



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**V.R.S. COLLEGE OF ENGINEERING AND
TECHNOLOGY**

NH 45, ARASUR POST, ULUNDURPET TALUK, VILLUPURAM DISTRICT

607107

www.vrscet.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

April 2019

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

V.R.S. College of Engineering and Technology was started in the year 1994 by the S.P.S. Educational Trust with a philanthropic approach of providing value based quality technical education conforming to the global standards and now in the nineteenth year of dedicated service to the people of Tamil Nadu and other states in the field of Technical Education. Initially the institution was started with 3 UG programmes namely Mechanical Engineering, Electronics and communication and Computer science and Engineering. The College currently offers five undergraduate and one post graduate programmes. It is approved by AICTE, New Delhi and affiliated to Anna University, Chennai. It has been accredited by NAAC, earlier by NBA and Recertified for ISO 9001:2008 by TUV SUD South Asia. It has been managed by Board of Governors with Mrs. Vijaya Muthuvannan as its Chairperson and Mr. R. Ramanathan as the secretary and correspondent. Mr. N. Muthuvannan is Director-Board of Governors and Er. M. Saravanan C.E.O. looks after entire administration of the college.

The College is situated at 15KM from Villupuram on the Villupuram - Thiruchirappalli National Highway (NH-45) and at 170KM South of Chennai with nearest Railway Station as Villupuram Junction.

The trust of the institution has a clear vision and mission to improve the socio-economic status of the rural poor peasants by providing opportunities to them to acquire engineering and technical skills at affordable cost. There are fair and expeditious grievances redressal mechanisms at all levels of the institution's functioning. The governing body gives the best of the salary to its faculties besides EPF, Gratuity, Insurance etc. to retain its faculties. The accounts of the institution are properly audited and follow up actions are systemized.

Vision

To improve the socio-economic status of the rural poor peasants by providing opportunities to them to acquire engineering and technical skills.

Mission

To establish and run a technical institution with a high quality teaching and research in a rural area of poor socio-economic status and hence to make the technical education available to the underprivileged at affordable cost.

Our institution is committed to provide value based technical education by continually improving the services to produce qualified and competent technologists and to create a "Centre of Global Excellence". The objective of the college is fairly accomplished by providing higher education to the students of locality as well as various parts of the nation. These objectives are certainly supplement and strengthen the general and specific aim of higher education and help develop a modern society.

A gateway to success, the college is now set on long – range planning to enlarge and enrich its programmes and activities to empower the youth who aspire to become successful engineers, scientists and managers. The college has completed 25 years of dedicated service to the people of Tamil Nadu and other states in the field of Technical Education. The College has succeeded in continuous updation of adequate infrastructure facilities in terms of class rooms, laboratories, equipments, workshops, computing facilities, library, sports[both indoor and outdoor], fully equipped hostels with healthy and hygienic mess, transportation, medical facilities, communication, reprographics, treated hygienic water facilities, upgraded generator facilities, sophisticated Wi-Fi internet facilities at 200Mbps – provided for academic, self learning and research work, guest rooms etc. The required specifications of the laboratories and all kinds of infrastructures are being updated continuously.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Sprawling Campus in a serene environment with excellent infrastructure.
- Dedicated, consistent encouragement and full-fledged support from the Management.
- Well-equipped laboratories.
- Well experienced, dedicated and competent faculty with high retention.
- 200 Mbps Wi-Fi enabled Campus.
- Existence of Placement & Entrepreneurship Development Cell instill as well as foster the spirit of innovation and entrepreneurship.
- Effective value added, certificate and life skills programs
- Effective mentoring system providing constant guidance to the student and feedback to the parent.
- Providing opportunities for all-round development of personality of the student through Sports and Associations.

Institutional Weakness

- Ø Rural based students with average knowledge present.
- Ø Less number of funded projects.

Institutional Opportunity

- Ø Scope for strengthening the industry institution interaction for better placements of students.
- Ø Enter into collaborative projects with industries and other institutions for better exposure to students.
- Ø Conducting training programmes for students to match the industry requirements.
- Ø Considering research projects of National Importance as well as social relevance.
- Ø Exploring more opportunities for consultancy projects.
- Ø Considering to initiate ‘Start-ups’ within the Campus itself.

Institutional Challenge

- To forge strong alliances with National organizations for academic and R&D activities in thrust areas of Engineering & Technology.
- Training the rural-based Tamil medium students in English language and communication skills so as to be selected in the campus interview.
- Achieving 100% students' admission and their placement.
- In this fast-growing technological era, it is becoming difficult to adjust and adapt quickly since the academic curriculum is prescribed by the affiliating Anna University.
- Improving the employability of the students in the current scenario of rapidly changing technology and industrial requirements.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institution is affiliated to Anna University and the curriculum and syllabi are prescribed by Anna University. We strictly adhered to effective curriculum delivery as given below:

- semester plan and year plan
 - Class Time Table
 - lesson plan,
 - Question bank and checklist.
 - Tutorial classes
 - The faculty members prepare the class notes and use various teaching aids such as PPTs and projectors in the classrooms to effectively deliver the content.
 - Class committees are formed for each section of class and students convey their suggestions/grievances on the progress of the course, issues in learning etc. for action in the meetings, being convened periodically. Points are minuted and shared with concerned faculty members for immediate action.
 - Course committee convener conducted the course committee meeting with members for the common subjects before conduct CA Test.
 - The assessments aim to measure course outcomes as against the defined course objectives.
 - Systematic examination process with despatch of progress reports to parents
 - Every semester feedback is obtained from students for each course and for better curriculum delivery in the ensuing semesters.
-
- The interaction with the research bodies and Industry happens through guest lectures, projects, industrial visits and internships.
 - CBCS introduced in 5 UG programs from the academic year 2017-2018.
 - 1108 students enrolled in Add-on programmes.
 - Relevant to gender-equality, equal opportunities are followed in admissions, employment, training programmes, sports activities etc.
 - Curriculum includes courses on Professional Ethics, human rights.
 - To make students ready for higher studies, employable and if possible to be entrepreneurs, technical, Communication skill development courses are conducted.
 - value-added courses imparting for transferable and life skills are being conducted.

- 831 students have undertaken field projects/internships.
- Faculty collect information from their colleagues in the college, from Industrialists, employers, Alumni, and these are discussed among the faculty and the outcome of the discussions are implemented for the betterment of the departments.

Teaching-learning and Evaluation

The details pertaining to teaching-learning and evaluation are as follows.

- The admission is done through Management Quota (35%) and TNEA single window counseling system (65%). The average admission percentage in last five years is 56.31%.
- Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years were 69.19%.
- Each faculty are counseling around 10 students per class.
- Slow learners are closely monitored through special coaching, special counseling, tutorials, and remedial classes.
- Student – teacher ratio in last five years is 10:01.
- A student-centric learning process such as experimental learning, participatory learning, and problem based learning is followed as prescribed by the Anna University.
- 39 number of ICT enabled classrooms.
- 10:01 is the ratio of students to mentor for academic and stress related issues.
- Advanced learners are encouraged to utilize e-learning facilities such as NPTEL video lectures, video lectures and e-journals, also role play and brainstorming to improve their creativity.
- Advanced learners are encouraged to develop major and mini projects from resources available.
- 102.48% is the average percentage of full time teachers against sanctioned posts during the last five years.
- 5.83% is the average percentage of full time teachers with Ph.D. during the last five years.
- 8.56 % is the retention of full time teachers.
- 153.06% of full time teachers received awards, recognition and fellowship at state, national, international level.
- The teachers' quality is improved by conducting faculty development programmes, workshops and seminars.
- The faculty members are encouraged to attend the conferences, seminars and workshops to enhance their technical knowledge.
- Benefits such as casual leave, vacation leave, on duty, special leave, EPF, Insurance are provided.
- A transparent process is adopted in conducting the three continuous assessment tests and after evaluation, students are given a chance to verify the same. Slow learners are identified through continuous assessment test and counseled.

Research, Innovations and Extension

- Grants for research projects Rs.10,000/- per batch for UG students (totally 4 batches of Rs.40,000) was sponsored by State government.
- The Institution conducts vocational training programmes, Life skill initiatives, funded seminars and

Entrepreneur activity programmes.

- A Research Advisory Committee consisting of The Principal, coordinator for R&D and other senior professors from various departments guides and monitors the initiation and progress of research, proposal for funds to conduct research oriented programmes from various governmental bodies, funds for students' projects and initiatives for patent rights for students' projects.
- 93 Workshops/seminars are conducted by all departments on Intellectual Property Rights and encourage Industry-Academia innovative practices.
- The Institution has a stated code of ethics to check malpractices and plagiarism in research papers and students UG and PG projects.
- College provides incentives like gold ring to teachers for their outstanding performances in students pass percentage in university examination and awards Rs.5000 and Rs.2500 for journal publications in annexure I and annexure II respectively. Incentives are also awarded to teachers who receive state, National and International Recognition.
- 9 Ph.Ds awarded for teacher from various universities.
- 1.06 Research papers per teacher, published journals. (135 papers / 127 faculties).
- 39 different extension activities conducted by NSS/YRC / NCC leading to a notable impact on the community as well as participating students regarding social issues.
- 13 awards received from the government/recognized bodies.
- 368 linkages are created for faculty exchange and student-exchange to provide facilities In-plant training, Internship, Industrial visit and hands on job training and research.
- College has signed 31 functional MOU's with Institutions of national and international importance to train the students for providing industrial exposure through implant training, job oriented courses and field trips every year.

Infrastructure and Learning Resources

The available Infrastructure and Learning Resources are

- The college campus is spread over an area of 34.85 acres with a plinth area of 23536.2sq.m
- Our college facilitates 39 classrooms with required facilities.
- The institution has 5 seminar halls, one smart gallery hall, three drawing halls and one auditorium with required comforting facilities.
- Our institution has research labs and The computer center has fast internet connections with Wi-Fi service with a speed of 200 MBPS.
- The college has TNEB 180 KVA facility and generator backup (160KVA & 125KVA) to ensure uninterrupted power supply 24x7.
- RO plant is running to supply drinking water through coolers in all floors.
- A sick room is available with a nurse and 3 beds.
- Our institution has courts, playgrounds for games like Cricket, Football, Basketball, Kho-Kho, Volleyball etc. and track-field for athletics.
- Our students are permitted to participate in club level, Zone level, Inter-Zone level, District level, inter district level, State level and inter university level sports and games.
- Well-facilitated Gymnasium and provision of rooms for practice of cultural activities are available.
- Infrastructure augmentation budget is at an average of 5.63% per year.
- Central Library functions in a Carpet Area of 810.19 sqm, with a reading space of 433.42 sqm with

seating capacity of 120. Around 31,424 stack volumes are available in 13,972 titles.

- Book Bank facility has 1359 volumes in 524 titles. Library subscribes 503 International and 38 national journals,
- NPTEL videos of 10026 and pdf files of 5094 are available.
- Our Library is partially automated with INSPROPLUS Software – Version 6.1, from 2011.
- Average of 8.5% per day is attendance.
- An average annual expenditure per year of Rs. 3, 41,479. Remote access available to the e-resources in the library.
- Student-Computer ratio is 1:3.
- The average expenditure on maintenance of campus infrastructure is 7.20%.
- Established systems and procedures available for maintaining and utilizing physical, academic and support facilities.

