students are encouraged to participate in communal and cultural festivals like Pongal, Deepavali, Onam, Ramzan, Christmas and others in order to promote communal harmony. National important days are observed to make the students aware of the importance of the national leaders and events.

Our institution practices yoga and meditation as a tool for empowerment of youth. VCET rises to occasions and educate all stake holders on universal human values and ethical responsibilities. The institute is committed to develop a centre of excellence for learning through academic and research programmes.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	PERUNDURAI ROAD, THINDAL, ERODE
City	ERODE
State	Tamil Nadu
Pin	638012
Website	<a href="http://www.velalarengg.ac.in">www.velalarengg.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	M. Jayaraman	0424-2244201	9750924402	0424-2244205	iqacvcet@gmail.com
IQAC / CIQA coordinator	R. Kumaravelan	0424-2244202	9443563481	-	rkumaravelan@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of Establishment, Prior to the Grant of 'Autonomy'	01-01-2001

Date of grant of 'Autonomy' to the College by UGC		27-05-2016		
<b>University to which the college is affiliated</b>				
<b>State</b>	<b>University name</b>	<b>Document</b>		
Tamil Nadu	Anna University	<a href="#">View Document</a>		
<b>Details of UGC recognition</b>				
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>		
2f of UGC	30-01-2015	<a href="#">View Document</a>		
12B of UGC				
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day,Month and year(dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	30-06-2021	12	

<b>Recognitions</b>	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	PERUNDURAI ROAD, THINDAL, ERODE	Urban	25.61	56572

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Civil Engineering	48	HSC	English	60	33
UG	BE,Bio Medical Engineering	48	HSC	English	120	115
UG	BE,Computer Science And Engineering	48	HSC	English	120	120
UG	BE,Electrical And Electronics Engineering	48	HSC	English	60	55
UG	BE,Electronics And Communication Engineering	48	HSC	English	180	173
UG	BE,Mechanical Engineering	48	HSC	English	60	47
UG	BE,Medical Electronics	48	HSC	English	60	54
UG	BTech,Information Technology	48	HSC	English	120	120
PG	ME,Computer Science And Engineering	24	BE	English	24	7
PG	ME,Electrical And Electronics Engineering	24	BE	English	9	4
PG	ME,Electronics And Communication	24	BE	English	24	8

	Engineering					
PG	MBA,Business Administration	36	Any Degree	English	60	53
Doctoral (Ph.D)	PhD or DPhil,Electrical And Electronics Engineering	72	ME	English	20	2
Doctoral (Ph.D)	PhD or DPhil,Electronics And Communication Engineering	72	ME	English	20	2
Doctoral (Ph.D)	PhD or DPhil,Physics Science And Humanities	72	M.Sc	English	20	2

**Position Details of Faculty & Staff in the College**

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	38				32				173			
Recruited	23	15	0	38	15	17	0	32	59	114	0	173
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				61
Recruited	37	24	0	61
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				21
Recruited	15	6	0	21
Yet to Recruit				0

### Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	23	15	0	8	9	0	3	1	0	59
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	7	8	0	56	113	0	184
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	328	2	0	0	330
	Female	398	0	0	0	398
	Others	0	0	0	0	0
PG	Male	26	0	0	0	26
	Female	46	0	0	0	46
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	11	0	0	0	11
	Female	14	0	0	0	14
	Others	0	0	0	0	0



<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	26	17	22	20
	Female	32	32	34	52
	Others	0	0	0	0
ST	Male	0	0	0	1
	Female	0	1	1	0
	Others	0	0	0	0
OBC	Male	326	313	309	390
	Female	419	386	381	455
	Others	0	0	0	0
General	Male	15	12	10	12
	Female	7	9	4	12
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		825	770	761	942

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Bio Medical Engineering	<a href="#">View Document</a>
Business Administration	<a href="#">View Document</a>
Civil Engineering	<a href="#">View Document</a>
Computer Science And Engineering	<a href="#">View Document</a>
Electrical And Electronics Engineering	<a href="#">View Document</a>
Electronics And Communication Engineering	<a href="#">View Document</a>
Information Technology	<a href="#">View Document</a>
Mechanical Engineering	<a href="#">View Document</a>
Medical Electronics	<a href="#">View Document</a>
Physics Science And Humanities	<a href="#">View Document</a>

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Multidisciplinary education is an academic and pedagogical approach to develop multiple capacities in the intellectual, aesthetic, social, physical, emotional, and moral domains, among the students inside and outside the classroom, by integrating formal and informal learning opportunities and teaching, research and community engagements and promoting cross-disciplinary and interdisciplinary perspectives and academic practice. NEP 2020 suggests that the colleges will be “gradually phasing out the system of ‘affiliated colleges’ over a period of fifteen years” i.e. by 2035. The phasing out of the system of ‘affiliated colleges’ shall be supported by the mentoring of the affiliated colleges by the respective affiliating university. We have mooted this to implement in our institution and various steps have been taken including attending seminars and conferences related to NEP 2020, identifying bench marks from various institutions for multidisciplinary courses and closely following the norms and regulations of the affiliating university.
2. Academic bank of credits (ABC):	As per the UGC Notification on University Grants Commission Notification(28th July, 2021) “Academic Bank Account” means an individual account with the Academic Bank of Credits opened and operated by a student, to which all academic

	<p>credits earned by the Student from course(s) of study are deposited, recognised, maintained, accumulated, transferred, validated or redeemed for the purposes of the award of degree/diploma/certificates etc. by an awarding institution. Academic Bank of Credits shall be established, on the lines of the National Academic Depository shall have a dynamic website providing all details of Academic Bank of Credits and its operational mechanism for the use of all stakeholder of higher education. Academic Bank of Credits is essentially a credit-based, and highly flexible, student-centric facility. Our institution has been in the process of getting approval to apply for registration with Academic Bank of Credits from statutory authorities such as Governing Council, Academic Council and university authorities. Courses undergone by the students through the online modes through National Schemes like SWAYAM, NPTEL, V-Lab etc. or of any specified university, shall also be considered for credit transfer and credit accumulation.</p>
<p>3. Skill development:</p>	<p>Integrating vocational education with general education is the most promising way to provide for holistic development of the students, equipping them with knowledge, skills and competencies which would prepare them for life and work. We have identified to collaborate with industries for internship to expose the students to the work environment and get the experience of hands-on practice. We are in the process of developing some bridge courses of varying duration depending on the pre-requirements of the course a student intends to move to horizontally.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>NEP 2020 envisages a greater Promotion of Indian Languages, Arts and Culture. The NEP document elaborates on the cultural and knowledge heritage of India, the importance of Indian Philosophy in the renewed perception and influence on the world events, the importance of the multilanguage-multicultural background of the country and the necessity for revitalizing these realms for the betterment of the country and the world. This strategy calls for a paradigm shift in our immediate past educational system (which, in general opinion, has devalued the Indian traditional knowledge). To bring back the glory of the ancestral values and knowledge and a line with AICTE, guidelines the institution has introduced a mandatory course on</p>

	<p>'Indian Constitution and Traditional Knowledge' for all the UG students. To augment the lectures in the class room, standard text books on Indian Constitution and Cultural heritage of India have been given to the students. Through the efforts of Fine Arts Club, competitions are being regularly conducted in the regional language viz Tamil on the contemporary topics on environment, energy conservation, etc., as well as topics on the cultural and ethnic values of India. The Parent University has also introduced two UG courses (B.E.- Civil Engineering and Mechanical) Engineering in Tamil Medium.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Realizing the importance of Accreditation vis-a-vis Washington Accord, the college introduced the OBE concepts in its curriculum, Syllabi and evaluation. Five out of eight UG programmes (namely B.E- Bio-Medical Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and B.Tech. Information Technology) got accredited by NBA. In this process, the OBE has been implemented in all stages of Teaching-Learning Process. In line with the Graduate Attributes, PEOs and Pos referred in the NBA documents; markers have been developed and disseminated to the stakeholders. The PEOs have been established considering the factors such as Preparation, Core Competence, Breadth Professionalism and Life Long Learning. These are aligned with institute Vision and Mission and Departments' Vision and Mission. Pos and PSOs have been mapped with PEOs. Course outcomes have been defined for all the courses and the correlation strength with various POs have also been specified. In the evaluation process (Continuous Assessment and Semester Examination), the performance of the students in each course are linked to the POs and there after the PEOs and attainment is evaluated. The loop is closed on 360° feedback mechanism to continuously monitor and achieve the Outcome Based Education. Various committees in the College and Department level, keep assessing the attainment every semester. Documentary evidences are maintained so as to have a peer level evaluation.</p>
<p>6. Distance education/online education:</p>	<p>There is a perceptible change in the modes of the Teaching-Learning all over the world and there is a significant shift from all class room teaching and</p>

Learning to partly classroom partly online Teaching-Learning. This is exhibited in the worldwide popularity of Online education like MOOCs, etc. India is also keeping abreast in this new paradigm. We encourage our students and faculty to register and write examinations under SWAYAM-NPTEL for several years. Under our autonomous system, necessary approvals have been obtained to include the Credit Transfer Scheme to our students. Thus, the credits earned from SWAYAM-NPTEL are considered as replacements of elective courses. The list of such courses, are approved by the chair person before the beginning of the semester so that students register for those courses which are relevant for that particular curriculum and not repetitive/duplicative in nature. The online courses have also enabled the students to complete the credit requirements by the 7th semester and in 8th semesters. Students can take up full time internship in suitable industries. This doubly benefits the students to acquire skills required by the industry and also a favorable career opportunity.

## Extended Profile

---

### 1 Program

#### 1.1

##### Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
15	15	15	14	14
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 1.2

##### Number of departments offering academic programmes

Response: 5

### 2 Students

#### 2.1

##### Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
3196	3228	3226	3214	2905
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

##### Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
949	844	811	758	692
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 2.3

**Number of students appeared in the examination conducted by the Institution, year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3178	3204	3199	3181	2870
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 2.4

**Number of revaluation applications year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	223	272	272

## 3 Teachers

### 3.1

**Number of courses in all programs year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
369	344	334	316	321
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.2

**Number of full time teachers year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
243	225	221	242	254
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.3

**Number of sanctioned posts year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
243	225	221	242	254
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4 Institution****4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
800	770	761	942	816
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.2****Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
673	762	762	720	720
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.3****Total number of classrooms and seminar halls****Response: 71****4.4****Total number of computers in the campus for academic purpose****Response: 1134**



## 4.5

**Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
259.12	434.21	437.18	453.64	382.07

NAAC

## 4. Quality Indicator Framework(QIF)

---

### Criterion 1 - Curricular Aspects

---

#### 1.1 Curriculum Design and Development

**1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.**

**Response:**

##### **Curriculum design**

The curriculum is specially designed to ensure that the students have the required domain knowledge, skills and attitude. It is developed with the views on contemporary changes, and development objectives in the societal context. A well structured procedure is followed for designing the curriculum. The process for designing the program curriculum is done regularly to ensure continuing suitability, adequacy and effectiveness. The design process includes the points gathered after carefully assessing the opportunities for enhancement, industrial needs, suitable employability, innovation, research and development of entrepreneurship skills among the students.

##### **Outcome Based Education**

The Institution's Outcome Based curriculum is integrated with the Credit distributions and guidelines of higher learning institutions from India/Abroad, Statutory bodies AICTE/UGC /Anna University, Professional bodies including Institute of Electrical and Electronics Engineers(IEEE), Institutes of Electronics and Telecommunication Engineers (IETE), Institution's Choice Based Credit System (CBCS) Regulations, Program Educational Objectives (PEOs) and Graduate Attributes (GAs) of National Board of Accreditation (NBA) and the curriculum is well designed.

##### **Choice Based Credit System**

The entire Undergraduate and Postgraduate program offered by the Institution adopt Choice Based Credit System (CBCS) from the academic year 2016-2017 onwards. Major revisions of the regulations along with the curricula and syllabi are done once in four years. However, minor revisions as and when required, recommended by the Program Assessment Committee (PAC), Department Advisory Board (DAB) and Board of Studies (BoS) are incorporated in the regulations/curricula/course content after the approval of Academic Council. The overall curriculum is prepared through a consultative process among various stake holders. Initially a brainstorming meeting is arranged with all the stakeholders by carefully considering the important parameters such as Department Vision, Mission, Program Educational Objectives (PEOs), POs, PSOs, inputs from external stakeholders and benchmarking of curriculum against similar programs run by leading educational institutions in India and abroad. The drafted curriculum and the syllabi is reviewed in Board of Studies meeting by the BOS members and the recommendations suggested in Board of Studies meeting by the BoS members are incorporated in the curriculum and syllabi. The curriculum and syllabi is then submitted to Academic Council and Governing council. The approved curriculum and syllabi are submitted to the Controller of Examination, and then it is followed by the respective programs. COs for each course is framed along with the syllabus, and the same are assessed after the end semester

examination. The institute took up Bloom's Taxonomy to deliver course contents to encourage higher-order thought in our students by building up from lower-level cognitive skills.

### Curriculum on National/Global Relevanc

The curriculum on par with global standard facilitates Industry integrated courses, and MoUs with National and International Corporate like Wipro, Infosys, TCS, L&T etc., address the specific needs of the present. The curricular component EEC with the courses will help the students to become employable at National and Global level. ICT tools in teaching, learning and assessment and NPTEL or SWAYAM courses are platforms for lifelong learning. Value Added Courses, NCC and NSS are a part of the curricula for enhancing learning.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.

**Response:** 82.35

#### 1.1.2.1 Number of all Programmes offered by the institution during the last five years.

Response: 17

#### 1.1.2.2 How many Programmes were revised out of total number of Programmes offered during the last five years

Response: 14

File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Details of program syllabus revision in last 5 years(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

**Response:** 67.13

**1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years..**

2020-21	2019-20	2018-19	2017-18	2016-17
265	235	223	209	201

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Average percentage of courses having focus on employability/ entrepreneurship(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.2 Academic Flexibility****1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.****Response:** 48.16

## 1.2.1.1 How many new courses are introduced within the last five years

Response: 811

## 1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.

Response: 1684

File Description	Document
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).****Response:** 93.33**1.2.2.1 Number of Programmes in which CBCS / Elective course system implemented.**

Response: 14

<b>File Description</b>	<b>Document</b>
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3 Curriculum Enrichment****1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum****Response:**

VCET believes in building a value-based inclusive education community. Many courses cover cross-cutting topics related to professional ethics, gender, human values, environment and sustainable development. Students are encouraged to undergo internships as part of their study projects. The curriculum help students continue to make a significant contribution to their development and the well-being of humanity. The college has made several efforts towards developing value based education to technical engineers with a vision to promote values to be a better citizen.

**Professional Ethics:**

Courses such as "Professional Ethics", "Total Quality Management", "Software Project Management", "Organizational Behavior", "Internet Security", etc., are included in the curriculum to study management and ethical practices in engineering. 'Total Quality Management' creates awareness about ISO and QS certification process and its need for the industries, and also to understand the statistical approach for quality control. 'Professional Ethics' infuse ethics in the workplace that has given new importance to human relations and values. Inner ability of students is strengthened through soft skills training. Placement Cell of the institute organized placement activities including training, development of students, aptitude test etc. on a usual basis as per the requirements of teh current industry.

**Human values:**

Courses including Universal Human Values, Value education for Youth Empowerment impart awareness

on physical health, strengthening life forces, wellness of mind, individual virtues, societal virtues, morals, human values and harmony in all aspects. Yoga classes enable our students to improve their physical fitness and self-confidence in achieving inner peace and mindfulness. Various clubs operating at different programs enable the students to understand the importance of group work and imbibing leadership. The course 'Indian Constitution and Traditional Knowledge' tells about the central and State policies, fundamental rights and their duties. Students will get awareness to make use of legal directions in developing solutions to societal issues. Beyond the syllabus, the institution organized programmes to inculcate human values in students and staff which includes periodic Blood Donation Camp, arrangement of social and cultural activities in the college and adopted village by NSS unit.

### Gender:

The institution practices gender equity in all its activities. The Women Empowerment Cell established in the college aims to help female faculty and students to discover their potential in all aspects, providing an affable working/studying environment for them.

Gender equity is being followed in recruitment of staff, admission of students, batch allocation in laboratories, academic project team, cultural activities, sports, association activities, NCC, NSS, club activities, etc. Office bearers of associations, class representatives and club coordination – all these responsibilities equally shared among boys and girls.

### Environment and sustainability:

Environment and sustainability courses prepare one to be an engineer able to assessing and addressing environmental effects of our use of herbal assets and man-made networks and systems. Course like 'Environmental Science and Engineering' covers topics including eco system, biodiversity, pollution, disaster management, environment protection acts, natural resources, population and human health. Awareness on reducing the use of hazardous materials, maximizing energy efficiency and ensuring recyclability of a redundant product are given to students.

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

**Response:** 161

#### 1.3.2.1 How many new value-added courses are added within the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
81	25	41	10	4

File Description	Document
List of value added courses (Data Template)	<a href="#">View Document</a>
Brochure or any other document relating to value added courses	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.

**Response:** 47.97

#### 1.3.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
4067	1489	1364	538	217

File Description	Document
List of students enrolled	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)

**Response:** 48.34

#### 1.3.4.1 Number of students undertaking field projects / internships / student projects

**Response:** 1545

File Description	Document
List of programs and number of students undertaking field projects / internships / student projects (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 1.4 Feedback System

<p><b>1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni</b></p> <p><b>Response:</b> A. All 4 of the above</p>	
File Description	Document
Any additional information	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as minuted by the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

<p><b>1.4.2 The feedback system of the Institution comprises of the following :</b></p> <p><b>Response:</b> A. Feedback collected, analysed and action taken and report made available on website</p>	
File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>



## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 77.82

##### 2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
800	770	761	942	816

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
975	1104	1104	1044	1044

File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 80.03

##### 2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
544	602	609	594	561

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

#### LEARNING LEVEL ASSESSMENT:

The college provides an induction program for first-year students to know about the college environment, facilities, academic and administrative regulations and procedures. At every academic year, an orientation program is conducted to refresh their knowledge of previous courses and match the current course prerequisites. The students of various academic profiles like vocational, state board, CBSE, ICS, various streams of study, join the institution who get oriented towards the engineering curriculum.

The institution periodically assesses the student performance through Continuous Assessment Tests, additional tests, assignments, quizzes, end-semester examination and constant mentoring of students by the faculty Mentors. Based on this, the advanced learners and the slow learners are identified.

#### PROGRAMS FOR ADVANCED LEARNERS

- VCET provides a Fastrack system for the advanced learners to complete their curriculum in advance and allow them for an industrial internship in their final semester.
- The students are encouraged to take up SWAYAM -NPTEL courses. The credits earned in these courses are transferred to the final grade statement.
- Special coaching to Graduate Aptitude Test in Engineering (GATE) is given to crack the GATE and other competitive examinations like Public Sector Unit (PSU) examinations.
- The technically strong students are trained and motivated to participate in All India Level Competitions like Smart India Hackathon, etc.
- The advanced students and MoU signed industries are collaborated every year to bring innovative projects and research work for their end semester.
- Students are encouraged to enroll themselves and get certified in spoken tutorial FOSSEE conducted by IIT Bombay.
- The advanced level learners are awarded as proficiency winners as per their skills and knowledge.
- Fast learners are motivated to attend various co-curricular and extracurricular activities in Inter and Intra College competitions.

#### PROGRAMS FOR SLOW LEARNERS

- The student mentoring system is in practice to resolve the difficulties of the slow learners faced both

academically and personally.

- The Remedial classes and Remedial Tests are scheduled and conducted periodically to improve the academic performance of the slow learners.
- Student Personality Development classes are conducted every week to qualify the students in placement level.
- The English refresher course is organized to enhance students' English proficiency.
- Special coaching classes are provided to students with backlogs and help them clear the previous year's backlogs.
- After completing every Continuous Assessment Test, Class Committee meeting is conducted to collect reviews and feedback from slow learners and necessary actions to improve their learning ability.
- Handwritten notes are being posted to the students in Google classroom to easy access to materials.
- Slow learners are provided with book materials, question bank with answers, previous year question papers and e-materials in Google Classroom.

The advanced learners' outcomes are measured by several events and co-curricular activities attended by the students, awards/prizes won by them. By conduction of remedial classes, the score graph of students is drastically improved in End semester examinations compared to Continuous Assessment Tests. The number of slow learners is decreased and hence improves the number of graduates. The outcomes are also satisfactorily seen in the placement of a student in a good company.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.2.2 Student - Full time teacher ratio (Data for the latest completed academic year)

**Response:** 13:1

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

### 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

**Response:**

Student-centric teaching-learning is aware of students and their needs. It focuses on the instruction, which is shifted from the teacher to the students with the end goal of developing autonomous and independent students by placing the responsibility of learning in the hands of the students. Velalar College of

Engineering and Technology has effectively applied student-centric learning to gain Outcome-Based Education (OBE) through experimental, participative, and problem-solving methodologies.

### **Experimental Learning**

- The course syllabus is framed with an inbuilt lab and the topics with modern software/simulation tools.
- Value Added Courses of one credit are organized to upgrade the knowledge of students in emerging technologies.
- Project work, mini-projects, laboratory activities, project exhibitions, symposiums, and conferences are conducted to help students to bring their ideas into a working prototype.
- Course-related workshops, seminars are organized for all the students to provide hands-on training in the respective fields.
- Fast track students are allowed to attend an internship program in their final semester to bridge the knowledge level of the students from academic to real-time industrial requirements.
- The students are motivated to attend a 30-day internship or inplant training to enhance their practical experience
- Industrial visits are organized regularly for the students in gaining knowledge on design, development, testing, and support in project management. The visited industries are Infosys, Radio Astronomy, All India radio, Kayes Technologies, Mettur Thermal Power plant, etc.

### **Participative Learning**

- Students are motivated to get enrolled in professional societies like CSI, IETE, and IEI etc. They participate in various technical programs like seminars, workshops, conferences, etc.
- The students are encouraged to participate in co-curricular and extracurricular activities conducted by intra college and inter-college events.
- The students utilize modern digital learning resources such as the National Digital Library of India and Spoken Tutorial to enhance their learning experience.
- The students are encouraged to learn Swayam-NPTEL courses and credits earned are transferred to them.
- The students are motivated to participate in all India-level technical events like the Smart India Hackathon as a team of students to showcase their innovative ideas.
- The institute organizes various club activities through Fine Arts club, Toastmaster Club, Go-green club, Rotaract, National Service Scheme (NSS), National Cadet Corps (NCC), Youth Red Cross (YRC), Women empowerment club, etc., to apply moral and ethical principles in the society.

### **Problem-solving methodologies**

- The problem-solving ability of the students is inherited by giving high order knowledge level assignments and activity-based learning.
- The problem-solving ideas are induced by innovative teaching practices like mind mapping, brainstorming, project-based learning, flipped classroom and case approach, peer instructions studies of real-time applications, etc
- Tutorial classes and supplementary tests are given to enhance the problem-solving ability and critical thinking of the students.

- The open-source software, simulation software and virtual laboratory are effectively employed to provide ideas for analyzing, interpreting data, and synthesizing information to provide a valid conclusion.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

#### Response:

The faculty members in the institution are using Information and Communication Technology (ICT) tools very effectively to enhance the teaching-learning process among the students by creating interest in live concepts.

#### Infrastructure

- Faculty members produce the curriculum plan and specify the delivery technique as part of the teaching-learning process before starting each semester. Theory courses are taught using PowerPoint Slides, while simulations and practical models are given utilising Videos and ICT tools for a more visual effect on students' understanding.
- Well-equipped smart classrooms and smartboard facilities help the faculty and students present PPTs and Videos effectively.
- Laboratories, classrooms, Seminar halls, Conference Rooms, Auditoriums, and Hostels are enabled with a Wi-Fi internet facility with a bandwidth of 500Mbps, which provides space for students to learn from e-resources update their skills.
- Every semester, the spoken tutorial is organised for the students and faculty members to enhance open-source ICT tools.
- Computer system laboratories with individual headsets and webcams help the faculty members to handle online classes and record quality audio and video to update as an e-learning resource in YouTube channels and E-learning centre of college servers.

#### E-resources

- Advanced Digital Library with personal computers and Online Public Access Catalogue system makes easy access for students and faculty members.
- The e-resources are used like DELNET, INFLIBNET, NLIST, NDLI, ShodhSindhu, ShodhGanga, etc.
- The institute has purchased e-journals, and students can access those resources in the digital library and get enough inputs for their project works.

#### Interaction platforms

- Study materials, assignments, activities, and assessments are conducted through classrooms, Google forms, Kahoot (online quiz, polls, and surveys). Online classes are conducted via Google meet and Zoomplatforms, which helped the multimodal teaching and learning process, including videos, audios, ppts, website reference, and real-time analysis.
- Online lectures are now delivered using digital platforms. Students are given links for them. They can use file transfers, chat, and raise their hands to postquestions.
- Virtual labs are online simulation-based labs for various disciplines of Science and Engineering under the initiative of the Ministry of Education. That is used remotely by the students and helps the facultyto check individual practical performance among multiple students.
- Faculties have theirseparateBlogspot, Google sites, and YouTube channel for their course, and students can access them via social media and interact with other learners outside the institution.
- Students can participate in open formal debates on subjects presented by faculty members in the daily classroom and get help such as clarifications and extra study resources through discussion boards. Students do have the option of submitting a video clip on the topic, which encourages creativity and diversity.
- Faculty members grade all activities using various ways, likea basic scale or rubric-based evaluation system with optional comments to ensure an efficient learning experience.

File Description	Document
Any additional information	<a href="#">View Document</a>
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 14:1

#### 2.3.3.1 Number of mentors

Response: 226

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### **2.3.4 Preparation and adherence of Academic Calendar and Teaching plans by the institution**

#### **Response:**

#### **PREPARATION OF ACADEMIC CALENDAR**

An Academic Calendar is prepared every semester prior to the commencement of classes by a committee comprising of the Principal and the COE and circulated to all the departments. The academic calendar is prepared considering the regulations of the corresponding program regarding the number of working days, the number of assessments to be conducted for both theory and laboratory courses. The calendar specifies the commencement date for each programme. Usually, the entire semester period is divided into three parts such that at the end of each part (approximately 30-40 days) assessment tests are conducted. The calendar specifies the periods for the three Continuous Assessment Tests, the last instructional day and the slot for conducting the end semester practical and theory examinations. The reopening date for the next semester is also mentioned.

Proposed dates for symposium, conferences, inauguration and valediction of club activities are also finalized and approved before the preparation of academic calendar so as to give sufficient time for constitution of different committees.

#### **PREPARATION OF TEACHING PLAN**

The teaching plans are prepared by the individual faculty before the starting of the classes and get approved by the HOD. It is ensured in the plan that the complete syllabus of a course is covered in that semester. During every academic year, in the beginning of each semester, lesson plan is prepared and written in the class logbook before the commencement of regular classes. A copy of the same is maintained in all the departments duly signed by HOD concerned.

#### **ADHERENCE TO ACADEMIC CALENDAR AND LESSON PLAN**

Throughout the semester, the HODs ensure that the faculty adheres to the academic calendar and teaching plan by reviewing the Attendance and Assessment Record of a course at the end of every month and finally at the end of the semester. Any deviation from the proposed lesson plan should be properly justified by the faculty concerned and the same should be approved by the Head of the Department. In the lesson plan, the following components like Course Name, Course Code, Unit No., Topic, Proposed Date & Hour and Actual Date & Hour, Teaching Methods and Aids are to be prepared well in advance. If necessary, remedial classes are conducted to ensure complete adherence to the teaching plan.

#### **EVALUATION PATTERN**

Question bank will be shared to the students before each semester and a model question paper will be posted on the college website to get familiarized on the question paper/Evaluation pattern and score more marks will help the students. HOD concerned will scrutinize the question paper before sharing it with the students.

The internal test will be conducted as Continuous Assessment Test (CAT) and after the paper evaluation, the

answer scripts will be shared to the students to get their signature. The components of the internal marks will be shared with the students along with marks scored by them to understand their own level and finally the marks will be sent to the Controller of Examination through HOD and the same will be shared to the parents as report card.

File Description	Document
Upload Academic Calendar and Teaching plans for five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

**Response:** 20.02

#### 2.4.2.1 Number of full time teachers with *Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit.* year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
59	54	44	42	37



File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

**Response:** 6.77

#### 2.4.3.1 Total experience of full-time teachers

Response: 1644

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

**Response:** 18.14

#### 2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
21.6	21.2	20.0	11.4	16.5

File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

**Response:** 5

#### 2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	223	272	272

File Description	Document
Number of complaints and total number of students appeared year wise	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.5.3 IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution

**Response:**

The examination process in the VCET autonomous system is automated and integrated with an Examination Management Software. It has a database comprising of all the relevant details regarding the syllabus of various programs, details of the students, namely, register number, student name, date of birth, photographs, etc. The schedule for semester examinations is drawn by the software based on various inputs such as the slot, the duration of the examinations, etc. Choice Based Credit System is introduced with the aim of offering flexibility in the choice of courses to the students. A regulation book which consists of all academic rules, regulations, course structures and syllabi is provided to the students, and also uploaded in the college website

#### EXAMINATION PROCEDURES AND PROCESSES

The software integrates various modules for generating examination hall allotment, seating pattern, invigilation duty, absentees list, and dummy number generation. After evaluation of the answer scripts, the examiners, key in the marks obtained in each script against that dummy number. The examination software properly transfers these marks to individual students' data fields. Performance in each course of study shall be evaluated based on (i) Continuous Assessments (CA) throughout the semester and (ii) Semester Examination (SE) at the end of the semester. All courses are evaluated for the specified maximum marks with the apportionment of marks for Continuous Assessment and Semester Examination as below:

**2018 - CA and SE marks**

Sl. No.	Category of Course	Maximum Marks	Apportionment	
			CA Marks	S
1	Theory Courses	100	40%	
2	Laboratory Courses	100	60%	
3	Mini Project	100	60%	
4	Project Work	100	60%	
5	Internship / Industrial Training/ Hospital Training/ Survey camp / Summer Training/ All other courses not listed explicitly.	100	100%	

**R2016 - CA and SE marks**

Sl. No.	Category of Course	Maximum Marks	Apportionment	
			CA Marks	S
1	Theory Courses	100	40%	
2	Laboratory Courses	100	50%	
3	Mini Project	100	100%	
4	Project Work	100	50%	
5	Internship/Industrial Training/ Hospital Training / Survey camp / Summer Training/ All other courses not listed explicitly.	100	100%	

Each theory examination is conducted for a total mark of 100, converted to a scale of 60. The Continuous assessment for each theory course carries 40 marks. The continuous assessment for theory courses consist of 3 written tests - each is conducted for duration of 1 hour 30 minutes, which carries 50 marks. The marks obtained out of these 50 marks are added and averaged for a scale of 30 marks. Three assignments are given, which are evaluated and averaged on a scale of 5. The course faculty decides an additional assessment: Quiz, an activity, etc., which is evaluated for 5 marks. All of them put together are summed for 40 marks.

The Exam Management Software also prepares the Grade Statements in a predetermined format. The information and details regarding the PASS or FAIL status are stored in the database for subsequent processing. For example, in subsequent semester examinations, the students who have arrears in previous exams are automatically brought forward and registered along with the current semester examinations. The provisions stipulated in the regulations are also built into the Examination Management System. For example, the criteria for getting a passing grade are:

- 1) A student has to obtain a minimum of 50% marks in semester examinations and

2) 50 % in total, considering Continuous Assessment and Semester Examinations put together.

The Continuous Assessment marks are considered only for the first three attempts. From the fourth attempt, only the mark obtained in semester examinations alone is considered, and the student has to obtain a minimum of 50% marks in the semester examination. In such case, the lowest grade, i.e., B is awarded irrespective of the marks obtained in that examination. In the Office of the Controller of Examinations, the necessary IT infrastructure facilities like Computer Servers, personal computers, printers in a networked fashion, along with high-speed digital copiers for printing the question papers are available.

### **End Semester Examination Grade Assessment Procedure**

The exam software adds end semester mark 60% and Continuous Assessment mark 40% and arrives at the total marks for 100 %. Based on the marks obtained, the following grade will be allotted for each course.

<b>Range of Percentage of Total Marks</b>	<b>Letter Grade</b>	<b>Grade Point</b>
<b>90 to 100</b>	O	10
<b>80 to 89</b>	A+	9
<b>70 to 79</b>	A	8
<b>60 to 69</b>	B+	7
<b>50 to 59</b>	B	6
<b>0 to 49 Or less than 50% in the SE</b>	RA	0
<b>Absent</b>	AB	-
<b>Withdrawal</b>	W	-
<b>Shortage of Attendance</b>	SA	-
<b>Audited Course</b>	AU	-
<b>Mandatory Course</b>	MC	-

Then the software prepares the overall result particulars examination wise, class-wise, student wise so that the Result Passing Board can approve it. After the approval the results, will be published in the college website in such a way that the students can view the results through online.

### **PROCESSES INTEGRATING IT:**

Installation and integration of IT infrastructure have brought in considerable improvements in the following areas:

- Scheduling the examinations
- Conduct of examinations
- Evaluation of answer scripts

- Software is used for Continuous Assessment mark calculation, Result passing, Analysis and Declaration of the result
- Printing and the issue of GradeStatements to the students
- Photo copier machine and Colour Printer interfaced with computers
- Transcript system is implemented for the passed out students
- Incorporation of Bloom's taxonomy in question paper setting, etc.

Integrating IT infrastructure has also helped to improve the Examination Management Software for collecting feedback from the Continuous Internal Assessment process. It is ensured that the question papers for the continuous internal assessment tests are framed with bloom's taxonomy.