Student Support and Progression

Curricular Aspects

The Institution is affiliated to Anna University and the curriculum and syllabi are prescribed by Anna University. We strictly adhered to effective curriculum delivery as given below:

Governance, Leadership and Management

Curricular Aspects

The Institution is affiliated to Anna University and the curriculum and syllabi are prescribed by Anna University. We strictly adhered to effective curriculum delivery as given below:

Institutional Values and Best Practices

Curricular Aspects

The Institution is affiliated to Anna University and the curriculum and syllabi are prescribed by Anna University. We strictly adhered to effective curriculum delivery as given below:

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	V.R.S. COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	NH 45, Arasur Post, Ulundurpet Taluk, Villupuram District
City	Arasur
State	Tamil Nadu
Pin	607107
Website	www.vrscet.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	N.Anbazhagan	04149-209153	9443240278	04149-2019163	vrscet@yahoo.com
IQAC / CIQA coordinator	R.Balasubramanian	04149-209163	9443444719	91-8072666084	baluvrs@gmail.com

Status of the Institution	
Institution Status	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 of the college	20-01-1994

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Tamil Nadu	Anna University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	13-10-2017	View Document
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-04-2018	12	Applied renewal for next year

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
--	----

Recognitions

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	NH 45, Arasur Post, Ulundurpet Taluk, Villupuram District	Rural	34.85	23536.2

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/ Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	HSC	English	120	63
UG	BE,Computer Science And Engineering	48	HSC	English	60	50
UG	BE,Electrical And Electronics Engineering	48	HSC	English	60	51
UG	BE,Electronics And Communication Engineering	48	HSC	English	60	50
UG	BE,Mechanical Engineering	48	HSC	English	120	111
PG	ME,Embedded System Technologies	24	BE	English	18	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	8				16				92			
Recruited	4	4	0	8	11	5	0	16	54	38	0	92
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	8				16				93			
Recruited	4	4	0	8	11	5	0	16	55	38	0	93
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				103
Recruited	87	16	0	103
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				103
Recruited	87	16	0	103
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				10
Recruited	9	1	0	10
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				9
Recruited	9	0	0	9
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.	0	0	0	0	0	0	0	0	0	0
Ph.D.	3	2	0	0	0	0	0	0	0	5
M.Phil.	0	0	0	3	0	0	15	12	0	30
PG	1	2	0	8	5	0	40	26	0	82

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	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

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	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

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	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
PG	Male	1	0	0	0	1
	Female	1	0	0	0	1
	Others	0	0	0	0	0
UG	Male	900	0	0	0	900
	Female	253	0	0	0	253
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	237	188	171	176
	Female	117	81	91	82
	Others	0	0	0	0
ST	Male	4	3	2	2
	Female	0	1	1	1
	Others	0	0	0	0
OBC	Male	651	684	748	790
	Female	135	182	305	454
	Others	0	0	0	0
General	Male	9	11	17	20
	Female	2	7	13	17
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		1155	1157	1348	1542

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 982

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	6	8	8	8

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1155	1157	1348	1542	1654

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
193	256	387	387	281

File Description	Document
Institutional data in prescribed format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
478	338	399	484	459

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

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

2017-18	2016-17	2015-16	2014-15	2013-14
117	131	131	130	128

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
117	131	131	130	128

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 45

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

2017-18	2016-17	2015-16	2014-15	2013-14
663.36	246.04	230.13	289.93	434.36

Number of computers

Response: 436

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

The College is affiliated to Anna University and the curriculum and syllabi prescribed by the university are strictly followed. Apart from this prescribed curriculum, the College has strengthened the teaching-learning process in the following ways:

- Planning of Academic activities and calendar in alignment with the University issued Calendar of Events.
- Formulation of semester plan and year plan at the beginning of the semester.
- Preparation of adequate learning materials which matched with lesson plan and syllabus.
- Maintenance by all faculty members, which contains lesson plan, notes of the , and question bank along with performance details of the students.
- Adopting new and innovative teaching technique Mission 10X, in addition to the traditional lecture method to get the students actively involved in the processes.
- Employing learner techniques such as web related assignments, group discussion, use of NPTEL lectures case studies, projects, quiz etc., in the delivery of the academic courses.
- Teaching faculties are counseling students on academic and personal issues, thereby strengthening the bond between teachers and students, leading to a better learning atmosphere and to sustain their performance.
- Every class has a class committee consisting of all the students in the class and chairperson and faculties from the other department.
- Each common theory course offer to more than one discipline or group have a “course committee” comprising all the teachers teaching the common course with one of them nominated as course coordinator.
- The purpose of course committee is ensuring uniform evaluation of the tests and arriving at a common scheme of evaluation for the tests.
- Organizing suitable invited guest lectures by industry personnel and industrial visits to improve the effectiveness of implementation of the curriculum designed and specified by Anna University.
- framed with provision for Add-on Programmes, seminar, internet and library hours.
- Certificate programmes, value added courses and life skill programmes are being conducted.
- The Head of the department and the Principal do a weekly and monthly review the portions covered by the staff members and also the student’s attendance.
- Monitoring of course delivery and syllabus completion through formal and informal .
- Systematic examination process, standard question papers, proper and prompt evaluation and dispatch of reports to parents.
- Check list is maintained for every subject to monitor the performance of the students.
- Remedial classes are conducting for underperforming students.
- Special counseling during study holidays through phone to both students and parents.
- Coaching during study holidays.

- Providing infrastructure facilities to encourage students for doing the project.
- Updated library facilities with e-journals, NPTEL videos, etc.
- Motivating students for doing research work and present papers in seminars and conferences and publish in journals.
- Adopting for the effective delivery of the curriculum.
- Conducting funded workshops, seminars FDPs, etc.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 150

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
30	30	30	30	30

File Description	Document
Details of the certificate/Diploma programs	View Document
Any additional information	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 0

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of participation of teachers in various bodies	View Document

1.2 Academic Flexibility

<p>1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</p> <p>Response: 100</p>	
<p>1.2.1.1 How many new courses are introduced within the last five years</p> <p>Response: 982</p>	
File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document
Any additional information	View Document
<p>1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented</p> <p>Response: 100</p>	
<p>1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.</p> <p>Response: 6</p>	
File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
<p>1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</p> <p>Response: 97.72</p>	
<p>1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years</p>	

2017-18	2016-17	2015-16	2014-15	2013-14
1130	1123	1315	1510	1625

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

- Equal opportunities are given to both the genders in terms of admissions, employment, training programmes, sports activities etc., and so gender issues do not arise.
- Women' grievance addressal committee is formed and regular meeting conducted to discuss the issues the girl students and the remedial actions to be taken is decided by the committee members and convey to the head of the Institution.
- Girls and boys participate in various co-curricular activities such as paper presentations, Technical events, and organization of paper contests, group discussions and technical quiz programmes.
- Students have a compulsory course on Environmental Science and Engineering, Principles of management. They are taken for industrial visits and effluent and water treatment plants and places that will educate them on environmental issues.
- Awareness programmes are also initiated by NSS, YRC, which extensively carry out activities for environmental protection and ecological preservation.
- The curriculum includes courses on professional ethics and IPR and human rights.

1. Environmental Science and Engineering GE6351

- To study the nature and facts about environment.
- To finding and implementing scientific, technological, economic and political solutions to environmental problems.
- To study the interrelationship between living organism and environment.
- To appreciate the importance of environment by assessing its impact on the human world; envision the surrounding environment, its functions and its value.
- To study the dynamic processes and understand the features of the earth surface.
- To study the integrated themes and biodiversity, natural resources, pollution control and waste management.
- ISTE SRM sponsored Short term Training program in “Recent Trends in Environment Friendly Techniques in Civil Engineering was conducted on 18th to 24th March 2013.
- An “ART EXHIBITION” to create awareness on tree plantation and protecting the environment

was conducted in collaboration with “EraNilam”, an Educational and Charitable Trust, Villupuram at our College on 23 January 2014.

2. Waste water engineering EN8592

To impart knowledge on characteristics of sewage, primary and secondary treatment of sewage as well as disposal of sludge and treated wastewater.

3. Air pollution and control engineering GE8005

Air pollution control, the techniques employed to reduce or eliminate the emission into the atmosphere of substances that can harm the environment or human health.

4. Professional ethics in engineering GE6075

- To enable the students to create an awareness on Engineering Ethics and Human Values, to instill Moral and Social Values and Loyalty and to appreciate the rights of others.
- Safety Initiative Mission (SIM) in association with V.R.S.C.E.T. conducts “Road Safety Awareness Program” every Saturday at Toll gate, Ulundurpet.

5. Principles of Management(MG6851)

- To enable the students to study the evolution of Management, to study the functions and principles of management and to learn the application of the principles in an organization.
- One day National level seminar conducted on “Intellectual Property Rights” on 12th December 2014. By Dr. S. P. Subramaniyan AC, Head of Office and Appellate Authority RTI and Mr.A.K.Balaji ,Senior Associate ,Chennai Office

Total quality Management (GE6757)

- To facilitate the understanding of Quality Management principles and process.

File Description	Document
Any Additional Information	View Document
Link for Additional Information	View Document

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years**Response:** 149**1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years****Response:** 149

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document

1.3.3 Percentage of students undertaking field projects / internships**Response:** 72.12**1.3.3.1 Number of students undertaking field projects or internships****Response:** 833

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System**1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise****A. Any 4 of the above****B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** A. Any 4 of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback processes of the institution may be classified as follows:

A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.03

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	2	0

File Description

Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 52.6

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
325	121	197	345	319

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
420	420	600	600	480

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per

applicable reservation policy during the last five years**Response:** 85.86

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
192	187	267	348	275

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.2 Catering to Student Diversity**2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners****Response:**

First year B.E / B.Tech students and First year M.E / M.Tech students are admitted through single window counseling.

After the students got admitted to our Institution, Orientation programs are organized for the fresher to help them in understanding the Engineering Curriculum. Introductory lectures for all the subjects are discussed.

Initially students are categorized based on the previous qualifying exam marks.

Advanced Learners

The advanced learners are identified by the faculty members based on the Students performance excelled by them in internal assessment tests, Practice test and tutorial classes.

Strategies for Advanced Learners

They are constantly motivated for Active participation not only in the academic activities but also in co-curricular activities such as Red Ribbon Clubs, YRC, NSS, Blood donation etc. along with participation in Internship program, in-plant training, industrial visit etc.

- Advanced learners are motivated to secure Anna University ranks.
- They are encouraged to browse more library and internet resources for gaining knowledge about latest developments.

- They are guided and encouraged to go for paper presentation, technical events, project contests, journal publication and presentation in conferences etc.
- They are mentored for identifying their field of interest and encouraged to go in depth for knowledge development.
- They are being helped for choosing their career path. They are given soft skill training, advance add-on programmes, value added programmes, certificate programmes, and entrepreneurship training programmes to choose their career path.
- They are given the opportunity to plan and organize departmental seminars/symposium and college level co – curricular activities, which enables them to develop their organizing and leadership skills.
- They are guided to write competitive examinations also.

Strategy for slow learners:

- Students who are slow in their learning process are guided by the Counselor, who will assess their problem and guides to achieve the academic goals.
- To improve their academic performance special coaching, Tutorials, remedial classes with separate time table are conducted in class hours and during study holidays of Anna University exam to clarify the doubts.
- During examination study holidays, students and parents are given awareness about preparations.
- Progress report are sent periodically to the parent for getting their encouragement to the students
- Poor performance due to frequent absenteeism is dealt by phone calls and letter to the parents and by periodical counseling.

These measures are being practiced to make the slow learners feel educationally comfortable once they enter into the College.

The slow learners are encouraged to participate in all the programmes designed for advanced learners. Winners are being appreciated in all levels by the management. All students will participate in the social awareness programs, being conducted in the college.

Practicing the above process periodically and systematically will yield us the following

- Improvement in higher results and pass percentage in University Examination
- Improvement in Project Quality with social requirements.
- Improvement in Student Placement and opting for various higher education
- Improvement in Moral quality among the student community
- Improvement in performance of weaker students

File Description	Document
Link for Additional Information	View Document

2.2.2 Student - Full time teacher ratio**Response:** 9.87

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls**Response:** 0**2.2.3.1 Number of differently abled students on rolls**

File Description	Document
Institutional data in prescribed format	View Document

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:**

Our faculty members are trained in Wipro Mission 10X. The various methods adopted by them to practice a student-centered learning are as follows.