Website link:

Regulations:[https://velalarengg.ac.in/academic\\_regulation.php](https://velalarengg.ac.in/academic_regulation.php)

Office of the COE: <https://velalarengg.ac.in/coe.php>

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

### Response:

Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels.

In compliance with the objectives of Outcome-Based Education (OBE), the Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are framed by the department offering the program in consultation with faculty members and the stakeholders.

### PROGRAM-SPECIFIC OUTCOMES (PSOs)

Program-specific Outcomes (PSOs) are the specific skill requirements and accomplishments to be fulfilled by the students at the micro-level at the end of the program. The programme coordinators prepare the PSOs in consultation with course coordinators and carefully framed considering the current scenario and trends mentioned by the professional bodies.

### PROGRAM OUTCOMES (POs)

Program Outcomes (POs) are broad statements to describe the professional accomplishments of the program, and these are to be attained by the students at the time of their program completion. POs incorporate many areas of inter-related knowledge and skills that are to be acquired by the students during their graduation.

### **COURSE OUTCOMES (COs)**

Course outcomes (COs) are direct statements describing the essential disciplinary knowledge and abilities that students should possess during the completion of a course. The course coordinator prepares the course outcomes in consultation with faculty members teaching the same course.

Each subject has Course outcomes (COs). These COs can be mapped with POs & PSOs based on Intended Learning Outcomes and Performance Indicators given by AICTE Examination Reforms.

Each COs can be assessed using Direct assessment tools that reflect the knowledge level and skills of the students based on their performance in Continuous Assessment Test, Assignments, Tutorials, Concept Test, Rubrics etc. This Direct assessment is taken to attain individual Course Outcomes (COs).

### **CO-PO MAPPING:**

- The process starts with framing a well defined Course Outcomes for a course.
- Course Outcomes are derived by framing Intended Learning Outcomes (ILOs) for each unit.
- Each ILO is mapped to a relevant Performance Indicator (PI) and Competency Level (CL) derived for each Program Outcome.
- With all the Indicators mapped to each Unit/ Module, Articulation matrix is derived.

The program outcomes are communicated to the students, faculty members, alumni, parents and employers by Publishing and Disseminating at,

- College Website
- Curriculum Book
- HOD Cabin
- Department Notice Boards
- Class Rooms
- Faculty Rooms
- Laboratories
- Department Library
- Laboratory Manuals
- Brochures
- News Letters and Magazines
- Department Prospectus and Placement brochures

The Course Outcomes are communicated to all the students by the corresponding course handling faculty members and it is published and disseminated at,

- Curriculum Book
- College Website
- Laboratory Manuals

File Description	Document
Upload COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

#### Response:

Finalized CO-PO articulation matrix is taken and attainment level (Target) is fixed for each course.

- Depending on the learning level of students, target will be fixed by the concern faculty handling the course by following any one of the above said options for fixing the target.
- Each CO is assessed with the tools chosen by the course coordinators.
- Each tool will represent the scores secured by the individual student and the attainment level for each CO is calculated by measuring the percentage of students scored equal or more than the Target fixed for that course.

Final attainment of each CO is measured by taking 40% of Continuous Assessment and 60% of Semester end examinations.

Normalization percentage will be considered for measuring final attainment of each COs of a course. For theory courses 40% of CA and 60% of SE will be calculated. For Laboratory courses 60% of CA and 40% of SE will be calculated.

CO attainment for the course will be calculated by taking the average of all CO's final attainment value. If final attainment of course outcomes is equal to the target, then all the course outcomes are attained else not attained.

If a course failed to attain the set attainment target, then action to be taken for continuous improvement will be suggested by the course handling faculty.

#### PO & PSO ASSESSMENT AND ATTAINMENT:

PO assessment tools are categorized into Direct method and Indirect method. The final PO attainment is calculated by taking 80% of the attainment values from Direct assessment method and 20% of the attainment values from Indirect assessment method.

#### DIRECT METHOD

Once overall attainment percentage of each COs is calculated, the PO and PSO attainment is calculated by taking cumulative average of all course's CO attainment which contributes to specific Program Outcomes and Program Specific Outcomes.

**Overall attainment of COs (Theory) = 0.4\*CA attainment + 0.6\*SE attainment**

**Overall attainment of COs(Practical & Project) = 0.6\*CA attainment + 0.4\*SE attainment**

## INDIRECT METHOD

Survey reports gathers information about student learning by looking at indicators of learning other than student work output. This assessment approach is intended to find out about the quality of the learning process by getting feedback from the student, employers, and exit surveys of graduates.

## PO ASSESSMENT & ATTAINMENT PROCESS

- Once CO-PO mapping of all the courses are completed, the cumulative average of mapping to all the PO and PSOs are analyzed and Set attainment target will be fixed for each PO and PSO as 3.
- Through Direct Assessment tools, achievement of each PO and PSO will be calculated by taking the cumulative average of all the courses which contributes to each PO and PSO.
- Through Indirect Assessment tools, achievement of each PO and PSO will be calculated by focusing the questionnaire in the survey forms and student portfolio which contributes to each PO and PSO.
- The final PO attainment is calculated by taking 80% of PO and PSO achievement from Direct method and 20% of PO and PSO achievement form Indirect method.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.6.3 Pass Percentage of students(Data for the latest completed academic year)

**Response:** 97.68

#### 2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 927

#### 2.6.3.2 Total number of final year students who appeared for the examination conducted by the Institution.

Response: 949



<b>File Description</b>	<b>Document</b>
Upload List of Programmes and number of students passed and appeared in the final year examination(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for the annual report	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

<b>2.7.1 Online student satisfaction survey regarding teaching learning process</b>	
<b>Response: 3.76</b>	
<b>File Description</b>	<b>Document</b>
Upload database of all currently enrolled students	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Promotion of Research and Facilities

#### 3.1.1 The institution's Research facilities are frequently updated and there is a well defined policy for promotion of research which is uploaded on the institutional website and implemented

##### Response:

As a reputed engineering institution, the institution has framed a robust research policy to promote research interest and innovations in the emerging areas of science, engineering and technology. It endeavors to create and support a research culture for enriching the professional competence of the faculty and the research scholars which in turn leads to the realization of the Vision and Mission of the College. Students and faculties are motivated to undertake interdisciplinary research to promote experiential learning thereby build using a strong academic foundation.

The quest for knowledge is the basic principle behind research. The quality of research work directly translates to the quality of teaching and learning in the classroom, thereby benefiting the students, the society and the country. The research activities nourish the academic program by enriching the knowledge of faculties in their field of expertise. This in turn helps the institution to stand at the global level. The forte of the research initiatives is conforming to established norms and standards for safe and ethical conduct of research. The well-defined Research Policy has been approved and uploaded on the College website.

##### R & D Cell:

R & D Cell keeps a constant check on the call for the project proposals and encourages faculty members to submit proposals for government funding agencies. Research proposal shall pass through multi tier review, where the proposal is reviewed by research and development committee and research ethical committee. This may be followed by review of eminent experts from the advisory board of the R&D council. The proposal is then vetted by the R&D committee before submission to the funding agency. R & D Cell assists the scholars to file patent application and copyright protection.

##### Research Laboratories:

The institution has 3 Research Centres offering Ph.D programmes in different disciplines. The institute is equipped with well established laboratories to empower the faculties for research and development. There are three research centres offering doctoral programmes in different disciplines. Laboratories are regularly upgraded to facilitate the research. Licensed software in the laboratory helps to promote the research to the next level. The Institution has inked MoUs with the industries such as Infosys, Pantech solutions, Agni steels, maxCADD, etc and hospitals such as Dr.Agarwal's Eye Hospital, Sudha Hospitals, Ramana Maharishi Rangammal Hospital, etc to promote multidisciplinary research culture.

##### Library:

The institution maintains highly-stacked Library for research reference. The Central Library keeps increasing the book stacks. The Central Library has 157 national journals, 81 international journals, 25 national magazines 165 and 208 e-journals. The institution has access to subscribed e-resources like e-books, e-ShodhSindhu, Shodhganga, NPTEL, National Digital Library and e-books. Web- based research

information facilitates faculty of the institution in breakthrough of research.

The institution has conducted various webinars, workshops and FDPs to promote research in the areas of Patent, Improving research visibility, etc. The institution has a total of 21 research guides with 70 doctorates and 24 scholars pursuing doctoral degree during the period of 2016-2021.

File Description	Document
Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL of Policy document on promotion of research uploaded on website	<a href="#">View Document</a>

### 3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

**Response:** 0.5

#### 3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2020-21	2019-20	2018-19	2017-18	2016-17
0.5	0.5	0.5	0.5	0.5

File Description	Document
Minutes of the relevant bodies of the Institution	<a href="#">View Document</a>
List of teachers receiving grant and details of grant received	<a href="#">View Document</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

**Response:** 1.01

**3.1.3.1 The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1	4	0	4	3

File Description	Document
List of teachers and their international fellowship details	<a href="#">View Document</a>
e-copies of the award letters of the teachers	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.2 Resource Mobilization for Research****3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 36.09

**3.2.1.1 Total Grants from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
11.60441	5.33	4.12009	14.64	0.4

File Description	Document
List of project and grant details	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by government and non-government	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.2.2 Percentage of teachers having research projects during the last five years**

**Response:** 1.52

**3.2.2.1 Number of teachers having research projects during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	6	5	4

File Description	Document
Names of teachers having research projects	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 3.2.3 Percentage of teachers recognised as research guides

**Response:** 9.47

#### 3.2.3.1 Number of teachers recognized as research guides

Response: 23

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

**Response:** 36

#### 3.2.4.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	6	5	4

#### 3.2.4.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
10	10	10	10	10

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste link to funding agency website	<a href="#">View Document</a>

### 3.3 Innovation Ecosystem

**3.3.1 Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.**

**Response:**

**Entrepreneurship Development Cell** - The College has a full-fledged Entrepreneurship Development Cell which addresses all the needs of students to become dynamic entrepreneurs. The Entrepreneurship Development Cell (EDC) of the College conducts various awareness programmes such as seminars, workshops, industrial visits, Food Fest and interaction with young entrepreneurs etc. The college has received grants from Entrepreneurship Development Institute of India, Ahmedabad for organizing three day Entrepreneurship Awareness Camps. The institution has organized many awareness camps, seminars, workshops and guest lectures on Entrepreneurship development. Eminent industrialists and budding entrepreneurs are often invited to motivate the young students. These programmes are aimed at making the student community more enthusiastic towards entrepreneurial activity. Also, the college has signed MoU with Erode District Small Industries Association (EEDISSIA) for developing the entrepreneurial knowledge and skill of the students. The executive members of EEDISSIA are supporting the students' members of EDC. The successful alumni of VCET pursuing the entrepreneurial route also encourage our students through frequent interactions.

**Recognized research centers** - VCET has recognized research centers of Anna University in the departments of Electronics and Communication Engineering, Electrical and Electronics Engineering, and Physics. The faculty members are encouraged and supported to guide research scholars to their creative ideas. A good number of research scholars have registered for PhD programs and the numbers are increasing every year.

**Encouraging students to participate in Club Activities** - The students of VCET are encouraged to organize and actively participate in the programmes such as project Expo, Symposium and Hackathon, In Project Expo, the innovative project models are designed and displayed by the students. In Symposiums various events like paper presentation, quiz competitions, and technical oriented competitions are conducted and prizes are distributed to the winners of the events. The Green Club of VCET is functioning

effectively in the campus. The institution has formed various committees to impact the environmental education to the students through extension activities carried out by Rotaract Club, National Service Scheme (NSS), and Youth Red Cross (YRC).

**Institution's Innovation Council** - Institution's Innovation Council (IIC) of VCET was established to systematically foster the culture of Innovation among the students across various departments inside the Institute. The IIC is set up to encourage, inspire and nurture young students by supporting them to work on our new ideas and innovation, transform them into prototypes and promote them to create start-ups and entrepreneurial ventures. The IIC at VCET focus on creating a complete ecosystem to foster the culture of Innovation across the VCET from ideas generation as successful start-ups. The IIC will also work on evaluation systems to identify and develop students to transform them self from dependent to startups. The college has MoU with Caliber for developing incubation centers in the college. The students of Civil Engineering are motivated to develop eco friendly projects to save the environment. The department of Chemistry is involved in identifying pH value for the tap water consumed in the college.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.

**Response:** 177

#### 3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
51	41	32	30	23

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.4 Research Publications and Awards

**3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of**

**Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee****Response:** A. All of the above

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/ supervisors provided at 3.2.3 metric) during the last five years****Response:** 1.22

3.4.2.1 How many Ph.Ds are registered within last 5 years

Response: 28

3.4.2.2 Number of teachers recognized as guides during the last five years

Response: 23

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
URL to the research page on HEI web site	<a href="#">View Document</a>

**3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years****Response:** 0.11

3.4.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
15	02	03	03	03

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>



**3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years****Response:** 0.28**3.4.4.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
14	15	13	12	12

File Description	Document
List books and chapters in edited volumes / books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.5 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed****Response:** 3.87

File Description	Document
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution****Response:** 11.5

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.5 Consultancy****3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).**

**Response:** 10.84

**3.5.1.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
2.4	0.16	2.0075	2.6255	3.645

File Description	Document
List of consultants and revenue generated by them	<a href="#">View Document</a>
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.5.2 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).**

**Response:** 0.63

**3.5.2.1 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0.3	0.3	0.03186	0

File Description	Document
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View Document</a>
List of facilities and staff available for undertaking consultancy	<a href="#">View Document</a>
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.6 Extension Activities

#### 3.6.1 Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years

##### Response:

Velalar College of Engineering and Technology gives a lot of importance to holistic development and societal needs by motivating students and conducting many activities focusing on social issues during last five years. Extension programmes like NCC, NSS, Youth Red Cross, Red Ribbon club, Rotaract club and Green Club have been made an integral part of the curriculum to encourage students to participate in community building processes. Social outreach programmes like camps, rallies and awareness/training programmes are organized to sensitize various sections of the society on Institutional Social Responsibility.

##### National Service Scheme(NSS):

The NSS has carried out various activities for the students amid the unforeseen pandemic situations. Camps for Sapling Plantation, and Awareness programs like Mask Awareness, Cleaning Awareness, Vaccination Awareness, field works for Grocery distribution were conducted. NSS volunteers have organized an Yoga Programme to inculcate the importance of Yoga to maintain healthy life among the school students and have themselves involved in the “Pulse Polio Awareness Programme” on 10.3.2019 and assisted the nurses in the camp.

##### Unnat Bharat Abhiyan Scheme (UBA):

Under UBA, Velalar College of Engineering and Technology has adopted five villages namely Mullampatti, Seenapuram, Perode, Mettunasuvampalayam and Ingur. Our college has been granted a sum of **Rs. 50,000** for this Programme. In 2018-19, UBA team members of our college visited the adopted villages and conducted Cleaning Awareness program, planted 200 saplings, initiated the use of cloth bags.

##### National Cadet Corps (NCC):

The NCC club arranges camps for Blood Donation, Dental and Eye checkup .Every year various activities were conducted to promote Swatch Bharat mission. Yoga day, International day against Drug abuse, Population day, Pollution free day, Heart day, Traffic awareness rally are observed every year. Sixteen cadets appeared in C-certificate examination in the year 2019-20.

##### Rotaract club:

The Rotaract club brings together the people through services like donating personal protective equipments like masks, sanitizers and hand gloves to social workers during COVID pandemic. Programs for Planting saplings, providing food ,grocery items to old age homes and needy were also organized. Camps and Awareness programs like Pulse Polio Immunization camp, Blood Donation camp, Clean India project, Dengue Awareness cycle rally, AIDS Awareness program, Cancer Awareness program were organized. Kamarajar Day, Independence Day, Teachers Day were celebrated inside the campus. Panchayat school students were benefited by Computer education program. Job fair for physically challenged people was

organized. Rotaract club of VCET has received 40 awards from 2016 to 2019."Yaathumaagi Best participation Award" has been received for the participation in all the events in the year 2020-21 by the Rotaract club.

#### **Youth Red Cross (YRC), Red Ribbon Club (RRC) & Green Club:**

YRC and RRC of VCET had organized rallies for World Population day. Yoga and Meditation class, Corona Virus Awareness programme and Camps for Blood donation, Dental and Eye checkup were also conducted. Various activities were conducted by Green Club of VCET to nurture and teach the importance of environment to students.