Experiential Learning:

The institution provides learning environment in the laboratory to acquire practical knowledge thereby understanding the theoretical concepts clearly. In order to provide better learning experience, the students are encouraged to do experiments using virtual labs and add on experiments.

Students are motivated to perform Mini projects which initiate a process of learning through experience and exploit their innovative skills. Also Students work on application of theory learned through Major projects which helps them to bridge the gap between theoretical concepts and its practical applications.

The institution helps the students to go for internships which bring them a hands-on experience in the industry.

The faculty members encourage the students to observe case studies which are helpful to improve the skills of critical thinking in recent trends of various fields of technology.

Participatory Learning:

The institute is adopted the following methods to transform the learning environment. The faculty members encourage the students to participate actively.

The students are supported through regular classes with quiz, role play, debates, brain storming sessions, group discussions etc.

The faculty members utilize the ICT enabled teaching to share the various concepts and encourage the students to actively participate and clarify their doubts.

The student seminars are organized on pre-assigned topics once a week based on their willingness which provides opportunities for collaborative learning.

All the students are members of professional society such as ISTE which enables collaborative learning and to participate in various seminars and workshops sponsored by ISTE.

Industrial visits are arranged for students by the departments to enhance their practical knowledge.

The students are motivated to undergo in plant training in reputed industries which provides an insight into real life challenges and operational difficulties in industries.

Training and Placement Cell of the institute conducts personality development classes along with academic schedule to acquire interpersonal communication skills, leadership skills, and team work and group interactions.

Every department conducts symposia, certificate programmes, project contest and internal paper presentation to enhance peer learning. Also Guest lectures are arranged to encourage students to interact with eminent and experienced resource personnel from the Industry to improve their technical knowledge and to know the latest trends in the Industry.

Periods are allotted in the time table for web browsing (Internet) and library which stocks latest books and journals for updating the current developments in engineering fields. Also the students use NPTEL on-line video lectures for independent self-learning inside the net lab.

The Students participate in the sports events at the zonal level, inter zonal level, University selection trails and Inter university competitions.

Problem- Based Learning:

Tutorial classes are allotted in the time table itself for problem oriented subjects in which, the faculty member prepares a set of questions for small groups of the students which enable interactive learning. Also few problems from prescribed books and reference books are given as an assignment to improve their performance.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems

(LMS), E-learning resources etc.

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 117

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 31.22

2.3.3.1 Number of mentors

Response: 37

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Classrooms are well equipped and spacious so that the students are seated comfortably and can participate in many innovative and creative methods. The faculty having the synergy of excellence in application oriented teaching and continuous endeavor to impart the knowledge to groom the students into industry ready engineers. The institution has provision for use of LCDs as the part of information and communication technology in the enhancement of teaching process along with Wipro Mission- 10X teaching methods.

Innovative teaching methodology outperforms than the conventional classroom teaching. It fulfills the individual learning requirements and also enhances the concentration level of the students. This also increases or builds the level of thinking among the students. Students will better understand the concept when they solve the problems in the classroom. An ultimate outcome of this effort is to give high quality engineering graduate to the society.

The objective of this approach is, to incorporate various technologies into teaching learning methods and to improve the learning experience of students and also to fulfill the teaching experience of the faculty. This innovative teaching learning strategy is done based on the performance of students grade. Some of the

Pedagogical methods used are: Lecture tutorials, Using media to improve teaching and learning, Peer learning, Just in Time teaching, Using Analytical cases, Interactive lecturing, and teaching with model cases, There are plenty of opportunities for students to supplement the conventional technical education using the following practices as Industry Visits, In-Plant Training, Programming and Problem-solving Contests, Projects and Quiz Competitions, Students Seminars and Debates, Interviews and Group Discussions, Team-building Exercises, Personality Development Programme, India's NPTEL Programme.

Creative Teaching

Taking the help of tools to stimulate creativity Include playful games or forms of visual exercises that will excite young minds and capture their interest. Bring aspects of creativity into all the courses, be it Civil, Mechanical, Electronics and Computer Science.

Audio Video Tools

Incorporating audio-visual materials to supplement textbooks during the sessions. These can be models, filmstrips, movies, pictures, infographics or other mind mapping and brain mapping tools These methods will not only develop their ability to listen but will also help them understand the concepts better.

Brain Storming

Providing time for brainstorming sessions in the classrooms. These sessions are a great way to get the creative juices flowing. When multiple brains focusing on one single idea, we are sure to get numerous ideas and will also involve everyone into the discussion. These sessions will be a great platform for students to voice their thoughts without having to worry about right or wrong.

Due to implementation of various innovative and creative teaching practices, students are very much benefitted in understanding the basic and advanced concepts clearly. It helps them to score higher marks in the continuous assessment tests, model, university examination and getting university ranks. Also students are able to do practical, mini & major projects on their own, participating in conferences, seminar, workshops and publishing papers in journals. The students are confident and successful in placement interviews.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

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

Response: 102.48

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 5.83

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	8	6	9	6

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 8.27

2.4.3.1 Total experience of full-time teachers

Response: 967.425

File Description	Document
Any additional information	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 138.15

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	55	45	31	37

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 8.56

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	10	8	12	11

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

- Three continuous assessment (CA) test and one model exam for theory subjects and one model practical examination for practical are conducted in each semester.
- The department will carry out internal assessment on all subjects based on internal test performance of the students.
- A Practice test with coaching is conducted before each CA Test and their performance is evaluated to find their understanding capability and written skills in representing the answers and the way suggested for better performance individually.
- During tests, students are segregated into two different batches according to their performance and the coaching given to them in an effective manner to clear their doubts and to enhance their speed of learning.
- Slow learners are given with important questions and answers and the various ways of recollecting the key points and Fast learners are fine tuned to perform well for university ranks.
- Remedial tests are conducted for absentees and failure students by framing new questions. Other

students are given with the uncovered portion in the tick list followed by the faculty members for their respective subjects.

- During each uploading of internal marks, the marks evaluated from the Class Assessment test and Practice test are taken into account and displayed in the Notice board. To regularize the attendance of the student, internal marks included attendance mark for 85% and above. The mark allotted varies according to the attendance percentage range.
- The faculties enter attendance and marks of the students periodically. The attendants are strictly followed and those initiated by its own are ensured by the institution by strict compliance of process and procedure suggested by the university in order to follow the continuous evaluation system.
- The Institute has taken following measures for the effective implementation of the evaluation reforms introduced by the University:
- The Institute has Controller of examination from each department for smooth conduction of the examination. The examination committee meets periodically to discuss all the examination related matters.
- At Institute level, effective implementation of tutorial and practice test takes place and results are declared within a week. The students can see their evaluated answer sheets and discuss the same with concerned faculty.
- All the data are collected and stored in digital format for recovery/reference purpose.
- Practical are conducted based on the syllabus prescribed the Anna University.
- Counseling staff counsel the students periodically during each CA test and motivate them in case of failure and the reason for poor performance is noted and effective measures are given for better performance.
- During study holidays for smooth conduction of University theory examination, special coaching classes are conducted for the fine tuning and revision practice for important question and answers.
- Special counseling staffs are allotted and the targeted students list for each faculty members appointed for guiding them throughout the examination time through phone calls and also interact with their parents for effective preparation for the exam.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

Transparency initiatives at institute level:

- Basic eligibility for evaluation process is made known to students through university website and class counseling.
- Institute also notifies the criteria for allocation of marks through notices and class counseling.

Robustness in terms of Frequency

- Continuous assessment schedule is available in the college calendar itself.
- Continuous assessment report and internal marks for all the courses is displayed during every period of Anna university upload.
- Staff meetings are conducted periodically to review the evaluation process and remedial action taken are discussed and recorded in minutes of meeting.
- During Remedial test, Retest test is conducted for absentees under valid reason and also for failure students. Remaining students are informed to write the uncovered portions of the test conducted.
- The targeted student's lists are arrived based on the Anna university results and they divided into two batches for separate coaching to focus on better performance and ensure for no failures.
- Slow learners are given with important question and the method to recollect the answer in an easy way is discussed. They trained to write almost all the key points without fail.
- Fast learners are trained to cover the maximum portions without any deviation. In case if they feel difficult, alternative techniques will be suggested to complete the task.
- Dispatch Continuous assessment test and model exam marks within a week after end of test to the parents through Inland letters.
- Counseling staff are made to contact with the parents during every semester for their improvements in curricular and co-curricular activities and the efforts needed and also to discuss their Anna university results.
- Attendance percentage is consolidated for every 15 days and dispatched in the notice board and below 75% students were sent with a letter informing about their lack of attendance to her/his parents to create an awareness to regularize his attendance. In some irregularity cases, parents are invited in direct to alert their son/daughter from being become not eligible for attending the Anna university exam.
- The answer scripts of examinations are shown to the students after evaluation to bring out the discrepancies, if any, to the notice of teacher concerned, and the necessary corrections are carried out.
- The students are made aware of the evaluation procedures including, internal mark calculations, revaluation and challenge valuation, examination pattern of college and the university, well in advance through circulars as well as information printed in the college calendar.

Robustness in terms of Variety

- Solving grievances of students if any.
- At the end of each semester, The HOD and Principal verify the internal marks for all the students.

- Remedial test conducted for their improvement in their studies by covering the maximum portion of all important question and answers.

Tick list followed by each staff to verify the uncovered portion of each student and to create awareness on completing the important questions.

File Description	Document
Link for Additional Information	View Document

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

<p>2.5.3.</p> <p>QIM</p>	<p>Academic Grievances</p> <ul style="list-style-type: none"> • All students are made aware of the Anna University evaluation processes by the faculty members. • After conduction and evaluation of the test, the subject handling faculty distributes evaluated copies of their test papers to the students. The solutions for the question paper are discussed in the class. The students can approach the faculty in case if they need a clarification on the award of marks and scheme of valuation discussed in the class. The faculty clarifies all doubts regarding evaluation. • The faculty maintains the performance of students with a checklist for each topics. • The college sends the students’ progress report to their parents about their performance in Anna University Examinations and Continuous Internal Assessment tests as and when the results are declared. • The attendance is calculated and displayed in the notice board for every 15 days of each month and its cumulative attendance along with test performance is sent to their parents periodically. • The class advisors and counsellors carefully monitor the regularity of attendance and Students having below 75% attendance in academic, informed to their parents through register post. • Whenever test is held, the class counsellors counsel their students for better future performance in internal assessment tests. <p>Anna University Examination Grievances</p> <ul style="list-style-type: none"> • The university allots 80% marks for the end semester exams and 20% internal marks. • The Attendance and the marks in the internal assessment tests are uploaded in Anna University web portal for 4 periods and after that hall ticket will be generated for the students. • The university appoints faculties from different affiliated colleges, which is headed by a senior faculty, who gives instructions regarding evaluation pattern etc., • Students’ grievance, if any, discussed with faculties along with the guidance of Principal,
--	--

takes care of University examination grievances. The grievances are forwarded to the University for Further Process.

- Grievances like insufficient data in the question papers, question asked from outside the syllabus, question paper being tough etc. are communicated to the controller of examinations through the web portal on the same day of the conduct of exam by the faculty concerned through the HoDs concerned and the Principal for necessary action.
- A candidate can apply for revaluation of his/her semester examination answer paper in a theory course, within two weeks from the declaration of the results, to the controller of examination through the Principal.
- The University provides the students with an option of obtaining photocopy of their answer sheets after the declaration of results.
- The student can review his/her answer sheets and apply for re-evaluation on the recommendation of the subject handling faculty.
- If a student is not satisfied with revaluation results, they can go for a challenge
- Challenge evaluation fee is reimbursed by the University.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

- Academic year starts as prescribed by Anna University.
- The academic calendar containing plans for curricular and co-curricular activities based on the available working / teaching days as per university norms.
- This university calendar is used as a reference to prepare academic calendar of the institution.
- Before Preparation of Academic calendar a discussion will be made by the head of the department of all branches with the Principal.
- After Preparation of academic calendar based on university calendar, sent for the approval by the heads of departments and the Principal.
- The academic calendar is then circulated to all faculty before the commencement of the semester.
- The hard copy of the same is distributed to all the students and faculties to enable them to perfectly plan the academic activities.
- Based on the academic calendar, year plan and semester plan for the year and semester are prepared at the college level and communicated to the faculty and students through the HoD concerned.
- Appointment of coordinators, class in-charges and class counsellors for effective monitoring of the academics.
- Appointment of Committee conveners and committee members for the effective monitoring of institution.
- Academic calendar of the Institute includes schedule of curricular activities, assessment dates, time table with tutorials, technical events, class tests, dispatching of test papers, submission of mark

lists, Reopening date of the semester, Last working date of the semester, list of holidays and extracurricular activities.

Also includes

- Based on IQAC recommendation Conduct of Continuous Assessment Tests, Practice Tests, Model theory and practical Examinations.
- Conduct of the Course committee meeting, Class Committee Meeting and record the Minutes.
- Conducting Tutorial hours for analytical subjects
- Conducting Bridge course for the First Year and Lateral entry students
- Arranging Guest lecture for students relevant to their current courses
- Arranging inauguration and symposiums for each department.
- Feedback collection on teaching learning and curriculum for each department.
- Conduct of internal paper presentation.
- Guiding and motivating students to do innovative projects
- Arranging in-plant training for the students to have industry interaction
- Conduct of software training and Value added courses for the students to fill the academic and industrial gap.
- Conduct of association activities like seminars, quiz and group discussion to help the students towards placement.
- Lesson plan, session plan and unit plan are prepared based on the academic calendar.
- The detailed lesson plan / teaching methodology as suited to syllabus is prepared by each faculty before starting of the semester.
- The lesson plan comprises of content, learning aid and methodology, faculty approach and course outcomes. The lesson plan generally highlights the content, applications, content beyond the syllabus and total lectures for completion of the curriculum.
- Classroom teaching by giving lectures with discussions, chalk & talk, PPTs, group discussions, quiz, seminars, visual aids, models, videos, NPTEL videos etc.,

Monitoring of implementation of lesson plan is done by HoDs and corrective actions are suggested wherever required.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

Programme Outcomes (POs):

The outcomes of departments are that the students after successful completion of the course will acquire

- a) An ability to apply knowledge in mathematics, science and engineering subjects.
- b) An ability to identify, formulate and solve engineering problems.
- c) An ability to design and conduct experiments to interpret data and analyze the results.
- d) An ability to design system components or processes to satisfy the needs of the society within realistic constraints such as economical, social, political, ethical, health, safety and manufacturing.
- e) An ability to function on multi-disciplinary teams.
- f) An ability to understand professional and ethical responsibilities.
- g) An ability to communicate effectively.
- h) An ability to gain knowledge to understand the impact of engineering solutions in a global, environmental and societal context.
- i) An ability to understand the need and engage in life-long learning process.
- j) To gain knowledge on contemporary issues.
- k) An ability to use techniques, skills and modern engineering tools necessary for engineering practice.
- l) Project management and finance

Program Specific Outcomes (PSOs):

Program Specific Outcomes (PSOs) are what the graduates of a specific postgraduate program should be able to do at the time of graduation. The PSOs are program specific. PSOs are written by the Department offering the program. PSOs should be two to four in number. A Department can differentiate its program through PSOs.

PROGRAM SPECIFIC OBJECTIVES (PSOs)

1. Ability to analyze, design and synthesize different electrical and electronic systems for applications with knowledge of various materials used and its feasibility with the environment.
2. To develop software based comprehension and use of MATLAB, CAD, and MIPOWER etc., in applied science.
3. Creative design to produce and maintain quality of power supply and use of suitable instruments for

energy audit and calibration.

4. To understand the concepts of modeling analysis of electrical and electronic systems and application of different converters and processors to optimize the process.

Course Outcomes:

HS8151-Communicative English [C1]

C1.1 To develop the basic reading and writing skills of first year engineering and technology students.

C1.2 To help learners develop their listening skills, which will, enable them listen to lectures and comprehend them by asking questions; seeking clarifications.

C1.3 To help learners develop their speaking skills and speak fluently in real contexts.

C1.4 To help learners develop vocabulary of a general kind by developing their reading skills.

C1.5 Write short essays of a general kind and personal letters and emails in English, Participate effectively in informal conversations; introduce themselves and their friends and express opinions in English.

Learning outcomes and Students performance should be communicated to

1. Accreditation Boards

2. Institution's Administration

3. Faculty

4. Students

5. Parents

6. Employers

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

Students' progress and learning outcomes are monitored through continuous evaluations, tutorials and laboratory exercises, and live projects/assignments. The College conducts three tests in all courses and reviews the performance of students in the faculty meeting. At the end of each semester, student feedback is taken; course wise performance of students is discussed, analyzed and recorded in terms of grades. Based on discussion, feedback of student and faculty, course contents are improved. Weak students are encouraged for special meetings and interaction with the faculty to identify their problems and means to solve them.

Assessment – Assessment is one or more processes, carried out by the institution, that identify, collect, and prepare data to evaluate the achievement of programme educational objectives and programme outcomes.

Evaluation – Evaluation is one or more processes, done by the evaluation team, for interpreting the data and evidence accumulated through assessment practices. Evaluation determines the extent to which programme educational objectives or programme outcomes are being achieved, and results in decisions and actions to improve the programme.

Mapping – Mapping is the process of representing, preferably in matrix form, the correlation among the parameters. It may be done for one to many, many to one, and many too many parameters.

Bloom's Taxonomy of Learning Domains was created in 1956 under the leadership of educational psychologist Dr. Benjamin Bloom in order to promote higher forms of thinking in education, such as analyzing and evaluating concepts, processes, procedures, and principles, rather than just remembering facts (rote learning).

It is most often used when designing educational, training, and learning processes.

The three Domains of Learning are

- (1) Cognitive: Mental Skills (Knowledge)
- (2) Affective: growth in feelings or emotional areas (attitude or self) and
- (3) Psychomotor: manual or physical skills (skills).

COURSE OUTCOME ASSESSMENT METHODOLOGY

The process of attainment of COs, POs and PSOs starts from writing appropriate COs for each course in the four-year engineering degree program. The course outcomes are written by the respective faculty member using action verbs of learning levels as suggested by Bloom Taxonomy.

Then, a correlation is established between COs and POs and COs and PSOs on the scale of 0 to 3, 0 being no correlation, 1 being the low correlation, 2 being medium correlation and 3 being high correlation. A 6x12 mapping matrix of COs-POs and 6x4 mapping matrix of COs-PSOs is prepared in this regard for all courses in the program.

ATTAINMENT OF COs AND POs

Thus, mapping matrix of COs – POs and COs - PSOs are prepared for all the 56 courses and finally these matrices are merged to form a Program level CO-PO Matrix and CO – PSO Matrix.

Some of the Direct CO assessment tools used to measure the attainment levels are :

Continuous Assessment Test – I,

Continuous Assessment Test – II,

Continuous Assessment Test – III,

Model Examination,

Assignments, Quiz, End semester exams, Performance during experiments etc.

Course/Subject feedback is also collected at the end of the semester. The different weights are assigned to each of above tools.

File Description	Document
Link for Additional Information	View Document

2.6.3 Average pass percentage of Students

Response: 74.37

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

Response: 264

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 355

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.76

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 0.4

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.1	0.3	0.0	0.0	0.0

File Description	Document
List of project and grant details	View Document
e-copies of the grant award letters for research projects sponsored by non-government	View Document

3.1.2 Percentage of teachers recognised as research guides at present

Response: 0.85

3.1.2.1 Number of teachers recognised as research guides

Response: 1

File Description	Document
Any additional information	View Document

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0.16

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 4

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

Response: 127

File Description	Document
Any additional information	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

- Our Institution concentrates more for the betterment of students by practicing many number of students oriented programmes. Many vocational education training programmes such as
 - House wiring, motor rewinding are conducted for electrical and electronics engineering students;
 - Simple mini-project design using discrete components and using active components (IC and programmed controller) are conducted for electronics and communication engineering students;
 - Mobile servicing, hardware de-assembling and assembling of personal computer are conducted for computer science engineering students;
 - CNC machine language programming, assembling and dismantling of I.C. Engines and Air Conditioning machines are conducted for mechanical engineering students.
- Apart from technical programmes, college has responsible to impart life skill programmes such as awareness programs on
 - Cybercrime and safety measures
 - Road safety programmes
 - HIV & AIDS awareness
 - Gender equality and women Empowerment
 - Usage of Plastics and its consequences
- College supports and motivates the student community for applying fund related projects from government or non-governmental organization. Our students received funds of Rs.40,000/- from TNSCST to carry out their undergraduate projects in 2017 and 2018.
- College encourages the students for entrepreneurship by conducting programmes by EDC every year through funds received from Entrepreneurship Development Institute of India under DST-India.
- Many funds have been received to conduct workshop and seminar for students to get exposure in recent trends in technology and its application in current industries.
 - Received Rs.40,000/- and Rs.30,000/- from DHR-ICMR under Scheme of organizing “Clinical Training/Translational Research Workshops in 2016.
 - Received Rs.45,000/- from Popularization of Science under Tamil Nadu State Council for Science and Technology (TNSCST) to conduct seminar and workshop in 2017.
 - Received Rs.5,000/- from Indian Society for Technical Education(ISTE) to conduct seminar in 2014.
- The college support institute industry interaction initiatives by encouraging the students

- To do In-plant training and internships in industries like NSIC (A Govt. of India Enterprise), TCIL – IT (A Government of India Enterprise Under Ministry of Communication & IT), TAMIL NADU STATE TRANSPORT CORPORATION, CHENGALRAYAN CO.OP SUGAR MILLS LTD, NLC INDIA LIMITED, E.I.D. PARRY INDIA LIMITED, LENOVO (INDIA) PRIVATE LIMITED, TVS SUNDARAM IYENGAR & SONS LTD, for enriching knowledge in practical problem solving;
- To Industrial visits every year for enriching the knowledge of students in both software design and manufacturing operation.
- Conducted seminar and workshop through funds of Rs.1,40,000/- and 1,50,000/- received from TNSCST to train the students for making Industry ready by inviting experts from Industries.
- Several core related add-on courses like Embedded systems, CADD design, C-Sharp, PLC-SCADA are conducted for students to impart latest current technologies practiced in Industries.
- Students are continuously encouraged to participate in external technical paper presentations and external major project contest organized in other institutes.
- Students are also motivated to think of innovative ideas and apply for patents Rights through research and development cell.
- College continuously motivates the students in all aspects and thus supports life skill initiatives for creation and transfer of knowledge for students' better future.