File Description	Document
Upload Any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### **3.6.2 Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during last five years**

**Response: 78**

#### **3.6.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
1	19	21	19	18

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### **3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

**Response: 263**

#### **3.6.3.1 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
55	58	49	68	33

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

**Response:** 40.78

#### 3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
1202	1419	1496	1358	979

File Description	Document
Reports of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.7 Collaboration

### 3.7.1 Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

**Response:** 160.2

#### 3.7.1.1 Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

2020-21	2019-20	2018-19	2017-18	2016-17
141	149	205	167	139

File Description	Document
Number of Collaborative activities for research, faculty etc	<a href="#">View Document</a>
Copies of collaboration	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.7.2 Number of functional MoUs with institutions of national, international importance, other institutions, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response:** 39

**3.7.2.1 Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
14	9	11	3	2

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other Institutions etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**

**Response:**

#### **Classrooms, Drawing Halls and Seminar Halls**

The institution has totally 66 classrooms with LCD projectors connected with Wi-Fi. Each classroom has spacious seating capacity based on sanctioned intake. Four Drawing Halls are available based on the requirements of the curriculum. Institution has two Seminar halls and three Conference halls for conducting Department/ Institute level programs such as association activities and programs related to the professional bodies of the department.

Institution also follows University norms with respect to laboratory curriculum viz., experiments, detail of equipment and other infrastructure requirements including department offices, exam cell, strong room. The above provisions have been continuously inspected by Anna University before granting affiliation. There are totally 49 laboratories in the campus. The college provides a library which occupies the prime place in the heart of the college to accommodate more than hundred students. Central Library is equipped with adequate number of titles and volumes of text and reference books and is available for students and faculty members. Each department also has its own Department Library for the benefit of students and faculty members.

#### **Computing facilities**

Each Department has well-equipped laboratories over and above the mandatory requirements AICTE. Totally 1171 computer systems are connected to internet through a leased line with dedicated high-speed internet connectivity (bandwidth) of 500 Mbps. In order to support ICT based teaching-learning process, each building including hostels has Wi-Fi facility. Adequate number of scanners and photocopy machines are available. Wi-Fi enabled library facilitates the student and staff to access E-resources and journals.

#### **E-Resources**

Study materials and online video lectures for each subject are posted in the Google Classroom which would help the students in their learning. Such materials can be viewed by the students during their study time. Online tutorials, quizzes and assignments are also being conducted using Google Classroom.

#### **Central Library**

The Central library was established in the year 2001. In 2008 when the library was shifted to its main building. It is housed in a four storeyed building located at the eastern side in the main building. The library spreads over an area of 1197.86 Sq.m.

It is well equipped with reference books, textbooks, journals, magazines and newspapers etc. All the books are bar-coded and bar-code laser scanners are used at the circulation counter for book transactions.

CCTV surveillance system with 17 cameras is functioning in the library.

All Books are classified according to D.D.C Scheme. Seating capacity of the library is 300. It Provides Online Public Access Catalogue (OPAC) service to its users in addition to the other usual services. The library aims to stock all the books and periodicals that the students and staff members are expected to read and enrich their knowledge

### Digital Library

It has 32 terminals with head phones and mikes are available in the Digital Library section with Internet access facility to facilitate access to the DELNET, NPTEL, e-books and IEEE ASPP online resources. It is a main source of knowledge, which is an integral and important part of our institute for higher learning.

File Description	Document
Upload Any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.2 The institution has adequate facilities for cultural activities, yoga, games and sports (indoor & outdoor); (gymnasium, yoga centre, auditorium, etc.,)

##### Response:

##### Cultural Activities

Our institution is committed to the holistic development of students with the support of Fine Arts Club activities to keep the creative spark alive. Creativity is an essential component of Engineering and our club nurtures the same.

To exhibit students' unique talents, Fine Arts Club, Viscom Club is available in the Institution. Women's Day, Engineer's Day, Teacher's Day, Annual Day and Pongal are celebrated with many cultural programs.

##### Yoga and Meditation Hall

In L Block the Institution has a separate Yoga Centre with an area of 230.97 Sq.m. Every year as a part of the curriculum Value Education Classes (Yoga classes) were conducted for the first year students (common to all branches) for about 18 hours.

Meditation and yoga can contribute directly to improve mental focus and concentration among students. It involves long, deep, slow breathing as well as the coordination of mental concentration. Various programs on topics related to stress relief, mind relaxation, memory power enhancement, meditation, decision-making techniques and personal hygiene are conducted

Every week 3 hours were scheduled for the yoga class. Trainers from Erode Manavalakalaimandram Trust



train the students. Every year the first year students are trained in the First or Second semester. After the completion of the course, the students were assessed by a written exam and all the students were provided with the certification from the Manavalakkalaimandram. The Institution celebrates International Yoga Day which helps to enhance awareness among students.

## **SPORTS AND GAMES FACILITIES**

The Department of Physical Education facilitates the students with required sports items for their practice and motivates them to participate in both the indoor and outdoor games and sports in the National level and in Zone Level. Matches, Games and Sports are given adequate weightage.

The sports activities are encouraged by providing all the necessary facilities. The students are given enough practice to participate in Inter-University, Intra-University and other tournaments. The college teams have won many Prizes, Medals, Shields and Cups in the Intercollegiate level and outside Anna University.

### **Indoor Facilities**

The Department of Physical Education facilitates the following Games as indoor games for the benefit of students, such as Table tennis, Chess and Carrom. College has a good collection of sports materials for effective utilization by students during holidays too.

### **Outdoor Facilities**

The total area of the playground is 3.75 acres which includes athletic fields and track, Basket Ball, Cricket, Football, Volley ball, Badminton, Ball Badminton, Kabaddi, Kho-Kho. For each game, playground areas are clearly earmarked.

### **Gym**

Gym is another central facility which is functioning in the college premise. The college gym is fully equipped with essential fitness equipments.

### **Other Facilities**

The built up area of the institution is 56572 sq.m with a sprawling over 25.61 acres of land. The college has 1 Gents Hostel, 1 Ladies Hostels, 2 Food Courts, Students' Amenity Centre. In order to provide medical facilities for students and staff, Vellalar Trust hospital with 1 ambulance is used for emergency purpose and is available round the clock services (24/7) in college campus itself.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Geotagged pictures	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)****Response:** 100**4.1.3.1 Number of classrooms and seminar halls with ICT facilities**

Response: 71

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)****Response:** 56.45**4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
22.10	113.42	159.74	180.44	654.48

File Description	Document
Upload Details of Expenditure , excluding salary during the last five years	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

**4.2 Library as a Learning Resource****4.2.1 Library is automated using Integrated Library Management System (ILMS)****Response:****Library is automated using Integrated Library Management System (ILMS)**

The Central library was established in the year 2001 and in 2008 the library was shifted to the main building. It is housed in a four storeyed building located at the eastern side in the main building. The library spreads over an area of 1197.86 Sq.m. The Library of our college stands as an epitome of intellectual elegance and source of technical education, in particular to Engineering and Technology. The Library is well equipped with unique features and world - class infrastructure to support and encourage scholarly communication and professional development. With the state-of-the-art technology, the users can access the print, digital and visual resources online throughout the campus. The central library is fully computerized, well equipped with modern facilities, resources in the form of books, printed and electronic journals, CD-ROMs, on-line databases, project reports, etc. Open Access System is being followed to access the books and journals.

Name of the ILMS software: **Noolagam – The Smart Librarian**

Nature of Automation: Full

Version: 2.1.09

Year of automation: 2001

Currently, it has been changed to **CAMPES iLIB**(Computerized Academic Management Processing and Expert System Information Library) Integrated Library Management System (from 2003).

Name of the ILMS software: **CAMPES iLIB**

Nature of Automation: Full

Version: 7.0.2

#### **FEATURES OF SOFTWARE:**

1. Member Management (Students and Staff)
2. Circulation
3. Book Stock master
4. Non-Book Materials entries
5. Back Volume Entries
6. Periodical/Magazine and Journals maintenance
7. Subscription entries
8. Failed Magazine Observation
9. Reservation Management
10. Overdue Charge management
11. Reports production
12. Image clipping management
13. User rights management to apply security in library activity by librarian
14. Stock Verification Process
15. Failed Hits Observation from OPAC in book purchase
16. Book purchase bill Management
17. Final Year Due Clearance
18. Data designed as data ware house manner. i.e no data are deleted. Complete Library Activity are

stored as History.

## LIBRARY SERVICES AND FACILITIES

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.

1. Fully computerized bar-coded circulation services (Issue, Return and Renewal of books)
2. Online Public Access Catalogue (OPAC) at the library for search of books and other academic materials of the library such as CDs etc.,
3. On-site use to Textbooks, Reference books Back volumes and Print / Online journals inside the library
4. Reference services (Encyclopaedia, Dictionary, Yearbooks, Handbooks and Previous year question papers)
5. Online full text access to International journals
6. Reprography (Xerox, scanning, print-out)
7. CD & DVD Access & Writing
8. Open Access System
9. Bar-coded User Entry System
10. Inter library loan service
11. CCTV surveillance system with 17 cameras
12. 32 terminals with Head phones and Mikes are available in the Digital Library section with high speed Internet access facility to access the DELNET, NPTEL, E-books and IEEE ASPP online resources
13. Display of information regarding new arrivals
14. Internet with Wi- Fi

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste Link for additional information	<a href="#">View Document</a>

### 4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources

**Response:** A. Any 4 or more of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-books , e-ShodhSindhu, Shodhganga Membership etc	<a href="#">View Document</a>

**4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)****Response:** 27.78**4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
16.22	28.15	33.01	34.66	26.85

File Description	Document
Details of annual expenditure for purchase of and subscription to journals/e-journals during the last five years	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year****Response:** 16.69**4.2.4.1 Number of teachers and students using library per day over last one year**

Response: 574

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**4.3 IT Infrastructure****4.3.1 Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities****Response:****IT Management**

- To maintain, secure and ensure legal and appropriate use of IT infrastructure on the campus.
- To establish the responsibilities of all IT users for protecting integrity and confidentiality of the managed and controlled information assets.
- To monitor infrastructural assets like computers, servers, laptops, LCDs, and projectors and information assets like data, network devices and documents.

### **No. of Systems and their Configuration**

Institution has a total of 1171 computers with the following configuration: i3 / i5 Processor , 4GB / 8GB RAM, 500 GB / 1 TB HardDisk, 3.41 GHz Processor clock speed and above CPU Speed.

### **Internet Connection**

Internet connection is distributed across the college through Wi-Fi networks. The institute regularly upgrades the internet connection every year. The campus is enabled with 24x7 Wi-Fi, 500 Mbps bandwidth connectivity. Upgrade of network infrastructure from 100 Mbps to 1000 Mbps. 61 Wi-Fi access points have been installed in the campus to improve the Internet access. The coverage of Wi-Fi is extended to all areas including classrooms, library, conference halls, cafeteria and hostels. The Wi-Fi system has been functioning with 500 Mbps (1:1) leased line connectivity provided by Wireline Solution Private Limited.

### **Networking Peripherals**

VCET uses fibre optical networking cable with a speed of 100 / 1000 MBPS media converters and layer 2 switches like CISCO SG 500 / 350 / 300.

### **LCD Projectors**

Upgrading of IT is seen in teaching learning process as OHPs in the institute have been intermittently replaced by LCD projector with smart boards in all class rooms. Laboratories are equipped with wall mounted LCD projectors and screens for the implementation of smart and innovative learning methodologies.

### **IT Usage Policy**

- To ensure that institution's proprietary information stored on electronic and computing devices remains its sole property. It should be ensured that proprietary information is protected in accordance with Data protection Standard.
- Every user on the premises has a responsibility to promptly report the theft, loss or unauthorized disclosure of institution's proprietary information.
- Members of Velalar College of Engineering and Technology may access proprietary information only to the extent it is authorized and necessary to fulfill assigned job duties.
- Authorized individuals may monitor systems and network traffic at any time.
- Lower end configurations and obsolete systems are periodically replaced with high configuration systems.

### **IT Security Policy**

- Installation of Anti-malware software, Firewalls and access authentication systems.
- Effective security is a team effort involving the participation and support of every IT user.

### Firewall/Security

VCET uses firewall service from MIKROTIK CLOUD CONTROL ROUTER and have lifetime validity.

### Surveillance Facilities

There is a 24/7 CCTV security surveillance available in the Institution. Through this security system, the faculty members and students have been secured from unwanted grievances.

All the faculty members, students, technical staff and other workers of our institution are responsible for exercising appropriate use of information and network resources in accordance with the policies and standards.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 4.3.2 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 3:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student - computer ratio	<a href="#">View Document</a>

### 4.3.3 Bandwidth of internet connection in the Institution.

**Response:** 750 MBPS

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

### 4.3.4 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre

**3.Lecture Capturing System(LCS)****4.Mixing equipments and softwares for editing****Response:** A. All of the above

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure****4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years****Response:** 22.3**4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
66.32	96.47	82.84	112.98	75.81

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

**4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.****Response:****Library Maintenance**

- Each book is assigned an accession number, which is kept in the Book Stock Register.
- Staff and students visit the library to use the books; the visitor's information is kept on file in the E-



Gate register on a daily basis.

- A book transactions register is kept in the library for the issue and return of books.
- A gate entry register is kept for the Digital Library.
- Once a year, the newspapers are disposed of based on the date of purchase.
- A fire extinguisher is kept in the library in case of a fire.
- A feedback from staff and students are received periodically in order to improve the Library.
- Old books, journals, and periodicals are bound to avoid damage.
- Physical stock verification is performed in the Library once a year.
- Every day, the working conditions of all computer systems and printers are examined.
- Every day, the library floors and book stack area are cleaned.
- Every week, all electrical components are inspected.

### **Laboratory Maintenance Procedure (Computer Lab)**

- Under the supervision of the HoD, the technician in charge does regular maintenance work as per the maintenance schedule, which is then reordered in the maintenance register.
- The IP peripherals of the system are maintained and serviced in accordance with the contained method.
- Stock register is kept separately for consumables and non-consumables. Consumable register is known by the Department abbreviated name followed by the type of register (Consumable/non-consumable), then by the count in the department. (Eg. EC-NC-3)
- Non-consumables are serviced every year by the Lab Technician. If the technician is unable to repair the defect, the supplier/manufacturer will be notified of the nature of the problem and asked to attend the service. In response, the supplier/manufacturer may visit the campus and service the same, for which a service charge will be charged.
- At the end of the semester, the maintenance work is cross-checked by the faculty in-charge and the HoD.
- Every year, inter department stock verification is done.
- UPS maintenance is also done periodically and based on the need, it is processed immediately.

### **Classroom Maintenance Procedure**

- The classrooms are well-furnished, and the desks and benches are well organised.
- For electrical faults in fan/tube lights, the student representative will notify the Class advisor. The class advisor will notify the concerned section (Work Section/Electrical Maintenance Section) via the Head of the Department.
- The projector in the classrooms are ensured to be turned off when the students leave the classroom every day, and the lights and fans in the classroom are turned off by the students themselves when they leave the classroom every day.

### **Maintenance of Audio Visual Equipments**

- The LCD projectors are tested for proper operation and brightness. Its air filters are cleansed in response to notifications from the projectors.
- If the LCD projector cannot be maintained by the in-charge technician (for example, bulb replacement and comprehensive cleaning if the illumination is dull), service workers from outside are recruited based on payment.
- The speaker line and speakers are verified for correct terminal connections and earth connections.

## **TRANSPORT SECTION**

### **College vehicle maintenance schedule:**

The Transport Department, which is part of the Vellalar Educational Trust, is in charge of the buses and services (VET)

- Grease is applied to all joints and spring bushes once a week.
- The oil level in the engine is checked and maintained on a daily basis.
- The distilled water level in the battery is appropriately cleansed and maintained.
- Every week, the joint bolts and wheel bolts are checked and tightened.
- The radiator coolant is tested and refilled on a daily basis.
- Water servicing is performed in the service station every three months.

### **Buses:**

- The engine oil and filters are changed every 10,000 kilometres.
- Every 10,000 kilometres, the tyres will be rotated.
- Insurance, road tax, and fitness certificate are all renewed.
- Medicines in First-Aid kits are replenished when they expire.
- The fire extinguishers are replaced once a year.
- The vehicle's permit is renewed every five years.
- Vehicle insurance is renewed once a year.

### **During FC Work:**

- The steering linkages and power steering oil have been replaced.
- The radiator has been cleaned.
- The damaged seat covers and window shutters have been replaced.
- The clutch assembly has been inspected and repaired.
- Worn-out wheel bearings are inspected and replaced.
- The emission certificate is renewed every six months.
- The speed controller is calibrated once a year.
- The gearbox and crown oil are checked and refilled on a regular basis.

### **Maintenance of CCTV surveillance camera**

- In addition, technician in-charges will provide maintenance service in response to requests from various departments via web portal and e-mail.
- The major equipment, such as NVRs and cameras, will be maintained and monitored on a daily basis by a campus-wide centralised NVR monitoring facility.
- If the technician is unable to repair the defect, the supplier/manufacturer will be notified of the nature of the problem and asked to come to the institution for service. If the supplier requires that the equipment to be repaired in the approved service centre, the malfunctioning equipment will be forwarded to the repair centre via them.