File Description	Document
Link for Additional Information	View Document

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 93

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	16	17	17	31

File Description	Document
Report of the event	View Document
List of workshops/seminars during the last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research**Response:** Yes

File Description	Document
Institutional data in prescribed format	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards**Response:** Yes

File Description	Document
e- copies of the letters of awards	View Document

3.3.3 Number of Ph.D.s awarded per teacher during the last five years**Response:** 8

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 8

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

Response: 1

File Description	Document
URL to the research page on HEI web site	View Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years**Response:** 0.98

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

2017-18	2016-17	2015-16	2014-15	2013-14
23	20	29	27	26

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.3

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	9	0	16	1

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

- The College has made its noteworthy contribution to the society and environment by making a participation to promote College-Neighborhood-Community network.
- NSS unit and a team of committed faculty members engage students in the community development programmes.
- Rural India has been facing uncleanliness, unhygienic, malnutrition conditions and the most important problem is open defaecation.
- Lack of awareness is noted among the villagers about such problems like health, cleanliness and diseases. Our NSS unit works for solving such social problems.
- Annually, NSS unit organize health, blood donation and haemoglobin checkup camps in collaboration with government and non-government organizations. Students donate blood and learn it's important for life support for others.
- Experts are invited to deliver their talk on health, nutrition and girls' related issues. These activities among students make positively impact on health awareness and personal hygiene.

- Working together with other individuals, students learn to negotiate, communicate, manage conflict and lead others.
- The college has majority of the students from nearby rural background. Therefore it has been necessary to educate them in many aspects which intern will benefit their families and thus focus on the improvement their localities.
- The college supports them by conducting programmes such as
 - Gender equality and women Empowerment
 - Dengue awareness camp
 - Malaria awareness camp
 - HIV-AIDS awareness camp
 - Awareness on blood donation
 - Eye camp
 - Usage of plastic and its consequences
 - Use of bio-organic materials
 - Awareness on scarcity of drinking water in India
 - Importance of Road safety education
- Apart from NSS activities, college organizes many social issues and awareness camp every year for the benefit of students, through YRC and RRC wing.
- College along with the support of government hospital doctors from Eruvalpattu Primary Health Centre, conducts programmes such as
 - Dengue awareness meeting
 - Malaria and Vector Borne diseases Control awareness meeting
 - Malaria Month Awareness camp
 - World Malaria day meeting
 - Leprosy and TB awareness meeting with the students.
- Flag Day donations have been continuously supported by students through RRC.
- College also conducts programmes every year for road safety measures for students under guidance of RTO office, Ulundurpet, thus students were made awareness and precautionary steps to be adopted for safety of human life.
- In order to remember and inculcate the importance of Indian history for the students, college also celebrate Independence Day and Republic day.
- Major emphasis is given on student engagement, service orientation and holistic development of students contributing to good citizenship.
- Such programmes sensitize the student volunteers towards the social issues and take challenges of the lesser privileged sections of the society.
- Involvement in these extension and outreach activities the students develop critical thinking skills and time management.
- Working outside the college campus and with diversified social groups of peoples allows students to gain more self-confidence, autonomy, and appreciation for others.
- These activities help them to become good leaders and well mannered citizens.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 0

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 39

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	2	3	8	19

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 1.48

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
75	3	3	3	4

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 368

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
83	57	89	79	60

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document

3.5.2 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: 28

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	2	4	20

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The college campus is spread over an area of 34.85 acres with a plinth area of 23536.2 sq.m comprising buildings of high-standard, classrooms with proper ventilation, numerous laboratories, auditorium, Gallery hall, Seminar hall, library, buffet hall, security room, canteen, boys and girls hostel and sophisticated guest rooms. Restrooms are available in each floor of the building for faculties as well as boy and girl students. Also separate restrooms are available for boys and girls adjacent to the building.

The college has TNEB 180KVA facility and generator backup (160KVA & 125KVA) to ensure uninterrupted power supply 24x7.

Our college facilitates the students with 39 classrooms which are very spacious, aerated, ventilated and fitted with adequate number of lightings, fans, blackboards with portable projector and 6 seminar halls with ICT facilities.

All Laboratories fitted with latest equipment's as per AICTE and Anna University norms. The computer laboratory with adequate numbers of high end computers and latest software loaded.

The college is also enabled with Wi-Fi net service with a speed of 200 MBPS. So that the students can make an optimum use of network for their studies, presentations, project works etc., Which maximizes the use of ICT and assist them to complete their learning in a successful way.

A smart communication skills laboratory is available for the students to enhance their ability. The lab is equipped with high end computer attached with headphones. It is fully air conditioned to suffice the students of all branches to practice and expertise the basic language skills such as listening, speaking, reading and writing and thereby enhance their language competency.

Each floor and the surrounding premises of the college is installed with adequate fire safety devices, especially in the Laboratories which is highly risk area.

RO plant is running in the college to supply water through coolers in all floors.

A sick room is available in the ground floor with a nurse and 3 beds. If emergency arises, they will be taken to the primary health center at Iruvelpattu by a dedicated van 24X7.

First aid kits for everyone is available in the HOD room, office room, sports room and NSS unit.

The gallery hall and conference room are fully equipped with portable projector and air conditioned.

Our auditorium with air conditioned, which can accommodate more than 270 students with a set-up of portable projector, white board with digital surround speakers and cordless microphones.

Separate hostel for boys and girls are available in the campus. Hostels are convenient and spacious, well ventilated and lighted rooms with cots, cup boards, tables and fans. Hostel provides the students with nutritious food, television, telephones and study hall. Hostel wardens, floor in-charges to take care of the welfare of the students. The security services are provided round the clock to ensure safety. Generator backup (40KVA) to ensure uninterrupted power supply 24x7.

Our college provides bus facilities for both boys and girls. Fifteen buses and 4 vans are operated from different locations of the neighboring areas.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response:

Our College encourages the students to participate in various sports and games, along with academics. Every year, we are conducting sports meet for all students in the name of "TURNER FEST" by grouping students into four houses namely Agni, Bhramos, Prithvi, and Trishul. The prize-winning students are appreciated and awarded on the Annual Day celebration. Among all final year students the best performed student in sports and games will be awarded with "Best out going sports person". The highest points scoring house will be declared as "Over all house championship" in that particular academic year. Also our students are permitted to participate in club level, Zone level, Inter-Zone level, and District level, inter district level, State level and inter university level sports and games. Our college encourages students to participate in both indoor and outdoor games such as Cricket, Hockey, Kho-Kho, Volleyball, Badminton, Chess, Table Tennis, Carrom Board, etc., As a result, our students won many titles in various sports and games. Our college is hosting regular sports meets such as:

- Anna University Zone, inter Zone level Taekwondo, athletics and Badminton.
- V.R.S. Trophy Inter School Tournament for Volleyball, Football (Boys), Badminton and Chess.
- Kapildev Rolling Trophy - Inter-Collegiate Cricket Tournament
- State Level Referees Coaching Class for Kho-kho sponsored by School Education Department in 2015
- Taekwondo sponsored by RDS /BDG School Education Department during 2016-2017

To maintain and improve the physical fitness of both students and faculties, our institution provides a well-equipped Gym, functioning up to 7 P.M on Week Days. The equipments in our Gym are 8-Station Multi Gym, Treadmill, Parallel Bar, Bench Press, Dumbbell, Pull up bar, Push up bar, etc.,

The specifications of available sports and games facilities are

S.No	Sports/indoor	or No. of courts	Area	Size	Year	of user

	outdoor /games/gym/cultural activities/yoga				establishment	
1.	Volleyball (Alternatively used)	1	4000 Sq.m	25m x 16 m	2002	82%
2.	Ball-Badminton	1	2400 Sq.m	13.42'X19.52'	2005	70%
3.	Cricket Nets	2	20.8 Sq.m	12'x80'	2002	85%
4.	Cricket ground	1	154785 Sq.m	210' circumference	2002	85%
5.	Football (alternatively used)	1 Fields	8250 Sq.m	1100m x 75m	2002	80%
6.	Kho-Kho	1 Field	48,600 Sq.m	25m x 16 m	2010	85%
7.	Hockey (alternatively used)	1 Field	48,600 Sq.m	90mx60m	2008	56%
8.	Multi Gym	1	64,000 Sq.m	40mx16m	2005	50%
9.	Badminton Indoor	1	41217 Sq.m	40'x22'	2015	80%
10.	Table Tennis	2 Boards	-	-	2000	65%
11.	Carrom	4 Boards	-	-	2015	65%
12.	Chess	20 Boards	-	-	2003	65%
13.	200M Athletic	Track – field	36435 Sq.m	-	2005	55%

In the aspect of promoting Ethics among Students, we are practicing Meditation daily from 9:15 a.m. to 9:20 a.m. Also, for mind relaxation and health improvement, we offered Yoga in association with Vazhga Valamudan, Villupuram.

Every year our college conducts cultural activities during symposium and annual day. Some of our cultural activities are dancing, singing, essay writing, poetry, short film contest, rangoli, mehendi, mime, drawing, painting and food festival.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 45

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
any additional information	View Document
Link for additional information which is optional	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 6.5

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	22.11	16.47	25.03	33.64

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document

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). Our V R S College of Engineering and Technology (VRSCET) has a well stocked Central Library possessing books collection as per Anna University syllabus. It functions in a Carpet Area of 810.19 sqm, with a reading space of 433.42 sqm. Library is kept open for users from 9 a.m. to 5 p.m. The total seating capacity of Library is 120. It is stacked around 31,424 volumes of books with 13,972 titles. Book Bank facility also available with 1359 volumes of books and 524 titles. Library subscribes 38 national journals which facilitate the students and faculties for their academic development. Users shall access International journals through DELNET web portal as we have the membership, user ID and password. Our library provides OPAC (Online Public Access Catalogue) facility to the users. We have NPTEL Lecture Videos around 10,026 and subject materials in PDF form around 5094.

Our Library is partially automated with INSPROPLUS Software – Version 6.1, from 2011.

- It helps Books-Cataloguing and permits the administrator to insert, update, delete and view the details such as book, member, author, subject, department, supplier/publisher, book bank, reports in the cataloguing module
- In Circulation Section, book issue and return process has been made simple with this software.
- Generating reports of department wise book list with this software. Further it helps in getting number of titles and volumes of overall books repository.
- It helps in maintaining gate register which in turn facilitate to get Library Utilization Report.

E-resources with adequate facility to access is available. Students are permitted to take the e-resources which are in the form of CDs to their home. The user IDs and Passwords have been displayed in browsing section.

A separate reference section is available from where the users can access their required reference resources.

Our college Library provides Open Access facility to the users.

Users can access the Journals and Magazines from periodical section. Journals have been subscribed for all the departments respectively.

Library Hour has been scheduled for all the students. During library hour students are provided with resources to develop their English Communication Skills.

Students and Faculties are provided with 3 & 4 nos. of Library Cards respectively. They can take books from Library to their home for a period of 2 weeks. Renewal of books also being given to the students for another 2 weeks. Book Bank service available for SC / ST students. Our Library is providing internet browsing facility with band width of 200 Mbps. Adequate facility is available for providing reprographic service to the students and faculties. A separate printing section functioning under library. Students study materials for all the 5 units, prepared by faculties are being printed and distributed to the students at the beginning of every semester. Our college library is supporting students as well as faculty members in all aspects of their academic requirement as and when needed.