### **Maintenance of Networking & Intranet**

- Every day, system administrators will do regular maintenance using the Mikrotik access point monitoring capability; additionally, CISCO switches are maintained by technical in-charges in response to requests from various departments through web interface.
- In the event of a switch fault, the supplier/manufacturer will be notified of the nature of the fault and the switch will be delivered to them for service or repair.
- If the supplier requests that the faulty equipment be sent to the authorised service centre, the faulty equipment will be sent to the service centre.
- Network administrators and lab technicians adopted and maintained Intranet addresses.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

MAAC

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 54.71

##### 5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
1798	1704	1668	1923	1539

File Description	Document
upload self attested letter with the list of students sanctioned scholarships	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	<a href="#">View Document</a>

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

Response: 26.42

##### 5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
1274	1027	764	709	426

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Number of students benefited by scholarships and freships besides government schemes in last 5 years	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology**

**Response:** A. All of the above

File Description	Document
Details of capability enhancement and development schemes	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

**5.1.4 Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.**

**Response:** 22.95

**5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1135	1130	746	379	271

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies**

2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

**Response:** A. All of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 42.13

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
412	427	297	325	257

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years	<a href="#">View Document</a>

### 5.2.2 Percentage of student progression to higher education (previous graduating batch).

**Response:** 3.79

#### 5.2.2.1 Number of outgoing student progressing to higher education.

**Response:** 36

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**Response:** 98.33

**5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
33	33	10	15	10

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
36	33	10	15	10

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response: 25**

**5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
2	3	8	6	6

File Description	Document
Number of awards/medals for outstanding performance in sports/ cultural activities at inter-university / state / national / international level during the last five years	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution**

**Response:**

**Student Council:**

The Institute has a student council constituted with academically strong students as its body. Each Department Association has a student Secretary, Joint Secretary and Treasurer with a group of Executive Members as per institution norms. The associations plan and conduct events like symposium, technical workshops, guest lectures, technical and fun events and career guidance programs for placement and higher studies based on the students' requirement and also the suggestions received from faculty members. VCET allocates significant funds for the smooth conduction of all the major activities. The association Secretaries will be in contact with alumni, industrial persons and other stake holders for the successful conduct of events every year. The communication between the secretary and persons from industry, alumni and other stake holders will provide opportunities for in-plant training, industrial visits, placements and Memorandum of Understanding for the betterment of students, department and institution. At VCET, every department has a professional student chapter - viz. IETE, IEEE, CSI AND BMESI.

**Academic Committee:**

The institute has academic committee comprising of students from each department where in the students are engaged in academic governance through class committee where the students give their suggestions to the corresponding faculty members. In the committee meetings, the students' suggestions and grievances will be received through committee members and the suggestions will be considered for further



improvement, grievances will be redressed and accordingly actions will be taken. The feedback about the teaching/learning process submitted by every student were kept confidentially and evaluated separately. The Class Representatives for each class is selected based on academic merit in the preceding examination.

#### **Administrative Committees:**

The institute engages students in administrative committees like Alumni Association, various Student Clubs, Hostel and Mess committee where the students give their suggestions and feedbacks on day to day activities. Students' representatives are involved in anti-ragging and anti-sexual harassment activities and have the mechanism viz. suggestion box, website, and contact mobile number etc. to report confidentially to the higher authorities. Involving the students in various administrative bodies has made them more responsible and strengthened their bonding with the institute and this has resulted in many of them coming back to contribute to their alma matter.

#### **Extra -curricular activities committee:**

Various cells and clubs are formed by the institution for extra-curricular activities for the betterment of the students and society. Students are involved in various extra-curricular activities like NSS, NCC, Red Ribbon Club, Youth Red Cross and Rotaract Club in the institute. Many social services are done through these clubs where they learn to coordinate with the team to complete the work. English Literary Association and Toast Masters Club help the students to improve their communication skills by conducting competitions and skill enhancement activities throughout the year. Fine arts club brings out the cultural talents in the students every year. In addition to the above, the students are involved in organizing Technical fest and Cultural fest. Student members of all professional societies and student clubs actively take part in hosting their respective events.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

#### **5.3.3 Average number of sports and cultural events / competitions organised by the institution per year**

**Response:** 7.2

##### **5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
7	5	9	6	9

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events / competitions organised per year	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

#### Response:

Velalar College of Engineering and Technology is an esteemed self-financing co-educational institution aims to achieve excellence in engineering education with a strong emphasis on the upliftment of rural students who have only limited avenues for higher education. The college has been established in the year 2001, with all in-built infrastructural facilities. It offers excellent quality education to empower the students to face all challenging environment after their graduation.

The institution having seven undergraduate B.E programmes and one B.TECH programme, post graduate in MBA and M.E programmes. The alumni's were employed in state and central government, PSU, private limited companies in India and foreign countries. The association chapters exclusively to connect our alumni's were inauguration in metropolitan cities viz., Chennai, Bangalore and Coimbatore. Our alumni are acted as a resource person in various department activities to enrich their knowledge. Alumni's provides the chances to their services to get training and placement.

The alumni's induction programme were organized every year in our institution. The recent and old alumni's were attended physically till the year of 2019. Due to pandemic the same programme were organized through online mode in the year 2020. Our alumni's were contributed funds to their association chapter.

#### Alumni Induction Programmes

Velalar College of Engineering and Technology organized Alumni Induction Programme on 27. 03. 2016 for 2015 passed out students. In this programme more than 100 alumni were participated and interacted with students and shared their knowledge and carrier opportunities.

The next Alumni Induction Programme was conducted on 2nd July 2017 for the 2012-2016 batch. The President of Alumni Association has inaugurated and the Principal, Deans and Heads of department were present. The Alumni participated and guided the final year students to get better opportunities in various fields.

The Induction Programme for Alumni has convened on 2nd September 2018 for the 2013-2017 batch. The alumni focused on the entrepreneur skills and managerial skills.

**Alumni Meet 2018 and Decade Meet (2008 Batch)**

Velalar College of Engineering and Technology organized on Alumni Meet 2018 and Decade Meet (2008 Batch) on 28.01.2018. Thiru.S.D.Chandrasekar, Secretary & Correspondent, VCET, presided over the function and gave presidential address, Dr. M.Jayaraman,Principal, Professor .L.Peter Stanley Bebington, Dean (Academics), and Prof.P.Jayachandar,Dean (Student Affairs) felicitated the gathering. The chief guest of the meet, Er.S.S.Gokul Nathan, Alumni (ECE-2006 batch), Deputy Manager, HR, Mahindra and Mahindra Financial Services Ltd., Chennai has lighted the lamp and given the inaugural address. During the meet, the alumni who awarded the degree from the year 2008 were participated and interacted with our students.

**Alumni Chapters**

The Alumni chapter has inaugurated at Chennai, Bengaluru and Coimbatore on 21.09.2019, 30.11.2019 and 15.02.2020 respectively. The main aim of the alumni chapters inaugurated on the above metropolitan cities are gathering the old students of Velalar College of Engineering and Technology in their surrounding locations,providing opportunities in the wider area, grouping the alumni in their respective locations.

**Alumni Contributions**

Our Alumni was contribted the funds to our institution for past five years is about 37.96 lakhs.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.4.2 Alumni financial contribution during the last five years (in INR).**

**Response:** A. ? 15 Lakhs

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

##### Response:

##### *Vision*

To provide a wide range of Academic and Research Programmes and strive to develop a Centre of Excellence for Learning.

##### *Mission*

- To impart essential knowledge to the students through quality education, training and research activities.
- To inculcate the students with Societal Awareness, Professional Ethics and Leadership Qualities.
- To mould the students as high quality Engineers, Technocrats, Scientists, Administrators and Entrepreneurs.

##### *Nature of Governance*

As a self-financing autonomous institution, Velalar College of Engineering and Technology follows UGC autonomous guidelines starting in 2016-17. The Governing Council (GC) is decentralized, democratic, and transparent. It encourages all stakeholders to participate in the institution's operation. The GC ensures that all stakeholders are involved in the development and implementation of the strategic plan. It monitors and evaluates in accordance with UGC guidelines, the Academic Council and other statutory committees. It also ensures that the institution's policies, rules, and action plan are followed.

The GC ensures that all decisions on admission, budget, infrastructure, teaching-learning process, and placements are in line with the Institute's vision, mission, and quality policy. The GC meets annually to assess performance and actively contributes to the organization's growth. The GC is regularly apprised of the action taken reports and the meeting minutes.

##### *Leadership*

The Principal is the Head of the Institution. He monitors the mechanism regarding administration and academic processes. The leadership is the collaboration of Faculty, Department heads, IQAC, Board of studies for decision making and improving the efficiency of the institution. To strengthen the administration, senior faculty members are deputed to attend various capability-building training programs. Various committees are in place to monitor the institute's progress towards realizing its vision and mission while adhering to quality policy. This fosters collaboration among faculty members and ensures that the programme is consistent with the college's mission to support entrepreneurial activities.

##### *Institute Quality Assurance Cell (IQAC)*

The GC also monitors the quality activities through the Institute Quality Assurance Cell (IQAC). The IQAC monitors the quality of all activities of the institute by conducting audits, awareness programmes, student feedback, student surveys, and training programmes for the faculty and staff.

### ***Responsibilities***

Head of the Departments assign workloads to faculty members with the agreement of the Head of the Institution in accordance with their domain competence. The programme Board of studies is chaired by the concerned Head of the Department. Being an autonomous institution, the changes in curriculum and syllabi are approved by the department board of studies, and the overall improvements and changes in the examination pattern and system are approved by the academic council. The research and development committee is actively involved in developing coherent departmental research initiatives that result in high-quality research.

### ***Finance Committee***

The prospective plans are implemented by the finance committee. It deals with the finance received from the various grants and amounts received from other sources for the overall development and maintenance of the college. The financial requirements are proposed and recommended in the regular meetings, which are then forwarded by the Principal and management for final approval.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## **6.1.2 The effective leadership is reflected in various institutional practices such as decentralization and participative management.**

### **Response:**

#### ***Decentralization***

VCET believes that good governance encompasses to a successful institution's growth and development. This initiative's goals are decentralization of governance and task delegation to senior officials and department heads. This goal promotes accessibility and a participatory management style. As part of the governance, the management transferred power (administrative and academic) to the Principal and academic heads. Decentralization also provides decision-making authority and financial resources. Decentralization has thus influenced engineering education planning, policy making, and management.

#### ***Participative Management***

The Governing Council (GC) is in charge of improving an institution's performance. The GC chairman and members actively contribute to the institute's growth. All institutional decisions and policies are made in the institution's best interest, after consulting with relevant stakeholders. The GC's top-down strategy not

only motivated stakeholders but also helped the institute grow. The minutes of the governing body, other committees, and other academic activities are posted on the college Website. Faculty members are also informed via meetings and circulars. Academic success requires clear roles, responsibilities, and authority for all responsible persons. The college organisation chart depicts the general structure, authority and levels of various administrators.

### ***Institutional practices***

Decentralization and participatory management are the key to the organization's collective leadership and democratic values. This practice is reflected in the extensive delegation of power to department heads. The Department Head guides and supervises the department's teaching-learning plans with the help of senior faculty. Activities such as departmental symposiums, value added courses and industrial visits are planned by the department head. Regarding implementation, the department takes creative and innovative steps to improve teaching and learning process.

The HoD coordinates student and faculty research activities in the department. Department heads plan, organize, and publish the departmental magazine and newsletters with their colleagues. Every semester, the department faculty member organizes parent- teacher meetings with the HOD to inform parents/guardians of academic progress. Faculty members have goals, and involving them in decision-making helps achieve the institution's vision and mission. Academic and cultural activities are framed by faculty members under the direction of the department head. The university has many committees to implement new academic and administrative policies. The academic calendar includes re-opening dates for each semester, working days or holidays, Continuous Assessment Test, Model test and Symposium etc.,.Each departmental faculty member is encouraged to contact the principal or department head with any creative or innovative ideas then and there.

### **Implementation of VAC based on Decentralization**

The Value Added Course (VAC) is recommended to the students to fill the gap between the industry expectation and Institutional procedure. In R2018, the VAC is approved and included in the curriculum. Totally 30 hours are allotted with 1 credit. The suitable VAC is selected based on the feedback received from the students, Class Committee, Alumni Interaction, and Employment Opportunity. The selected VAC is recommended to the students and the faculty is allotted. Based on the assessment, the grade is allotted and a certificate is provided.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for strategic plan and deployment documents on the website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## **6.2 Strategy Development and Deployment**

### **6.2.1 The institutional Strategic / Perspective plan is effectively deployed**

**Response:*****Strategic Plan***

Every academic year, the college follows a tradition of developing a strategic plan before the semester begins. It is being developed with the participation of all stakeholders, both internally and externally. Every academic year, a strategic plan is created to guide the organization. The management's vision is to provide students with a holistic education that instills academic excellence as well as professional ethics in them throughout their time at the college. It emphasizes the importance of promoting technology-integrated development, global competence and entrepreneurship among young learners and college faculty members. The strategic plans are towards institutional holistic development, infrastructure development, faculty strengthening, research and development, student career development, academic excellence, and examination reforms.

***Implementation of Research activities***

The college offers undergraduate, Post graduate, and doctoral programmes. Over the past four years, the college has successfully implemented its strategic vision, with nearly all of its objectives being met to a satisfactory level. The management is firm in its belief that solid research serves as the foundation for knowledge creation and a number of initiatives have been implemented to enhance research and development. As a result, faculty members are encouraged to make research a priority and an environment conducive to R & D activities. The following outcomes have been achieved as a result of consistent and concerted efforts in support of this important strategic goal: In terms of research, projects, and patents, the Department of Research and Development has helped to raise the development graph. Several departments have been designated as research centres by Anna University, Chennai as a result of the university's ongoing efforts. The number of papers published in indexed journals increases year after year as a result of the continued emphasis placed on research and development activities. The publication of research findings under the protection of copy rights and patents has improved. The quality of consulting work has significantly improved.

***Development of Infrastructure***

Faculty and students are also encouraged and motivated to further their technical knowledge by participating in a variety of activities sponsored by the college. The Institute places a strong emphasis on the promotion of research activities as well as the updating of research facility infrastructure. The faculty members collaborate to secure funding for research proposals and other categories from a variety of government-sponsored funding agencies. Three departments upgraded the laboratories with the most up-to-date equipment and software available.

***Implementation of AICTE initiatives- MODROB***

A faculty focus group is formed based on the competencies of the faculty members. For example, in the Department of Electronics and Communication Engineering, three different domain-specific groups have been established to carry out research-related activities for the benefit of both students and faculty members. Communication and Networking, VLSI signal processing, and Embedded Systems are the three areas covered. A proposal has been submitted under the AICTE Modernization and Removal of Obsolescence (MODROB) scheme to upgrade the microwave equipment and components available in the

Microwave and Optical Communication Laboratory, which falls under the communication and networking domain.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### **6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.**

#### **Response:**

#### ***Organization Structure***

The institute's organisational structure is clearly defined with the people responsible for various tasks and the levels of supervision clearly identified. Since VCET is a self-financing Autonomous Institution under the Vellalar Educational Trust, the Managing Body of the Trust, as well as the Governing Council and Trust, play an important role in academic decision-making, administration, and the overall growth of the institution. Following the guidelines of the institution's organogram, the secretary and Correspondent is the highest authority in the organisation. It will be up to the IQAC team to escalate and implement the decision made, as well as the developmental projects suggested by the Secretary and Correspondent. This will be done through the Principal.

#### ***Governing Council***

The Governing Council is the highest governing body of the college, and it is the final decision-making body in all matters. A meeting of the college's Governing Council is held once a year. Several issues pertaining to various academic and administrative matters are discussed and debated in the governing Council, and an appropriate decision is reached while keeping student development as the primary focus of its deliberations and decisions. The Governing Council strongly believes that students should achieve their desired outcomes and as a result, makes all necessary efforts (including the use of appropriate educational methods such as outcome-based education, infrastructure, equipment, and tools) to create a student-centric environment. It adheres to the guidelines established by apex bodies such as the University Grants Commission, the AICTE, and the Anna University in Chennai, and does so with utmost sincerity. The Governing Council monitors the strategic plan on a continuous basis and provides appropriate advice and direction to the administration for the implementation and development.

#### ***Statutory and Non- statutory Committees***

Several statutory and other committees are in place to administer various activities related to academic, administrative, and extension programmes in addition to the Governing Council. As a result, the governance of the college is more participatory, with the governing Council serving as its leader. This



ensures that all student stakeholders experience holistic growth and development. To contribute and promote sustainable socio-economic development through global competitiveness, the Institute places a high value on the social impact and responsibility of its research and development activities.