File Description	Document
Link for Additional Information	View Document

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Sl. No.	Book Title	Publisher	Author	No. of copie
1	Britannica	Encyclopedias Britannica, Inc.	-	34
2	IT Encyclopedias	Pentagon press	ParagDiwan,	1-10
3	World of Science	S Chand	Lionel Border	1-22
4	World of Science	S Chand	Lionel Border	23
5	Environmental	Jaico	William	2
6	Complete Handyman do-it-Yourself	H.S.Stuttman	-	1
7	Paralegal s Encyclopedias Dictionary	P H	Valera Grapp,J.D	1
8	Telecommunications	MGH	Nathan J.Muller	1
9	Networking &Telecommunications	MGH	Tom sheldon	1
10	Electronic Circuits	MGH	RuldolfF.Graf,	1
11	Circuit & Troubleshooting Guide Vol:2	MGH	John D.Lenk	1
12	Circuit & Troubleshooting Guide Vol: 3	MGH	John D.Lenk	1
13	MACROM	Brady	Keith Mathews,Jay	1
14	Jaico Illustrated Encyclopedias of Technical Terms A-K	Jaico	Board of Editors	1
15	Information Tech.	Galgotias	S.Jaiswal	1

Hand Books

1	Machining and Metalworking	MGH	Ronald A.	1	
2	Mechanical Engineers	MGH	Eugene A.	1	
3	Machinery	Industrial Press	Robert E,	1	
4	Mechanical Engg	Academic (India)Publishers	SubashMetha	1	
5	Mechanical Design	TMH	Gitin M.	2	
6	Maintanance Engineering	MGH	Lindley	1	
7	Process / Industrial Instruments & Controls	MGH.	Douglas	1	
8	Quality Engineering	TMH	Thomas	1	
9	Indian Pratical Civil Engineer s	Engineer s Publishers	P.N.Khanna	2	
10	Electronics	CRC	Jerry C.Whitker	1	
11	Digital Electronics	PH	John D.Lenk	1	
12	Linear Integrated Electronics for Research	McGraw-Hill	T.D.S.Hamilton	1	
13	Semiconductors Memories	A Willey –Intrescience Pub.	Eugene R.Hnatek	1	
14	Radio and Wireless Technology	McGraw-Hill	Stan Gibilisco	1	
15	Electronics Designer s	McGraw-Hill,Inc	L.J.Giacoletto	1	
16	Electronics Engineering	G.K.	-	1	
17	Networking Handbook	Tata McGraw-Hill	E D Taylor	1	
18	Industrial Control Computers	Thomas	Wiley	1	
19	Computer Science & Engineering	G.K.	-	1	
20	The Windows NT Web Server	TMH	Tom Sheldon	1	
21	The File Formats	I T P	Gunter Born	1	
22	The Internet Publishing	Wesley	Mike Franks	1	
23	Handbook for Computer	Galgotia	SubashMetha	1	

	Engineers				
24	LAN Troubleshooting	BPB	Mark A. Miller	1	
25	Bioelectronics	McGraw-Hill	Massimo	1	
26	Electrical Engineering	G.K Publications	-	1	
27	Biomedical Instrumentation	Tata McGraw-Hill	R.S.Khandpur	1	
28	National Electrical Code	McGraw-Hill	J.F.McPartland	1	
29	Mathematical	McGraw-Hill	Murray R.Spigel	1	
30	Engineering Calculations	McGraw-Hill	Tyler G.Hicks	1	

Gate Book s

1	Mechanical Engineering	Sathyaprakasam	Handa&Handa	1	
2	Mechanical Engineering	G.K.	-		
3	Mechanical Engineering	Galgotia	Abdul Mubeen	1	
4	Mechanical Engineering	G.K.	-	1	
5	Tutor 2014	Arihant	Dinesh Nath	1	
6	Mechanical Engineering 2006 Vol:1-10	G.K	-	10	
7	ECE	G.K	-	1	
8	2011	Concept books	-	1	
9	GRE,TOFEL, GMAT	Petersons	-	10	

File Description	Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 15.29

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
19.04	2.84	19.58	17.42	17.55

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document

4.2.5 Availability of remote access to e-resources of the library**Response:** Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students**Response:** 4.48**4.2.6.1 Average number of teachers and students using library per day over last one year**

Response: 57

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure**4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

The institution provides sufficient computing facilities with necessary software. Totally 436 computers are available across various laboratories and departments for the benefit of students and faculty members as well. For virus free environment, Linux OS is used.

A separate Internet lab is available. Students can make use of it for all their educational purposes.

The college has more than 12 Wi-Fi hotspots with extenders provided to cover the wireless range throughout the college. All the computers within the campus are connected to the internet. The bandwidth of internet is upgraded to 200Mbps. The surplus Ethernet ports are provided for laptops or other devices in need of internet connectivity.

Wi-Fi Access Points were installed in the following locations.

S.No	Installed location	Number of count
1	First Floor	2
2	Second Floor	2
3	Third Floor	2
4	Boys Hostel	1
5	New Block	1
6	Others	4
	TOTAL	12

Also, the Wi-Fi access points are updated constantly during regular intervals as and when required. Wi-Fi

facility is available in the campus with 10/100 Mbps bandwidth.

Upgrade Router :

Reliance updated the router in 2014.

Airgene updated Micro Tech-HEX series Router in 2016.

Number of computers with Configuration:

S.No	Configuration	Quantity
1	Window XP HP core Duo 1GB DDR2	106
2	Window XP HP Pentium4 256DDR RAM	60
3	Window XP HP Intel Pro 512DDR RAM	40
4	Window XP HP Dualcore1GB RAM	60
5	Veriton M200-G41 processor: Intel Pentium dual-core E6600(3.06Ghz/2MB L2 cache /1066Mhz) 2GB DDR3RAM/HDD:500GB. Monitor:18.5"	60
6	DELL Optiplex 380: Intel Pentium ® Dual core CPU e5800 @ 3.20Ghz 3.20 Ghz , 2GB RAM HDD:320 Monitor:18.5".	45
7	DELL Optiplex 390: Intel core i3CPU e5800 @ 3.20Ghz 3.20 Ghz , 4GB RAM HDD:320 Monitor:18.5"	15
8	HP p2-125il Processor : Intel core i3-220T /chipset: intel H61/memory-2GB/HDD:500GB/Graphics: intel PCH integrated graphics: Monitor:HP LV1911 18.5" LCD Monitor.	45
9	Dell-vostro Laptop 2420 Intel: core i3-2328M processor[2.2GHZ] 2GB DDR3 RAM 500 GB HDD.	8
10	IBM Server X3.300M2:intel Xeon CPU ,E31103.00Ghz, 4GB RAM , HDD:3TB	3
11	IBM Server X3.300M4: Intel Xeon Quad Core 2407, 2.2Ghz 8GB RAM 2*300GBSAS HDD/RAID 1/RPS.	1

Computer-Student ratio:

Providing computers to the students in the ratio of 1:3. However, in the laboratories, for every student separate computer is provided.

Printer:

The institution has the following number of laser and inkjet printers

- Cannon LBP 2900 -4 Nos.
- HP Laser Jet Printer -5 Nos.
- HP Laser Jet P 1008-4 Nos.
- HP Laser Jet 1007 – 4 Nos.
- RISO -2Nos.

- EPSON L1300 color-1 Nos.
- EPSON L130 color-2 Nos.
- EPSON Lx300 Printer -4 Nos
- EPSON Lx300+II Printer-4 Nos
- Scanner-2 Nos.

LAN Facility

All the systems are connected with LAN with speed range of 200 Mbps.

Licensed Software

All Licensed software required for the laboratories , certification are procured and being used in the campus which includes Microsoft Campus Agreement for Windows Operating System, MATLAB, AutoCAD, ANSYS, Pro E ,CNC and ORACLE. All other open source software's continuously upgraded.

File Description	Document
Link for Additional Information	View Document

4.3.2 Student - Computer ratio

Response: 2.65

File Description	Document
Any additional information	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: 5-20 MBPS

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document
Link to photographs	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 29.05

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)

2017-18	2016-17	2015-16	2014-15	2013-14
3.55	105.11	88.39	110.04	111.43

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

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:

The General Maintenance is supervised by the Assistant Management Representative, Accounts Officer and estate officer, who in turn monitors the work of the Estate office at the next level. The estate officer is accountable to the accounts officer, who organizes the workforce, maintaining duty files containing details about their individual responsibilities, timings, leave etc. The Assistant Management Representative conducts periodic checks to ensure the efficiency / working condition of the infrastructure. Adequate in-house staff is employed to maintain hygiene, cleanliness and infrastructure meticulously on the campus so as to provide a good-natured learning environment.

The above team verifies the equipments or facilities with stock register and suggests any kind of suggestions to improve the facilities and submit the report to the Principal for further review with the concerned departments.

The Classrooms, Staffrooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by

sweepers as per scheduled time for each floor. Wash rooms and rest rooms are well maintained and also monitored on each floor by Non-teaching/Lab assistant. Dust bins are placed in every floor with the word of 'USE ME' and it is cleaned once in a day. The Green Cover of the campus is well maintained by a full time gardener.

The normal working condition of all properties/equipment /Machineries on the campus is ensured through daily maintenance, weekly maintenance, monthly maintenance and annual maintenance contracts (AMC). The AMC purview includes maintenance of A.C. Transformer, Generators, Air Conditioners, computer accessories, UPS, batteries and Water Purifiers.

The campus and Laboratory maintenance is monitored with proper verification of stock, which takes place at the end of every year by conducting annual stock auditing with the help local trained auditors.

This team looks after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing and house-keeping.

The Estate office workers look after the maintenance of rest rooms, approach roads and neatness of the entire premises. Housekeeping services are regularly executed and monitored.

Maintenance of Library Books and Records

The control of Central library books, department library books and records are maintained by Chief Librarian with their non-teaching members. The stock verification is done every year. Book preservation process is being carried out periodically. The identified damaged books will be sent for rectification.

Electrical Maintenance of Transformer, Generators, UPS, Batteries and Fire Extinguisher

Regular checkup of equipments is carried out at the end of every semester. Breakdown register is maintained in the laboratories. As per the requirement minor repairs are carried out by the lab assistants or faculty members. Monitoring electrical equipments such as Transformer, Generator, UPS, and Batteries, monthly and enter the condition/Status of equipment in Logbook. AMC contractor (belonging to equipment) will be called in case of major fault. The contractor will analyze the fault and submit its report. If the replacement of any part is necessary then the quotations will be called & purchased as per purchase procedure.

Apart from contract workers, the college has trained in - house electricians (B and C-license holder) and plumbers.

The Fire extinguishers and their functions are checked and controlled by trained staffs with AMC.

Transport Maintenance:

Issues regarding vehicle repairs or scheduled work must be approved by the Manager for Transportation Services. Manager should be alerted of problems from any repairs or maintenance issues.

Computer maintenance:

Students and faculty members are provided separate login credentials to access the internet. Access to

internet lab is provided in the lab even after college working hours. Apart from the regular lab classes, students are offered practice in programming languages by various value added courses which are undertaken in the lab. Preventive maintenance and breakdown maintenance procedure are followed so as to ensure maximum availability of the systems in the lab. Installation of antivirus and firewall ensure that the software and system is secured. A daily status check on the hardware and software condition of the machines is undertaken and the same is noted in a maintenance register. This ensures that the problem is identified and rectified at an early stage itself. Breakdown maintenance wherein the system fails due to SMPS problem or boot failure is recorded in a register. If the problem is minor, the technical support staff of the lab will rectify it. For major failures, support from vendor is taken. Periodic maintenance is done by regular cleaning of the lab spaces, software updates and antivirus updates.

System administrator Maintains Stock Register regularly to keep account of the non-functional equipment and infrastructure, like computers, printers, etc. .Maintenance and upgradation are looked after by system administrator.

Annual Maintenance Contracts (AMC) for computers used in different departments as well as those used as a central facility like the Wide Area Network (WAN), Intercom etc. are renewed regularly to ensure their good service.

File Description	Document
Link for Additional Information	View Document

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 the last five years

Response: 76.49

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
993	922	1015	1067	1196

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document
Any additional information	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 99.99

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1155	1157	1348	1542	1653

File Description	Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 100

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

2017-18	2016-17	2015-16	2014-15	2013-14
1155	1157	1348	1542	1654

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years**Response:** 97.94

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1143	1142	1323	1496	1602

File Description**Document**

Details of the students benefited by VET

[View Document](#)

Any additional information

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****Document**

Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee

[View Document](#)

Details of student grievances including sexual harassment and ragging cases

[View Document](#)

Any additional information

[View Document](#)**5.2 Student Progression****5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 75.49

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

2017-18	2016-17	2015-16	2014-15	2013-14
262	327	263	327	337

File Description	Document
Details of student placement during the last five years	View Document
Any additional information	View Document

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

Response: 5.63

5.2.2.1 Number of outgoing students progressing to higher education

Response: 20

File Description	Document
Details of student progression to higher education	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 37.29

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	4	10	7	8

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	16	17	18	17

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document
Any additional information	View Document

5.3 Student Participation and Activities

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

Response: 289

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
39	48	49	69	84

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document

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

Response:

Yes. Institute has student council.

In our institution student committees are formed in three areas. 1. Curriculum 2.Co-curriculum 3.Extra-curriculum. Our students are encouraged to contribute in as many events as possible. So they can learn to work in teams, improve their communication and develop a bonding for institution.

Association:

The following associations are functioning:

- ASCOME (Association of Computer Engineers)
- Theame (The Association of mechanical engineers)
- ELCENA (Electronics and Communication Engineering Association)
- Ascope (Association of power engineers)
- ACE (Association of Civil Engineers)

In each association students play vital role in conducting various events in their respective departments. The main events are: Inaugural function, seminar, workshop, symposium and international conference. The different committees formed in each event are Reception committee, Registration committee, Decoration committee, Editorial committee, Event management committee, Execution committee and Food committee.

Example works of Execution committees are:

- Planning the event.
- Booking the Guest and Resource person.
- Preparing press works like invitation, brochure and certificates.
- Sending brochures to other colleges.
- Receiving the papers.
- Scrutinizing and selecting the papers.
- Giving intimation.
- Conducting events and monitoring co-events.
- Distributing the prizes.
- Collecting the feedbacks.
- Giving thanks letter to the guest.
- Giving report to the media about the function along with photos.

Example works of Event managements are:

- Preparing the agenda.
- Delivering the welcome address.
- Doing compering.
- Conducting events.
- Getting feedbacks.
- Delivering vote of thanks.

Apart from technical activity, students involve in class committee. A class committee consists of students, teachers and a chair person, in which all the students of the particular class will participate. The chairman and teachers are appointed from other departments, who are not taking class for the concern students. The overall goal of the class committee is improving the teaching learning process. In this meeting the following points are discussed:

- Syllabus coverage.
- Distribution of study material.
- Teaching methodologies like mind mapping and real life examples.
- Feedback about the subjects and teachers.
- Test portion.
- Lab completion.

- Inplant training.
- Placement details.

Sports committee is formed every year for conducting various sports. Students are splited into four groups like:

- Prithivi
- Brahmos
- Trishul
- Agni
- The selected captains and vice captains of each house are actively participating and conducting annual sports successfully in the following ways:
 - Selecting the students for their respective houses.
 - Finalizing the events to be conducted.
 - Arriving and circulating the fixtures.
 - Conducting the games.
 - Preparing winners list and certificates.
 - Getting on duty for participating students in their respective departments.

Industrial visits:

Our students also organize Industrial Visits. Various activities in industrial visits are:.

- Getting permission from college.
- Finalizing the places of visit.
- List the industries to be visited.
- Preparing route map.
- Getting the permission from the industries.
- Booking the transport and accommodation.
- Organizing industrial visit.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 57.8

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
39	48	49	69	84

File Description	Document
Number of sports and cultural activities / competitions organised per year	View Document

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 non financial means during the last five years

Response:

The alumnus forms the major strength of the institution. The Alumni Association was formed in the year 2009 under the title “VRSCCE Alumni Association” with the Reg. No:9/2019. The alumni meet is conducted once in a year, where the alumni from different branches of the under graduate and post graduate programs share their views and give suggestions for the betterment of their junior students.

The alumni meet is hosted by the management generously and the alumni are honored with mementos. Such meetings are mutually beneficial for the Institution and the alumni. This provides an opportunity for the alumni to meet their friends and act as a bridge for the faculty to share their experience, knowledge and insights.

The alumni visit the institution to deliver Guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Successful entrepreneurs from the alumnus are invited to talk on their success stories at various occasions of the Institute.

The alumni also help the final year students of the various streams of engineering, business administration and computer applications to get their project placements and summer internship in their companies or to assist them get it through their reference.

They also assist the students for placement in public and private sectors and the regular alumni association meetings pave the way for the successful placements of the students.

Students are a part of the institution even after their graduation. Hence, Alumni Association has been formed and it keeps track of past students’ career growth. The passed out students are invited every year to Alumni Meet, Organized during December / January at our College Campus. They have been given facility in the college website to enroll them as member of Alumni Association of our College.

Best Alumni awards are being given away to the achievers in the Alumni Meet events. Moreover, the members of Alumni association often visit the institute and share their knowledge and experience with our staff and students. Additional knowledge and skill development activities are being carried out based on their suggestions, given during their visits.

Alumni association is proud to see many of its members serving most of the countries in the world. The Principal and the management are very glad at the outstanding performance of the alumni.

The association appreciates all the alumni who have taken their efforts by the way of sharing their knowledge with their juniors and also in various placement activities. The association and the institution are thankful to them. **Their presence in the association helps to promote personal relationship and thereby improving public relations.**

In this meet we conduct office bearers' election such as President, Vice-President, Secretary, Treasurer and Various zone representatives.

In the year 2018 we formed the various chapters like Chennai, Bangalore, Abroad (USA). Chapter meeting was conducted for all the regions we formed already. In order to strengthen our alumnus community this meeting was very helpful for that region's alumnus to exhibit their views.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: 1 Lakh - 3 Lakhs

File Description	Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 0

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	View Document
Any additional information	View Document
Report of the event	View Document

NAAC

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:

V.R.S College of Engineering & Technology was started in the year 1994 by the S.P.S Educational Trust with a philanthropic approach to provide value based technical education by continually improving the services to produce qualified and competent technologists and to create a “Centre of Global Excellence”.

The vision of the institution:

To improve the socio-economic status of the rural poor peasants by providing opportunities to them to acquire engineering and technical skills.

The mission statement of the institution:

To establish and run a technical institution with a high quality teaching and research in a rural area of poor socio-economic status and hence to make the technical education available to the underprivileged at affordable cost. This mission statement of the institution is further spelled out in the form of objectives through which it endeavors to achieve its mission.

Governing Council:

A Governing Council has been constituted as per AICTE guidelines consisting of Educationists, Administrators, Visionaries,

Academicians and Researchers.

The short term objectives of the institution are as followed:

1. Periodic updations of quality teaching methodologies to ensure skill enhancing teaching –learning processes.
2. Acquiring academic excellence by scoring highest pass percentage in the Anna University Examinations.
3. Providing career placements for all the students after imparting personality traits, technical skills and domain knowledge among the students.
4. Conducting training programs for soft skills development, value added programmes, career guidance and co-curricular events on regular basis for students career development.
5. Conducting sponsored International/National level conferences, workshops, seminars, entrepreneurship programme etc. to disseminate recent research developments in technology.

6. Signing up of MOUs with industries to enhance Institute-Industry interaction leading to in plant training, internship, innovative projects and job opportunities to the students.
7. Undertaking consultancy and sponsored research activities from research organizations, government sectors, industries and alumni.
8. Nurturing a cordial, harmonious and tripartite relationship among the management, faculty and students for their prospective growth and for establishing a congenial academic environment in the college.

The long term objectives of the institution are as followed:

1. To emerge as a globally recognized Center of Excellence in the fields of Science, Engineering and Management by research.
2. To attain the status of “Autonomy” with self-sufficiency, offering career oriented programs for self-motivated employment of rural youth and population.
3. To have collaboration with reputed global universities for exchange of students & faculty towards “Sandwich Programmes” on Technology Transfer.
4. To provide complete residential facilities for students and staff.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

The Head of the institution, as a leader plays a vital role in the governance and management of the staff members and the available resources to ensure the following:

- The Heads of the departments have freedom to allot work for the faculty.
- A strong curricular structure for effective teaching-learning process.
- Effective practice teaching sessions as per the curriculum.
- Proper utilization of the available resources.
- Availability of up-to-date information on technology and teaching methodology.
- Effective planning and implementation of innovative management practices for the benefit of the students.
- Coordinating among the academic and administrative bodies of the institution.
- Coordination between the management and staff members of the institution.

- Implementation of the co-curricular and extra-curricular activities for the development of the students.
- Welfare of the staff members.

- To support decentralization and participative management, with the leadership of the Principal, every committee will be assigned with specific tasks pertaining to the requirements of conducting college functions. Heads of the committees monitor the works. A minimum of two meetings will be held prior to the function in the presence of Principal, HODs and Committee heads.
- The committees constituted are not permanent for every year. Members are reshuffled for change of committees for different functions. This enables the members getting familiarized with any kind of activities related to any function. The conduct of functions fosters relationship and nurture unity. Regularly with the effectiveness of various bodies/cells/committees, we had successfully conducted graduation days, annual days, Alumni Association function etc.,
- Generally for Department functions, committees are framed by Head of the department itself and announced it through circular or during department staff meeting.

Case Study:

- The following is the minutes of the meeting held for the successful conduct of 20th Graduation Day on 02.08.2018 for the conveners of all committees. The duties and responsibilities were discussed with the committee heads and preparatory works are insisted for successful conduction of graduation day.
- The minutes of meeting and the team of committees with the members are circulated to all the department faculty members and insisted the committee members to contact their respective conveners for their duties and responsibilities.
- The committee heads also contact their members at once and convey their individual responsibilities and monitor the work progress.
- The University rank holders are awarded with Gold, Silver medals and prizes with the recommendation of the respective committee.

Details of Program:

- Chief Guest – Member secretary, Tamilnadu state council for science and Technology, Chennai.
- Buses will be available from Thiruvandarkoil ,cuddalore ,Neyveli, Viruddhachalam and Villupuram from 12.15 p.m. onwards.
- Reporting Time – 1.30 p.m., Registration Desk will be open from

1.30 p.m. to 2.30 p.m.

- Event will be started from 2.30 p.m.

The list of committees were successfully executed the tasks as discussed in the minutes of the meeting held on 02.08.2018

- Media and publicity committee
- Reception
- Registration
- Feast arrangement and general services
- Seating arrangement
- Decoration
- Compering and Invocation
- Transport arrangement
- Security arrangement
- Prizes and certificates
- Power and PA system

File Description	Document
Link for Additional Information	View Document

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The Governing council monitors the performance and the progress of the institute to ensure the fulfillment of the objectives. To ensure consistency in academic excellence, upgradation of facilities in needed spheres is the standard agenda in the council meetings. Resolutions are made as per requirements and they are implemented to enrich teaching - learning process in a broader perspective.

The institution had a humble beginning with one main block and year after year the institution is witnessing upward journey in creating and expanding infrastructure facilities. The quality of student's experience is our main priority.

We seek to ensure that our students benefit from a high quality learning environment that includes spacious classrooms, well-equipped laboratories, state-of-the-art computing facilities, rich and diverse knowledge resource centers, smart class rooms, seminar halls, auditoriums, first class sporting facilities with indoor and outdoor complexes, rehearsal halls for cultural activities, feel at home hostel accommodation facilities and extensive facilities for on-campus training and placement.

The short term objectives of the institution are as followed:

1. Periodic updations of quality teaching methodologies to ensure skill enhancing teaching –learning processes.
2. Acquiring academic excellence by scoring highest pass percentage in the Anna University Examinations.
3. Providing career placements for all the students after imparting personality traits, technical skills and domain knowledge among the students.
4. Conducting training programs for soft skills development, value added programmes, career guidance and co-curricular events on regular basis for students career development.
5. Conducting sponsored International/National level conferences, workshops, seminars, entrepreneurship programme etc. to disseminate recent research developments in technology.
6. Signing up of MOUs with industries to enhance Institute-Industry interaction leading to in plant training, internship, innovative projects and job opportunities to the students.
7. Undertaking consultancy and sponsored research activities from research organizations, government sectors, industries and alumni.
8. Nurturing a cordial, harmonious and tripartite relationship among the management, faculty and students for their prospective growth and for establishing a congenial academic environment in the college.