Administrative setup	Functions
Statutory Committees	Policy making, Recruitments, Budgeting, Financial matters, Quality Improvement
Non-Statutory Committees	Planning Evaluation, Academics, Placement, Student centric activities, Co-curricular and Extra-curricular activities, Industry Institute Partnership
Department Advisory Board	<ul style="list-style-type: none"> <li>• Suggests improvement in academic plans and recommends standard practices/systems for attainment of PEOs &amp;</li> <li>• Encourage industry-institute interactions to bridge up curriculum/industry gap and suggests quality improvement initiatives to enhance employability.</li> <li>• Redefine existing PEO's, aligning of PEO's to the mission statements and defining program specific outcomes.</li> <li>• To propose necessary action plan for skill development of students, required for entrepreneurship development and quality improvement.</li> <li>• To identify and suggest thrust areas to conduct various activities (final year projects, training courses and additional experiments to meet PEOs.</li> </ul>

File Description	Document
Any additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.3 Faculty Empowerment Strategies

#### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression

##### Response:

##### *Welfare Schemes*

The college as a whole takes excellent care of its personnel. Numerous welfare initiatives have been implemented for both teaching and non-teaching workers. The college promotes beneficial welfare programmes for both teaching and non-teaching staff in order to increase employee morale and, hence, motivates them to work efficiently. The college values its personnel's contributions to the institution's overall development and progress. Additionally, it encourages employees to take advantage of welfare benefits with simplicity. The institute provides a variety of welfare benefits to its employees, including promotion and increments based on self-assessment.

##### *Financial Assistance for technical Publications*

Academic excellence awards in the form of cash and certificates of recognition, incentives for the publication of papers/research articles, Incentive programme to encourage individuals to engage in research activities or initiatives, support for faculty members conducting/organizing guest lectures, and assistance for faculty members conducting/organizing conferences/seminars/workshops/FDPs. The institute sponsors annual membership in Indian professional organizations such as IEEE/IET.

##### *Fee Reduction for Transportation/Hostel*

All staff receive complimentary transportation/fee reductions for their daily commute to the college. Faculty members who serve as Bus in-charge will receive a fee reduction of 100%. The other teaching faculty members receive a 50% fee reduction, while non-teaching personnel get a 25% charge reduction. The same benefit is extended to all employees who utilize the hostel facilities.

##### *Health Insurance*

All employees are protected by medical insurance up to a maximum of Rs. 1 lakh per year for accidental and health issues.

***Employee Provident Fund (EPF)***

Additionally, the institution offers its employees the option of contributing to an Employee Provident Fund (EPF).

***Festival Bonus***

A "Festival bonus" is an additional benefit or incentive provided to the employees.

***Emergency care and Ambulance service***

The management provides a full-time dispensary and emergency care at Vellalar Trust Hospital, located 300m from VCET and run by Vellalar Educational Trust. An ambulance service is available 24x7 in case of an emergency.

***General Facilities***

The institution has sports, gym, and yoga facilities; the campus has ATMs. A 25% concession is given to faculty wards enrolled in VCET-affiliated institutes.

***Leave Benefits***

The college offers a variety of leave benefits to all employees, including casual leave, compensation leave (COL), special leave, medical leave, and maternity leave. These benefits are available to both teaching and non-teaching staff. In an academic year, an employee may take up to 12 Casual Leaves and up to 14 special leaves to attend seminars, symposiums, and workshops held by institutions of national and worldwide renown. On-duty leave is available to professors representing the college, either for administrative work or to give a research project report to AICTE/ Anna University/ Technical Education/UGC, as well as five medical leaves (once probation is completed) and maternity leave. To enhance the employee profile, the institution provides a pool of welfare schemes through the assistance of Bank of Baroda, which offers/provides credit options to college employees such as personal loans, educational loans, housing loans, vehicle loans, and employee provident fund schemes.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.**

**Response:** 32.17

**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
80	94	96	70	35

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.

**Response:** 19

#### 6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
21	16	13	24	21

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	<a href="#">View Document</a>
Reports of Academic Staff College or similar centers	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).

**Response:** 48.87

#### 6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise

**during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
171	154	78	110	63

<b>File Description</b>	<b>Document</b>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**6.4 Financial Management and Resource Mobilization****6.4.1 Institution conducts internal and external financial audits regularly****Response:*****Finance Committee***

The institution has internal and external auditing systems in place that are completely foolproof. The finance committee takes great care in its careful verification of income and spending information. The comprehensive internal audit report is then delivered to management via the Principal and Administrative Manager. Once in every two months, internal audit is done by external audit team and once a year, the final audit of the Institution is done by the outside experts.

***Budget Proposal and Utilization***

The procedure for effective and efficient financial resource monitoring is described as follows: The Head of the Institution submits to the Management a budget proposal that incorporates the recommendations of all department heads within the institution. Salary, power, internet charges, maintenance costs, stationery, and other consumable charges are all included in the Institution budget, also include non-recurring expenses like lab equipment purchases, furnishings, and other development costs. Further the expenses, such as research and development are included in the institution budget. The accounts department keeps track of expenditures in accordance with the budget established by management.

***Internal Auditing Procedures***

On a regular basis, the internal audits all of the vouchers is conducted by third party to ensure that they are accurate. Bills and vouchers are double-checked to confirm that the expenses listed under each heading are

correct. If a flaw or deviation is detected, it is promptly brought to the attention of the college's Principal. A legal audit is usually performed at the end of the financial year. The management team examines the audit report. The Accounts department audits and approves the disbursement statements before they are submitted to the Principal. The accounting department acquires laboratory equipment, teaching aids, furniture, and other facilities, as well as provides payments to service providers for maintenance and repairs, in addition to collecting tuition fees, paying salaries, processing tax payments, and disbursing loans. The quality and timeliness of the institution's financial records are extremely important to it. The college is in charge of ensuring that audits run smoothly. No faults or complaints have been detected since the institution has implemented and is an effective system of internal controls such as obtaining quotations, comparison and preparing purchase orders. Approvals are obtained at each stage of the execution process, and the items and services are thoroughly inspected after delivery.

### ***External Auditing Procedures***

The college's financial accounts are audited by an experienced auditor at the end of financial year. Following the audit, the auditor verifies that all transactions are lawfully authorized, and the final report is given to management for review. Any discrepancy detected during the auditing process would be investigated right away, and the supporting documents would be examined within the timeframes set. All of these strategies, in addition to exhibiting financial transparency, show a commitment to financial discipline at all levels of management to prevent the misuse of funds or other assets of the institution. The audited statement is signed by the authorized management personnel as well as the auditor.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### **6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)**

**Response:** 37.8

#### **6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
21.82	7.36	1.60	6.57	0.45

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

#### Response:

#### *Financial Support*

The Finance Committee and the Governing Council are in charge of overseeing and encouraging the proper use of allocated funds. The funds are distributed to departments during budget preparation. Financial assistance is requested from the relevant department. The financial matters are firmly monitored by the accounts section The financial team that will organise the best use of funds. The Institute's Academic Departments and Administrative Sections collaborate on Financial Planning and Budgeting. Every year, budget with projected revenue, general expenses, and capital expenses to better manage funds and plan ahead are added. The Principal will convene a meeting with all department heads to discuss their budgetary needs, which include lab, research, co-curricular, and extracurricular activities. The Principal reviews the budget before sending it to Management for approval.

The institute is self-sufficient, generating funds from student tuition fees and other sources. Every quarter, management will review financial activities and compare budgets with actual to determine whether they are on track or other strategies are needed.

#### *Mobilisation of Funds*

Within their self-conceived development programmes, the college implements academic and non-academic reforms that focus on quality and relevance, excellence, resource mobilisation, greater institutional autonomy with accountability, research and equity. The receipts are primarily generated by the fees paid by students who enrol in the college programmes. Any shortfall in receipts would be covered by borrowing money from the parent trust or borrowing money from banks in the form of Over Draft (OD). Grants obtained through faculty projects submitted to funding agencies through Research proposals are another type of receipt. These funds are used to support the society and the students through research and laboratory development. The institute has a well-defined mechanism for assessing the effective and efficient use of available financial resources for academic process and infrastructure development.

#### *Budget Plan*

Every year, the Principal and Administrative Manager prepare the institutional budget, which includes both recurring and nonrecurring expenses. As a result, all administrative and academic heads are being asked to submit the necessary budget for the coming financial year. In addition, all coordinators of various cells, such as R&D, Exam, T&P, NSS, and so on, are instructed to submit their budgets through the Principal.

The Institute's Governing Council makes all major financial decisions. The Governing Council examines and verifies all major financial transactions under various headings such as Research & Development, Training & Placement, Software & Internet charges, Library Books/ Journals, Repair & Maintenance, Printing & Stationery, Equipment & Consumables, Furniture & Fixtures. When funds are insufficient, management takes out loans to cover the costs. Due to the institute's nature, it has a limited ability to raise funds. Despite this, the college administration has never wavered in its commitment to provide high-quality engineering education at an affordable cost to students, as directed by the state government. It clearly demonstrates that the management has a social commitment to serve society and thus sincerely contributes to the state government's mission and partnered in the state's progress in a small way by empowering young minds.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

**6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)**

**Response:**

### ***IQAC***

The IQAC is led by the Principal, the Chairman of IQAC and consists of the following members: 3 Senior Administrative Officers, one nominee from the local society, two members from management, one nominee from employers/industrialists/stakeholders, Industry Expert Principal, IQAC Coordinator, all HODs, two senior faculty members, and a placement officer. Every month on the last Saturday, the IQAC will meet. The primary goal of IQAC is to create a system for taking deliberate, consistent, and catalytic action to improve the institution's academic and administrative performance. The main goal is to promote measures that will improve institutional performance by internalizing a quality culture and institutionalizing best practices.

### ***Post Accreditation Improvements***

The following are the achievement/academic improvements wherein the IQAC put its stamp of quality practice:

- The Institute became autonomous in the year 2016 and a choice-based credit system was established.
- Implementation of Outcome-based Education as per AICTE-NBA



- The college got NBA Accreditation under Tier-II in the year 2015 for four UG programs: CSE, ECE, EEE, and BME, with the accreditation status granted provisional accreditation for three years for the period from the academic years 2015-16 to 2017-18.
- The IT Department was accredited with the accreditation status granted provisional accreditation for three years for the period from the academic years 2017–18 to 2019–20.
- The accreditation period has been extended for four departments-BME, CSE, ECE, and EEE for the period from 2018-19 to 2020-21 after a compliance visit in the year 2018-19.
- The accreditation period has been extended for the IT Department for the period from 2019–20 to 2020–21 after the compliance visit in the year 2019–20.
- The accreditation period was further extended for four departments: BME, CSE, ECE, and EEE for the period from 2020–21 to 2021–22.

### ***Teaching -Learning***

Student learning is assessed through Continuous Assessment Tests and an End of Semester Examination administered during their direct and indirect assessment tools. Quality checks are deployed at every stage of student learning to not only measure them but also improve them continuously. In order to maintain the quality standards, every process is thoroughly monitored through a wide-range of testing tools, audits, surveys, and feedback channels through the college quality cell. The quality cell at the institution level is known as the Institution Quality Assurance Cell. It is customary that continuous improvement is an essential tool in academic and administrative settings to set up a quality learning ambience. IQAC played a key role in initiating the necessary measures to meet the desired objectives and to foster effective and efficient educational practices.

### ***Academic Improvements***

Some of the significant academic achievements are as follows:

- Doctorate faculty members increased from 23 to 92.
- Technical papers published in reputed national or international journals increased from 26 to 163.
- Significant increase in the percentage of campus placements.
- IPR activities, copyright registration and patent filing are initiated, and two patents are granted, one patent has received a first examiner report, and more than 10 patents are published.
- Increase in receiving external grants from funding agencies like AICTE, CSIR, etc.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

**Response:**

### ***Committees for Quality Improvement***

The institution monitors and periodically reviews its teaching-learning processes and methodologies/practices through various operations and expected outcomes. This process was monitored on continual basis by Institutional Quality Assurance (IQAC) through Programme Assessment Committee (PAC) and Department Advisory Board (DAB). In addition, the IQAC also initiates necessary steps to measure the quality of education through regular and continuous follow-up actions. The roles and responsibilities of the IQAC committee are the same as defined by the NAAC.

### ***Choice Based Credit System***

The institution follows Choice Based Credit System (CBCS) and adopted the AICTE model Curriculum of 160 credits since 2018-19. The curriculum was designed by the faculty of the College following a lot of brainstorm sessions involving various stake holders including the current students undergoing the programme. The students were given more lab/practice-based courses. To expose the students to global learning methods and learn the human skills to reflect upon societal needs, few new courses (four credits) such as universal Human Values and Indian Constitution were introduced in the curriculum. All the suggested changes in the curriculum by the departments and their BOS are put forth to the academic council for approval.

### ***Identification of Slow Learners and Fast learners***

After CAT1, the students are divided into two categories, Category-I (fast learners) and Category-II (slow learners). For enhancing the academic performance, remedial coaching for the slow learning students and project-based alternate assessment for the fast learning students is being carried-out. This helps the students to upgrade their knowledge levels. This process of continuous assessment has resulted in the students to learn and reflect on the learning that they do in the classroom. At the end of the semester, the students undergo the End semester Examination (ESE) which results in awarding the SGPA based on their performance in each examination.

### ***Innovative Methodologies in TLP***

For continuous assessment and evaluation, activity-based learning is encouraged for all courses. Several activity based learning methods are adopted by the faculty members. Mind mapping, polling in video conference tools, conducting quizzes in various mobile applications and tools, conducting experiments in VLab, and peer instructions are followed by the faculty members as a part of their teaching.

### ***Modern Technology in TLP***

Traditional educational approaches have resulted in a mismatch between what is taught to the students and what the industry needs. Therefore, the institution is moving towards problem-based learning as a solution to produce graduates who are creative, can think critically and analytically, and are able to solve problems. The institution mainly focuses on multimedia technology as an innovative teaching and learning strategy in a problem-based learning environment by giving the students a multimedia project to train them in this skill set. The purpose is to assess the students' skills in framing and solving problems using multimedia technologies. The students worked in groups, and each group had to pick a topic for their project, develop, design, and present it.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. Any other quality audit recognized by state, national or international agencies (ISO Certification)

**Response:** 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

**7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.**

**Response:**

Velalar College of Engineering and Technology commits itself to the standard of gender fairness by giving equal opportunity for growth and development to both genders.

**Curricular, Co-Curricular and Extra-Curricular Activities:**

The curriculum includes a mandatory course on Universal Human Values to inculcate the natural acceptance of human values. Institute provides platform for Woman Empowerment. Programs, Workshops with a specific importance on empowering and promoting participation of female staff members and students are organized. Women's day is celebrated by inviting and felicitating woman achievers from different domain of life, which helps in motivating female members of the institute.

Participation of women staff and students in sports and extra-curricular activities is encouraged. Best all rounder awards for the students excelling in academic, co-curricular and extra-curricular activities are given to male and female students independently. This is to ensure the rationality in comparison of achievements by different genders.

Parameters	Girls Participation/Members			
	2020-21	2019-20	2018-19	2017-18
NCC	7	7	10	10
NSS	25	50	45	50
Rotaract club	48	241	226	262
Best outgoing sports woman	1	1	1	1
Best outgoing student	6	7	9	10
Best outgoing student: Co-Curricular activities	6	5	-	-

**Facilities on Campus**

**Safety and Security:**

- 24 X 7 monitoring by security personnel.
- Around 128 CCTV Cameras at strategic points are functioning in the campus which addresses the issues.
- Separate dispensary for female students.

- Separate and secured hostel is available for female students within the campus.
- Grievances and Redressal committee and Anti-sexual harassment committee are functioning in the college to prevent the sexual harassment..
- Ambulance on campus is used in times of emergency.
- Fire safety measures are available in all the laboratories and corridors.
- First-Aid Kit is at hand in all laboratories, hostel and college office.

#### **Counselling:**

- Counselling aims to help students to overcome their problems and also to prepare them to face upcoming problems.
- Individual counselling is offered through the well-established mentor-mentee system which works in the ratio of 1:20 with focus on academic development, career growth, personal improvement and social development.
- Separate counselling rooms are available in the college campus and in hostel for male and female students.

#### **Common Room:**

- Common waiting Halls with rest room facility are available, those who require little span of rest for certain specific reasons can utilize it.
- Conference Hall, Seminar Hall, Fitness Centre, Library, Reading Room and Common Room are available for facilitating knowledge acquisition, health development, interaction and discussion.
- Dispensary is governed by a Doctor and Nurse for providing excellent medical care.

#### **Daycare Centre:**

- Daycare Centre was established in 2012 inside the campus (sister concern) with the objective of taking care of the children of staff working in Vellalar institutions.
- It is equipped with fully furnished hall with two rooms, dining space, toilets, a small play area and accessories including toys.
- A qualified staff is in-charge for the centre with two caretakers.

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b.Counselling c.Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Annual gender sensitization action plan	<a href="#">View Document</a>

#### **7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

**Response:** B. 3 of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

**Response:**

#### Waste Management Steps

- The institution has taken up several initiatives to sustain an eco-friendly campus towards the waste management of solid waste, liquid waste, bio medical waste, chemical waste and e-waste.
- The gardens inside the campus are maintained by a dedicated group of sweepers and maintenance staff.
- The institution implements effective waste management through waste segregation and recycling of the waste.
- To reduce the waste at institute, students and staff are educated on proper waste management practices through Seminars and various programmes.

#### Solid Waste Management

- The waste generated within the campus is collected and segregated through dustbins kept at various sources and transported to disposal site.
- Wastes like papers, tin, glass, metals and plastic are given for recycling to external agencies.
- The biodegradable waste that is generated from the hostel is mostly segregated and the wastes are dumped in biogas decomposer tank for fermentation process to produce biogas, which is used for cooking purpose in the hostel.
- Composting pit is constructed to manage the biodegradable waste that could not be put into biogas plants.
- Sanitary Napkin Incinerator is installed in the girl's hostel to facilitate disposal of sanitary napkins.

- Non-biodegradable wastes are dumped in the space provided.
- To make plastic free zone campus, frequent awareness programmes are conducted for students.

### **Liquid Waste Management**

- Liquid wastes from various points of origination like washrooms, canteen, and laboratories are collected through proper canals, and are disposed to sewage treatment plant without stagnation.
- The treated waste water is used for watering the garden using sprinklers.
- RO waste water is used for cleaning vessels in the kitchen.
- Discussions are held with students to make them aware about the liquid waste management techniques.

### **Bio-Medical Waste Management**

- **Microwave Tissue Incinerator** - Tissue waste and blood waste are formed during the pathology experiments. They are disposed after incinerated by using the microwave tissue incinerator. The ash formed in the incineration process is used as fertilizer.
- **Sharps and Needles Destroyer** - This is an electrical equipment to destroy used needles by burning and used syringe by cutting. Sharps and Needles disposal devices allow safe disposal and prevent the occurrence of puncture and needle-stick injuries.
- **Autoclave** - Autoclave is used to sterilize probes, electrodes, petri dish, culture media and culture tubes before and after the use.

### **E-waste Management**

- The institution has taken up number of E-waste Management methods with the objective of creating a healthy atmosphere in the campus.
- E-wastes such as electronic components/unused computers/UPS/batteries/printers,etc., are collected and handed over to external agencies to recycle the materials.
- The awareness programs are organized in the institution with a view to impart the E-waste management techniques.

### **Waste Recycling System**

- The fundamental principle of the institution in waste recycling system is the implementation of the 3R's-Reduce, Reuse, and Recycle.

### **Hazardous chemicals and radioactive waste management**

Standard Operating Procedures are followed for disposal of hazardous chemicals collected from the laboratories.

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>
Geotagged photographs of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

**Response:** A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>

#### 7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:



- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

**Response:** A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Certificates of the awards received	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Divyangjan friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

**Response:** A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

**Response:**

#### Changing Educational Inequalities

Everyone has freedom to express their own opinions and equal opportunity to participate in teaching, learning, and social activities. The institute provides a culturally inclusive environment with mutual respect, effective relationships, and clear communication. The institution believes in equality of all cultures and traditions as it is evident from the fact that students belong to different caste and religion are studying in the college without any discrimination. There is no segregation of students on the basis of their lingual or communal background. Students feel safe and secure at the institute. The institute maintains complete transparency right from the enrollment and all admissions are done only on merit without any biases.

### **Maintaining Racial and Religious Harmony**

The harmonious life of multi-ethnic communities in our country reflects in the institutional ambience creating goodwill among students towards maintaining peace and national integration. Anti-Ragging Cell acts as a key factor in maintaining tolerance and harmony among students. In the last decade, there has not been a single incidence of ragging which shows the efficient working of the cell. Grievance Redressal Committee is also constituted to address the grievances among students to maintain harmony in the college and have not seen any serious grievances till date. The student representatives of various Clubs and Committees promote harmony and tolerance among students and get sensitized to pluralism and evolve as socially responsible citizens.

### **Equal Opportunity in Programmes and Activities**

Equal opportunities are provided to the students in various activities conducted throughout the session irrespective of their caste, creed, and religion. The institution has Rotaract Club, Youth Red Cross, Red Ribbon Club, NCC and NSS to inculcate a sense of unity, discipline and harmony. The girls are encouraged to take up leadership roles and participate actively in all student activities. To promote a sense of gender equality, many mixed team sports events are organized. The girls are also encouraged to be a part of the NCC. Sports, cultural and technical activities are organized inside the college to promote harmony towards each other.

Every department also undertakes national level competitions to give opportunity to all the students to be part of activities of the Institution. Students are involved in State and National developmental activities under Swachh Bharat Abhiyan and Unnat Bharat Abhiyan. Extracurricular activities where all students converge with belongingness dispel negative attitude. Regular visits are arranged to Orphanages and Home for Aged to strengthen values of love and compassion

### **Celebrations and Events**

The Institution celebrates regional and national festivals and birth anniversaries of national heroes and leaders through cultural programmes and talk sessions. Commemorative days like National Girl Child Day, International Women's Day, National Youth Day, Teachers' Day, Engineers' Day and Yoga Day are also celebrated in the college. All this establishes positive interaction among people of different racial and cultural backgrounds.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

#### Response:

Velalar College of Engineering and Technology organizes various events to sensitize students and Employees of the Institution to the Constitutional Obligations: Values, Rights, Duties and Responsibilities of citizen.

The value of Human was realized more specifically during pandemic period and it became essential to create awareness about corona virus, and as an initiation social cause video was created and uploaded in social media on 1st March, 2020. A poem writing and photography contest on the same was conducted through online on 31st May, 2020 and about 320 people from various areas participated. **National Unity Day** was celebrated on 31st October, 2020 and pledge was taken by students and faculty members regarding **Corruption Eradication**. Students of VCET created awareness on voting rights by distributing pamphlets on 2nd April, 2021. **Gandhi Jayathi** was celebrated on 04.10.2021 in our college and his portrait was garlanded. Apart from the programmes and activities, every year, first year students are offered a foundation course on **Yoga** by the trainers from **Vethathiri Maharishi Institute for Spiritual and Institutional Education**, an educational wing of The World Community Service College (WCSC-VISION), Erode branch.

#### AWARENESS PROGRAMME

VCET also initiated various activities which focus on social cause namely **traffic awareness, women empowerment, effects of over population and impact of literacy**. The students of VCET participated and won 2nd prize in drawing competition conducted by Rotaract Club of Imagica Youth (RID 3060) in view of celebrating **Independence Day** on 14.08.2018. To create awareness towards over population, a rally was conducted, and nearly 80 students had participated and created awareness among the general public.

#### INTERNATIONAL YOUTH DAY

Students of VCET who have more concern about social issues participated in an essay writing competition conducted by Rotaract Club of Saibaba Colony (RID 3201) and Rotaract Club of Kalimati Jamshedpur (RID 3250) in view of **International Youth Day** on 15.08.2018.

#### MENTAL HEALTH DAY

About 152 students of VCET and Velalar College of Nursing, participated in the poem competition to mark the **World Mental Health Day** on 10.10.2018.

VCET Faculty members contributed their one day salary to cyclone relief and additionally student volunteers donated cyclone relief fund and things worth of 1.5 Lakh rupees to the people affected by 'KAJA' cyclone on 23.11.2018. To honour Indian navy, a video was uploaded in youtube channel on 3rd December, 2018.

### YOUTH DAY

On 12.01.2017, **Youth Day** was celebrated to recall the dreams of Swami Vivekananda. The faculty and students of VCET took an oath on that day to meet up his dreams. A professional activity programme was conducted on the topic "Positive Attitude" on 13th March, 2017 to motivate the students and to bring them up as a responsible citizen.

### STUDENTS DAY

VCET also organizes **World Students Day** on 27th July of every year, and on the occasion, various activities were organized for the school students to insist the dreams of Dr.A.P.J.Abdulkalam. Along with this the institute also initiated various activities announced by AICTE, as a part of which, **Swatch Bharath** was carried out on 12th September.

File Description	Document
• Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

**Response:** B. 3 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### **7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

#### **Response:**

VCET proudly celebrates various National and International Events, Days, Festivals and commemorates the various national leaders' birth/death anniversaries to make the students value the importance of the days and the nation. The following are the events conducted regularly:

- World Yoga Day
- Kamarajar Birth Anniversary
- Independence Day
- Teachers' Day
- Engineers' Day
- Onam Festival
- World Sight Day
- Cancer Awareness Day
- Deepavali Celebrations
- National Diabetes Day
- National Youth Day
- Pongal Celebrations
- Republic Day
- Women's Day
- World Water Day

#### **COMMEMORATIVE DAYS**

Many national leaders have a great impact on the lives of millions of people. In order to recall this, the days like National Youth Day on January 12th, Kamarajar Birth Anniversary on July 15th, APJ Abdul Kalam's Birth Anniversary on October 15th, Gandhi Jayanthi on October 2nd are celebrated. This makes a powerful influence on positive character development of the students towards nation.

#### **DAYS OF IMPORTANCE**

Patriotism is the feeling of attachment and love to one's country. To represent this, Independence Day on August 15th and Republic Day on January 26th are celebrated by hoisting flags in college premises and distributing the welfare goods to the scavengers and needful peoples in the orphanages. VCET also organizes various activities like poem composing and assist Government School students to work in the digital platforms to improvise their digital skills towards the growth of the nation.

#### **DAYS OF REMEMBRANCE**

Teachers are the back bone of our society in building the future generation's personality and make them as an ideal citizen of the country. To remark and honour the birthday of former president of our nation Dr.Sarvepalli Radhakrishnan, September 5th is celebrated as Teachers' Day and the day is celebrated for honouring the best faculty member of all the departments.

In commemoration of India's finest Engineer, Sri Mokshagundam Visvesvaraya, his birthday is observed as National Engineers' Day in India on September 15th. The day is celebrated with a motivational talk of resource person who have achievements in various engineering fields. The empowerment of women is a great responsibility of the society. To acknowledge this, Women's Day is celebrated on March 8th for all female students and staff members with various events.

## HEALTH AWARENESS AND FESTIVALS

Good health is one of the main elements of happiness that a person needs in one's life. To emphasize this, World Cancer Day on February 4th, Yoga Day on June 21st, World Sight Day on October 8th, National Diabetes Day on November 14th are celebrated by conducting awareness programmes and medical camps in our college. Conservation is a harmony between human and land. To convey this, World Water Day on March 22nd, World Conservation Day on December 14th are celebrated to sow the importance of ecology/nature to the students.

In VCET, national festivals like Pongal, Onam and Diwali are also celebrated to preserve the traditions and cultures of our nation.

File Description	Document
Geotagged photographs of some of the events	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

### BEST PRACTICE - I

#### NPTEL LOCAL CHAPTER

##### 1. Title of the Practice: 'NPTEL LOCAL CHAPTER'

##### 2. Objectives of the Practice

- To support students and faculty members to strengthen their academic profile for enhancement of knowledge and better career prospects by leveraging the key resources and certification opportunities offered through NPTEL.
- To develop the competencies of faculty and students through improving the quality of engineering education.

- To create an additional pool of knowledge by creating a repository of study materials of hundreds of courses from lectures and presentations by eminent professors throughout the nation.
- To introduce trustworthy, cost effective, flexible sources of online education and sensitize students and faculty to the benefits of online learning.

### 3. The Context

- NPTEL local chapter is instrumental in connecting the enthusiastic learners from every nook and corner to a common learning platform which gives access to lectures delivered by eminent professors from premier institutions of India
- NPTEL certification courses are offered in the open online mode, and hence is one of the most suitable platforms for people who need self-paced learning and have a quest to learn anytime, anywhere.
- NPTEL courses offer courses on advanced or latest core subjects as well as interdisciplinary streams thereby bridging the gap between curriculum and industry demands.
- Financial barrier is no more a cause for concern since course enrolment and learning is free, while the exam comes for a nominal fee.
- The credit transfer facility is of immense help to students who want to put in extra effort to save time that can be utilized for internship and project related activities.

### 4. The Practice

- The courses offered by eminent professors of premier institutions like IITs, NITs, IISc, etc are of 4, 8 or 12 weeks duration.
- Faculty members and students enroll in courses either pertaining to their branch or interdisciplinary. Also, faculty and students are motivated to select courses outside their branch of study to enhance extra knowledge and career prospects.
- A detailed course schedule along with topics covered is communicated and video lectures along with their transcripts are also uploaded.
- Through the official NPTEL website <http://nptel.ac.in>. Videos can be downloaded in MP4, FLV and 3GP file formats.
- Video streams from YouTube link <http://www.youtube.com/iit>, can be downloaded using any of the browser add-ons.
- Accessing Digital Library in college campus.
- Modules are released every week
- Assignments are released and evaluated every week.
- Scores are released after evaluation to ensure correctness of understanding.
- Discussion forums are held periodically.
- Doubts and queries are clarified, discussed and answered in the discussion forum.
- VCET faculty also offers guidance and clarification to students through their NPTEL MENTOR role.
- At the end of the course, a computer based proctored exam is conducted and cumulative score of assignments and online exam is released after the completion of final online exams.
- The candidates who appeared for the exams can view their results in their NPTEL personal login.
- Certificates are awarded as per norms.
- Those who get excellent scores are honoured with 'Elite+Gold, Elite+Silver and Elite' tags
- Some faculty members and students enroll for two courses at the same time and successfully complete exams and receive certificates.

- Students can use the NPTEL programmes for GATE and Higher Studies preparation and hence they are encouraged to enroll for courses for which they need deep conceptual understanding.
- Certificates issued by NPTEL are recognized by companies and research centers to give internship opportunity and so students can choose a particular course which helps in their internship.
- There is a list of industries that give weightage to course certificates, hence completion of NPTEL courses increase employability chances.
- NPTEL courses also help the faculty to initiate meaningful discussion in the classroom and students who have enrolled in a particular course engage themselves in discussions regarding their choice of answers in the weekly assignments.
- While the right answers boost the confidence of students, the wrong answers compel them to go to the video lectures again until they are convinced of the answers given by the course conductor.
- It promotes a healthy competition among students. Faculty members do study and prepare well along with their students.

## 5. Evidence of Success

Ever since its establishment as an NPTEL Local Chapter, VCET has been witnessing continuous success stories of faculty and students alike.

- VCET is one among the top 100 NPTEL local chapters for the last three years in a row.
- In the past five years, the number of Elite+Gold, Elite+Silver, Elite and successfully completed certificates stands at 78,186,582 and 370 respectively. As many as 197 students in 2016-2020, and 250 students in 2017-2021 batch are benefitted through Fast Track system by availing credit transfer facility offered by NPTEL.
- Two of our faculty members Dr.V.Latha Jothi and Mr.G.Boopathi Raja have been recognized as 'Discipline Stars'.
- Students feel that what they have learnt in NPTEL courses come in handy during their technical interviews.
- A few of them even got fruitful placement subsequently to mention students like Baby.R and Karthik Nannepamula have completed their NPTEL Courses successfully and got placed in reputed companies like Accenture and Hexaware Technologies respectively.
- The meaningful exchanges among the students and faculty regarding concepts and assignments create a pleasant learning environment that was unimaginable a few years back.

## 6. Problems Encountered and Resources Required

- Students need self-motivation and self-regulation.
- At times, students choose advanced courses which are too tough to proceed and score good marks.
- Sometimes, students who hail from villages encounter network connectivity issues.

## 7. Notes

Increasing number of enrolments, certificates with 'Gold' and 'Silver' tags are a clear sign of increasing professionalism and commitment to continuous learning. NPTEL local chapter of VCET is a remarkable step towards the institution's commitment to impart essential knowledge through quality education.

## 8. Contact Details



Name of the Principal : Dr. M. Jayaraman

Name of the Institution : Velalar College of Engineering and Technology

City : Erode

Pin Code : 638012

Work Phone : 0424-2244201, 204, 206

Fax : 0424-2244205

Website : www.velalarengg.ac.in

E-mail : principal@velalarengg.ac.in

Mobile : 9750924402

## **BEST PRACTICE - II**

### **MENTOR-MENTEE**

#### **1. Title of the Practice: 'MENTOR-MENTEE'**

#### **2. Objectives of the Practice**

- To help students understand the various dimensions of opportunities and challenges they face during campus life.
- To provide student community with positive role models and motivate them to tap their potential to the fullest creating positive changes in terms of understanding and attitude.
- To develop and nurture core competencies and skills.
- To create trust and confidence in the minds of students by helping them understand that a system is in place to assist their development and address their grievances and personal issues.
- To explain how to establish and nurture a relationship with accountability and responsibility.

#### **3. The Context**

- In our diverse society, teachers are interacting with a diverse group that includes students from different levels of socio-economic status.
- Understanding diversity doesn't only relate to race and ethnicity; it includes understanding students of different religion, economic status, gender identity, rural, urban and language background.
- Mentoring system demands right understanding of issues along with their background, and ensures that each and every student receives the same kind and level of attention and counselling irrespective of their background and status.
- Students from various backgrounds and status are treated at par and given necessary counselling.
- Mentoring system aims at leveraging the abundant practical wisdom of the faculty for the good of

student community.

- The mentor, besides helping to settle issues, strive to educate students how to balance various roles with right understanding, ethics, and emotional balance during challenging times.

#### **4. The Practice**

- Every year, in response to the circular issued by the principal's office requesting mentors list, all the heads of the department prepare a list of faculty members who will act as mentors.
- Upon approval of the same, based on the number of students, a mentor is allotted for every 20 students.
- The mentor and mentee meet once in a fortnight to discuss personal issues, learning environment, career guidance etc.,
- After completion of each session, the mentor submits a report in the specified format provided.
- Any other issue that demands intervention of the Dean and the Principal is taken to their notice immediately.
- The parents stay informed about the performance of their wards throughout their stay in the campus, and parents are given all possible assistance whenever they seek help to sort out issues.
- Strict confidentiality professional boundaries are maintained throughout.
- Each mentee has different values, perspectives, experiences, and interests that may or may not align with the standard norms and practices and our mentors have learnt the strategy of guiding even non cooperative students who demand extensive counselling.
- It is important for mentors to set goals. Goal setting is an important mentoring tool that helps the mentor and the mentee to have a clear idea about the destination they are moving towards.
- Be it academic progress or acquisition of employability skills, our mentors, with the help of the wisdom they have gathered over years can give clear roadmaps to attain the destination.
- Sometimes unrealistic expectations by the mentee prove to be a very big challenge for the mentor.
- During such situations, the mentor seeks the help of his/her fellow mentors for guidance.
- These type of discussions result in sharing of experiences and that leads to the mentor becoming more efficient than before.
- Occasionally, parents are invited and mentors justify the action of their mentee if such actions are not condemnable.
- Due to generation gap, the parents are not in a position to understand or accept their wards' actions

In such situations, the mentors by citing apt examples, convince the parents and make them accept reality.

- Mentoring helps not only the mentee but also the mentors since it provides an opportunity to interact with the younger generation.
- The mentor is able to read the minds of the youngsters and that helps the mentors to stay young mentally.
- Staying young mentally is indeed one of the pre-requisites of any teacher who is supposed to understand and guide the younger generation.

#### **5. Evidence of Success**

- Timely advice of the mentors plays a crucial role in boosting the morale of rural students from Tamil medium and students with low cut off marks. Higher scores in subsequent assessments underline the value of mentorship.
- Students who need language training are identified. Necessary training is provided to improve the

language competency of the students as a result of which many of our students from rural background have got placements in MNCs.

- Mentors play a crucial role in guiding and helping slow learners, students with attendance issues and personal grievances. Timely intervention has resulted in improvement in performance and regularity in attendance. Mentors also monitor whether the slow learners attend remedial classes regularly for their improvement.
- Students are motivated to take part in co-curricular and extra-curricular activities. Mentors ensure that students are in the process of holistic development. Every year more and more number of students participate in co-curricular and extracurricular activities. Growing number of certificates and prizes won each year bear testimony to the fact.

## 6. Problems Encountered and Resources Required

- Occasionally, it takes too long to establish trust in the mind of the mentee.
- Knowledge of the mother tongue of the mentee plays a crucial role and the issue has to be sorted out to ensure efficiency of the system.
- Mentoring demands quality time with the mentee, and it is one of the key challenges a mentor encounters amidst all other academic duties.
- Sometimes the mentee seems uninterested due to reasons unknown, and the mentor needs a lot of patience to convince the mentee.

## 7. Notes

Mentoring system in VCET has emerged as one of the best practices of the college, given its reach and impact. It has yielded very encouraging results since its implementation and alumni of VCET will remember with pride and appreciate with gratitude the mentors who have shaped their lives and personality. VCET is always keen on the holistic development of its student community, and mentoring system is one of its key tools that ensures any obstacle in the developmental path is identified and cleared without delay.

## 8. Contact Details

Name of the Principal : Dr. M. Jayaraman

Name of the Institution: Velalar College of Engineering and Technology

City : Erode, Pin Code : 638012

Work Phone : 0424-2244201, 204, 206, Fax : 0424-2244205

Website : [www.velalarengg.ac.in](http://www.velalarengg.ac.in)

E-mail : [principal@velalarengg.ac.in](mailto:principal@velalarengg.ac.in)

Mobile : 9750924402

File Description	Document
Best practices in the Institutional web site	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.3 Institutional Distinctiveness

#### 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

##### Response:

#### **EMPOWERMENT THROUGH EDUCATION FOR BETTER PLACEMENT**

##### **Vision: To provide a wide range of Academic and Research Programmes and strive to develop a Centre of Excellence for Learning**

Academic and Research Programmes offered in VCET maintain a high standard. The entire teaching learning process is supported by the state-of-the-art facilities. Our institution provides quality and affordable higher education to the rural community students many of whom are first generation learners. Besides ensuring excellence in academics, research and development, VCET has a clear focus on inculcating a sense of entrepreneurship and social responsibility. VCET also strongly believes that it is obligatory to complement academic training with personality development since both go a long way in shaping responsible citizens. Fostering harmony in the body, mind, and environment is the ultimate goal of education, and VCET leaves no stone unturned when it comes to achieving this goal.

#### **EXCELLENCE IN ACADEMICS**

At present, VCET offers 8 UG programmes and 4 PG programmes

Efficient faculty members, interactive class rooms and well equipped, modernized laboratory practice sessions help us achieve the vision. VCET has a strong IT enabled network. All the departments have ICT enabled class rooms. VCET has a well-structured Choice Based Credit System with a focus on Outcome Based Education. Elective courses are framed in accordance with the needs of the industry. The Regulations and Syllabi are monitored by the well framed Board of Studies and Academic Council. Activity based learning is project based and performance based. VCET was recognized as a District Nodal Resource Centre for Spoken- Tutorial Project, IIT Bombay, 615 students and 66 faculty members have successfully completed various courses through NPTEL. 'FAST TRACK' system of VCET supports the students to take up a maximum of two courses additionally during their sixth or seventh semesters and join industries as an intern during 8th semester to pursue their industry based project.

#### **RESEARCH AND DEVELOPMENT**

VCET has a committed, well qualified and experienced set of professors with 30% of the team holding a Doctoral degree and 25% pursuing research. VCET received Rs. 29,31,078 lakhs from various funding agencies like AICTE, CSIR, ICMR, TNSCST and DST NIMAT during the AY 2020-21. 47 papers were published in journals with high impact factor and more citations. VCET provides a forum for the students

to showcase their Innovative thinking. Our students have won prizes in Smart India Hackathon 2020. 16 patents and 11 copy rights were awarded. VCET offers incentives to the faculty for paper presentations and publications.

## **ENTREPRENEURSHIP AND SOCIAL RESPONSIBILITY**

Entrepreneurship Cell in coordination with IIC is functioning on generating excitement in the young engineering brains to produce innovation thereby laying the stones of entrepreneurship. It is recognized and authorized by MHRD, Government of India. The workshops, seminars, invited talks by successful entrepreneurs kindle the young minds to develop entrepreneurial skills.

To impart social responsibility, various clubs like, Green Club and Rotaract Club are functioning effectively. The NSS unit of VCET provides hands on experience to the young technocrats. Our NSS unit has been awarded 'Best NSS Unit' award by the Anna University. The VCET Rotaract Club was awarded with 'Outstanding Campus based Club Award' and 'Super Active Status Award'. NCC has been added as an elective course in curriculum. Our extension activities include programmes and activities conducted by English Literary Association, Toastmasters Club, Fine Arts Club, Viscom Club, Fit India Youth Club, Women Empowerment Cell and all Professional Associations.

## **RANKING**

VCET with prestigious NAAC ('A' Grade) and NBA accreditations occupies a noteworthy position when it comes to ranking. As per India Today Ranking 2019, VCET secured first position in All India level in terms of lowest fee structure, and 9th position in state level as far as career progression and placement. Competition Success Review places VCET in the 2nd position in All India Level in terms of excellence in education. Data Quest 2019 ranking of India's Top Engineering Colleges (Govt. and Private) places VCET in the 5th position in State level. The Week 2019 ranking of Best Private Engineering College, VCET occupies 10th position in State level.

## **MENTORING SYSTEM**

Mentoring system identifies and promotes pro-social characteristics, guidance and counselling are also offered to accelerate personal and professional development of students. Interpersonal skill, adaptability and stress management have been effectively handled by conducting student development programmes. Yoga education helps in self discipline and self-control, leading to immense amount of awareness, concentration and higher level of consciousness. A three-week Student Induction Program (SIP) based on Universal Human Values (UHV) is conducted every year. The course Universal Human Values is also integrated into the curriculum.

## **TRAINING AND PLACEMENT**

VCET has signed Memorandum of Understanding (MoUs) with more than 40 industries. VCET provides various training activities for the students through its Placement and Training Cell. Over 90 % of the students are placed in reputed multinational companies every year. VCET also motivates students to pursue higher education and helps them in their preparation for GATE and all other competitive examinations.

## **OTHER SUPPORT SYSTEMS**

Various scholarships are offered by the institution to enable students to obtain education they may not have access to otherwise. In recognition of the service rendered by the faculty, VCET's faculty are granted financial aid for their wards who are studying in other institutions run by the Vellalar Educational Trust. VCET's alumni base is yet another support group that makes a lot of positive contribution in terms of curriculum design and placement.

The combination of a vision to establish a Centre of Excellence for Learning and a commitment to provide the best education to the rural community at an affordable cost has given the institution a unique attraction. The college's proven track record in producing skilled workforce in all walks of life has given VCET and its alumni a worldwide reputation.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Appropriate web in the Institutional website	<a href="#">View Document</a>

## 5. CONCLUSION

---

### Additional Information :

Velalar College of Engineering & Technology, one of the best known self-financing institutions aims to achieve excellence in Engineering education, with a strong emphasis on the uplift of rural students who have only limited avenues for higher education. The college has been established by Vellalar Educational Trust in the year 2001, with all in-built infrastructural facilities. It offers excellent quality education in such a manner as to empower the students for facing any challenging environment after they graduate from the portals of the college.

The following are our credentials:

**NBA Certification:** In our institution, five courses such as ECE, BME, EEE, CSE, IT has been accredited by National Board of Accreditation.

**ISO Certification:** The College received ISO 9001:2015 certification; Quality Management System in the year 2021.

**NPTEL / SWAYAM:** The institute secured 'A' ranking and all India 100th position for the participation by students and faculty.

**NIRF Participation:** The College has continuously participated for NIRF ranking among the top Engineering institutions for the last three consecutive years.

**India Today Ranking:** The College has ranked as 5th position in state level and 10th position in all India.

**DataQuest Ranking:** The College has ranked as 5th position in state level Govt. & Private institution in all India.

**The Week Ranking:** The College has ranked as 9th position among 300 best private Engineering colleges all over India.

**Research Centers:** The College has three recognized research centers from Anna University, Chennai.

**Infosys Campus Connect Accreditation:** The College was accredited by Infosys Campus Connect Accreditation in the year 2011 and re-accredited in the year 2019.

**R&D and Consultancy:** The institute has received Rs.89.53 lakhs as grant from Govt. & Non Govt. funding agencies and generated Rs 10.9 lakhs as consultancy revenue during last five years.

**Eco-friendly system:** All the buildings and roads within the college campus are garlanded with tall trees and landscapes to maintain pollution free environment. The solid waste generated within the campus is used as bio fertilizers for the plants and trees. The campus lighting is gradually being replaced with LED bulbs to reduce the power consumption.

## Concluding Remarks :

Velalar College of Engineering & Technology aligns all its activities to achieve its Vision. The institute ensures effective curriculum delivery to the students. Apart from this, the institute also promotes Industry readiness skills for the students. The institute runs various activities for the placement of the students. Students are also motivated to do MOOC courses from NPTEL-Swayam, Coursera, etc., and earn relevant certifications. The slow learners get special attention from their respective subject teachers, the average learners are given sessions on Soft Skills, and the advanced learners are motivated to participate in conferences & seminars. The institute has adequate infrastructure for teaching and learning activities i.e., ICT enabled Classrooms. During COVID 19, classes were prepared with a camera enabled system for blended learning. The institute also has enough infrastructures to conduct Co-Curricular and Extra-Curricular activities – in the form of 1 auditorium, 4 conference halls, and 3 GD halls.

To encourage the financially weaker sector of students to have equal opportunities in education, Govt/non-Govt schemes that provide financial assistance throughout the degree program is facilitated as per the criteria.

The institution has all statutory committees such as Governing Body, Academic Council, Boards of Studies, Finance committee and other non-statutory committees that take care of policy decisions related to academic and non-academic activities and their implementation. The institution has well defined strategic plan drafted in line with the institute vision, mission and is monitored by periodic reviews among the senior functionaries. IQAC has been contributing significantly to sustain and enhance the quality in all respects of the institution functioning. IQAC visits are planned at least 4 times in a year. These reports are analyzed and discussed in IQAC meetings for improvement.



## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
2.1.2	<p><b>Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)</b></p> <p><b>2.1.2.1. Number of actual students admitted from the reserved categories year wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>544</td> <td>602</td> <td>609</td> <td>618</td> <td>561</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>544</td> <td>602</td> <td>609</td> <td>594</td> <td>561</td> </tr> </tbody> </table> <p>Remark : Input edited as per the supportive document, number of seats filled against reserved categories seems to be for year 2017-2018 ( Number of seats filled against the reserved categories can not be exceed the earmarked seats.)</p>	2020-21	2019-20	2018-19	2017-18	2016-17	544	602	609	618	561	2020-21	2019-20	2018-19	2017-18	2016-17	544	602	609	594	561
2020-21	2019-20	2018-19	2017-18	2016-17																	
544	602	609	618	561																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
544	602	609	594	561																	
2.4.3	<p><b>Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)</b></p> <p><b>2.4.3.1. Total experience of full-time teachers</b></p> <p>Answer before DVV Verification : 1835.5</p> <p>Answer after DVV Verification: 1644</p> <p>Remark : Input edited as per the supportive documents, No of years of experience can not be expressed in digits, it sold be only in years.</p>																				
3.1.3	<p><b>Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years</b></p> <p><b>3.1.3.1. The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>5</td> <td>2</td> <td>3</td> <td>4</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	6	5	2	3	4	2020-21	2019-20	2018-19	2017-18	2016-17					
2020-21	2019-20	2018-19	2017-18	2016-17																	
6	5	2	3	4																	
2020-21	2019-20	2018-19	2017-18	2016-17																	

1	4	0	4	3
---	---	---	---	---

3.2.4 **Average percentage of departments having Research projects funded by government and non-government agencies during the last five years**

3.2.4.1. **Number of departments having Research projects funded by government and non-government agencies during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	5	4	2

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	6	5	4

3.2.4.2. **Number of departments offering academic programmes**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

3.4.3 **Number of research papers per teachers in the Journals notified on UGC website during the last five years**

3.4.3.1. **Number of research papers in the Journals notified on UGC website during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
65	37	25	17	15

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
15	02	03	03	03

Remark : Input edited as per the supporting documents ,considering which are listed in UGC-CARE, SCOPUS, SCIENCE DIRECT AND WEB OF SCIENCE

3.4.4 **Number of books and chapters in edited volumes / books published per teacher during the last five years**

3.4.4.1. **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

39	22	22	16	14
----	----	----	----	----

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
14	15	13	12	12

Remark : Input edited as per the considering the books and chapter having the ISBN number.

**4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year**

**4.2.4.1. Number of teachers and students using library per day over last one year**

Answer before DVV Verification : 792

Answer after DVV Verification: 574

Remark : Input edited as per the online access 5 days working data

**6.5.3 Quality assurance initiatives of the institution include:**

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2. Collaborative quality initiatives with other institution(s)**
- 3. Participation in NIRF**
- 4. Any other quality audit recognized by state, national or international agencies (ISO Certification)**

Answer before DVV Verification : All of the above

Answer After DVV Verification: 3 of the above

Remark : Input edited as per the supporting documents.

**7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

- 1. Solar energy**
- 2. Biogas plant**
- 3. Wheeling to the Grid**
- 4. Sensor-based energy conservation**
- 5. Use of LED bulbs/ power efficient equipment**

Answer before DVV Verification : A. 4 or All of the above

Answer After DVV Verification: B. 3 of the above

Remark : Input edited as per the supporting documents.

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and**

**other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : Input edited as per the supporting documents.

## 2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p><b>Number of programs offered year-wise for last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>17</td> <td>17</td> <td>16</td> <td>16</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>15</td> <td>15</td> <td>14</td> <td>14</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	17	17	17	16	16	2020-21	2019-20	2018-19	2017-18	2016-17	15	15	15	14	14
2020-21	2019-20	2018-19	2017-18	2016-17																	
17	17	17	16	16																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
15	15	15	14	14																	
1.2	<p><b>Number of departments offering academic programmes</b></p> <p>Answer before DVV Verification : 10</p> <p>Answer after DVV Verification : 5</p>																				