The long term objectives of the institution are as followed:

1. To emerge as a globally recognized Center of Excellence in the fields of Science, Engineering and Management by research.
2. To attain the status of “Autonomy” with self-sufficiency, offering career oriented programs for self-motivated employment of rural youth and population.
3. To have collaboration with reputed global universities for exchange of students & faculty towards “Sandwich Programmes” on Technology Transfer.
4. To provide complete residential facilities for students and staff.

Activity: Placement

Based on short term and long term goals, the governing council and IQAC have enhanced the student placement remarkably in the last five years by implementing the following perspective strategies.

- Conducting soft skills programs
- Introducing language labs
- Adding bridge courses
- Conducting domain oriented add on courses
- Mini and major projects contests
- Conducting conferences and symposiums

- Encouraging Industrial projects, internship, In-plant training & Industrial visits
- Career counseling
- Personal counseling
- Yoga and meditation

File Description	Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

- Governing body and functions of various list Governing Senate and all other Academic and Administrative bodies, their memberships, functions and responsibilities, relation of members of such bodies with the principal owner of the college.

Governing council

Sl. No.	Name of the Members	Designation
1	Tmt. VijayaMuthuvannan	Chairperson
2	Thiru.S.R.Ramanathan	Secretary & Correspondent
3	Thiru. N. Muthuvannan	Director-Board of Governors
4	Er. M. Saravanan	Chief Executive Officer
5	AICTE Nominee Southern Regional Officer	Ex-Officio
6	University Nominee	To be nominated
7	Dr.V.Kumar, M.E., Ph.D., State Government	Ex-Officio

	Nominee-CTE	
8	Dr. Murugesan, Ph.D.	Member
9	Dr. N. Alagumurthi, M.Tech., Ph.D.	Member
10	Prof. P. Karunanithi, M.Tech.,	Member
11	Mr. J. Joseph Ignatious, M.E.,	Member
12	Dr. N. Anbazhaghan, M.E., Ph.D.	Member/Secretary

Administrative setup

The administrative set up of the college has been formulated and its governance is derived as the combined effort of the Management, Principal and Staff. The responsibility flows from the Management to the Principal. The Principal administrates the academic developments and monitors overall developments through HoDs and faculty.

College Council

The academic activity of the institution is supervised by the college council to which the Principal is the Chairman, Chief Executive Officer is the Vice-Chairman and others are members. The Council meets frequently to discuss about the academic performance and to take decisions on critical academic matters. The minutes of the meetings is forwarded to the Management. The salient points of the Academic council are made as agenda for the Governing Council.

Defined rules, Procedures, Recruitment and Promotional Policies List of the published rules, policies and procedures, year of publications, awareness among the Employees/students, availability on web etc.

The AICTE and Anna University norms are followed in the college administration, student admission, staff recruitment, promotion, salary etc. The rules and regulations of the college are published in the college calendar, which has been annexed.

- The HoDs monitors the maintenance of academic infrastructure and other facilities of their respective departments.
- Faculty members are the laboratory in-charges and they maintain the proper functioning of the lab equipment and accessories with the help of lab technicians.
- Procurement of equipment and consumables are put up by the lab-in-charges through HoDs to the Principal.
- The non-teaching staff members ensure the proper functioning and maintenance of the infrastructure facilities in the class rooms like green boards, desk benches, LCD projectors, computer systems and

other teaching aids.

- The computers and their accessories are taken care of by a separate hardware/software trained personnel and periodic upgradation with the required software is carried out for the betterment of the students.
- Routine cleaning of water tanks, coolers, etc., are carried out under the guidance of estate officer, who reports to the administrative officer.
- The day-to-day cleanliness of the campus and Library are maintained by the Estate officer, who reports to the Administrative officer.
- The Physical Director maintains the quality of the play-fields with the assistants provided for him.

A Complaint Register is maintained at Administrative Office for immediate rectification.

File Description	Document
Any additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

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

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Details of implementation of e-governance in areas of operation Planning and Development, Administration etc	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

With the leadership of the Principal, to ensure effective and smooth functioning of college activities, various committees are formed. The duties and responsibilities of each committee are well defined and every year, they are explained / reiterated to remind their commitments.

- Students Welfare and Disciplinary Action committee
- Academic Monitoring and student counseling
- QMS Implementation committee
- Accreditation Activities committee
- Economically weaker section cell
- Training and Placement cell
- Career Guidance Bureau
- Alumni Association
- Entrepreneurship Development cell
- Library & Co-curricular Activities
- Sports and Games committee
- ISTE Faculty chapter
- Driving club
- NSS Activities
- Youth Red cross society & Red Ribbon club
- Media, Printing & Publication committee
- Canteen Committee
- Research and Development committee
- Anti ragging committee
- Women Grievance and Addressable committee
- Right to information cell
- Staff Grievances Redressal & Disciplinary committee
- Website Development & Maintenance Committee
- Internal Quality Assurance Cell

• **CASE STUDY : ECONOMICALLY WEAKER SECTION CELL**

- Every year students are getting these scholarships through this cell of our college operated by the management. This scholarship is given to the students from the additional income, in terms of rent from BSNL Tower, operating inside the college premises alongwith Aircel which already exists, has been effectively utilized.
- The following is the minutes of the meeting held for the successful conduct of Economically weaker section cell on 09.03.2017 for the academic year 2016-2017. The economically weaker section committee members of all departments are invited and the meeting is conducted by Economically weaker section convener Mr. E. Velmurugan.
- The minutes of meeting conducted for the committee members to convey the eligibility for the selection of students for providing fund. The duties and responsibilities are also discussed.
- The committee members informed about the economically weaker section scholarship in individual classes of their department and insisted the interested students to submit the application form.
- The second minutes of meeting conducted on 21.03.2017 for the final approval of the candidates. The points discussed are

- Selection of two students from all classes in their department
- Selection process is irrespective of community and it is purely based on the family economic background and academic skills of individual student.
- The selection process started from class counselor, class advisor and Head of the department.
- The application form should be attached with previous semester mark sheets and income certificates for proof verification. The evidences are verified by the class advisor.
- The eligible students are shortlisted by the committee member and Head of the department.
- After the approval of Head of the department, the shortlisted student list from each department is forwarded to the convener.
- Finally the overall consolidated selection list of economically weaker section students is submitted to the Principal.
- The number of beneficiaries are more or less 33 students and this scholarship of Rs. 3000/- is being given in Annual Day function

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

- To ensure the comfort travel of all the teaching staff, VRSCET provides free transportation.
- Highest pass percentage producing faculty member in each section shall be appreciated with gold ring worth Rs.7000/-.
- Highest percentage between current and previous semester results giving head of the department shall be appreciated with gold ring worth Rs.7000/- and progressive result producing head of the department shall be appreciated with gold ring worth Rs.7000/-
- Faculty members who have published papers in reputed National and International journals shall be awarded with cash prize of Rs.2500/- and Rs.5000/- respectively.
- All Faculty members shall be assigned with five students, who have single to five arrears respectively for mentoring and motivating them to clear all their arrear and regular papers in single attempt in University Examinations. By continuous monitoring, if a staff member makes all five students pass, then he/she shall be awarded Rs.2500/- and if four students pass, then he/she shall be awarded Rs.2000/-.
- The College shall contribute 12% of the pay subject to the ceiling of Rs 1800 per person, towards the Employer's contribution to the EPF Scheme.
- Marriage gifts and mementoes with the sanction of 10 days leave.
- Gifts to teaching staffs' on their birthday.
- Faculty members those who are attending workshop, conference and FDPs are sponsored by the institution.

- Additional increment is given if the Faculty member clears UGC-NET or gets Ph.D. awarded.
- Group insurance scheme for teaching staff.
- Special study leave to pursue higher studies.
- 45 days vacation leave is given to the teaching staff.
- 22 days On-Duty is given per year to attend valuation, exam duty, workshop, conference and Faculty Development Programs.
- The teaching staff shall be eligible for 1 day of Casual leave with pay every month.
- All women members of staff are given maternity leave for a period of three months with salary.
- Biometric Attendance system is implemented for all the teaching faculty members.
- Parking facilities for teaching staff.
- All the employees of the Institution are provided with interest free loan facility once in a year.
- Free transportation facilities

Welfare measures for nonteaching staff

- To ensure the comfort travel of all the non-teaching staff, VRSCET provides free transportation.
- Marriage gifts and mementoes with the sanction of 10 days leave.
- Special study leave to pursue higher studies.
- Incentive for attending orientation program, workshops and conferences.
- Dress materials for housekeeping staff.
- Group Insurance scheme for non teaching staff.
- 10 days vacation leave for nonteaching faculty members.
- The non teaching staff shall be eligible for 1 day of Casual leave with pay every month.
- All women members of nonteaching staff are given maternity leave for a period of three months with salary.
- Biometric Attendance system is implemented for all the non teaching faculty members.
- Parking facilities for nonteaching staff.
- Free transportation facilities

File Description	Document
Link for Additional Information	View Document

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: 43.39

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

2017-18	2016-17	2015-16	2014-15	2013-14
2	4	20	128	126

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	View Document
Any additional information	View Document

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

Response: 19.2

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

2017-18	2016-17	2015-16	2014-15	2013-14
15	12	13	24	32

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 63.12

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
43	56	131	51	124

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers).	View Document
IQAC report summary	View Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

Our college is practicing appraisal for both teaching and non teaching staff members. It is self assessing in nature. Staff can assess their mark even on their own.

Our management evaluates the performance of the faculty based on teaching, research, participation in teamwork, arranging co curricular and extracurricular activities and publication works with the help of appraisal form. The appraisal system motivates the staff to excel and put forth the best of their efforts.

The following factors are deeply analyzed in the appraisal system for teaching staff:

- Academic Performance.
- Personal Development.
- Skill upgradation through participation in Conferences, and Workshops.
- Technical Paper presented.
- Book published.
- Invited for guest lectures.
- Department development as Staff.
- Department development as student counselor.
- Number of industrial student projects done.
- Number of innovative students' project applied for funds.
- Students' projects won in the contest.
- Number of funded seminars conducted as individual.
- Number of funded seminars workshop as individual.
- Number of paper presented counseling students in colleges.
- Number of paper published counseling students in journals.
- Participation in professional body activities by counseling students.
- Any awards received by counseling students.
- Participation in professional body activities by staff.
- Any awards received by counseling staff.
- Number students attended in plant training.
- Number students received cash prize for publishing paper.
- Staff received cash prize for producing 100% result in University examination.
- Placement contribution by staff.

- Feedback from HOD.
- Feedback from Principal.

The following factors are deeply analyzed in the appraisal system for non-teaching staff:

- Department activities like daily routine, file handling.
- Attending staff members and Head of the Department.
- Laboratory activities like opening and closing and maintaining devices and components.
- College activities like doing assistance in college day and graduation day.
- Feedback from Head of the Department.
- Feedback from Principal.
- Active participation in team work.
- Circulating the circular.
- Assisting the teacher to set LCD Projector in the class room for taking smart class.
- Cleaning and maintaining activities of laboratories.

Our appraisal form contains the following criteria:

- Academic performance (40 marks)
 - Student counseling (4 marks)
 - Team effort in producing result (20 marks)
 - Seminar / conference attended (3 marks)
 - Technical paper presented / book published (3marks)
 - Industrial projects(2 marks)
 - Funded seminars(2 marks)
 - Professional body activities(6 marks)
 - In plant training(2 marks)
 - Getting project funds (3 marks)
 - Placement Assistant (5 marks)
 - HOD Evaluation (5 marks)
 - Principal Evaluation (5 marks)
- Our college appraisal assist's in recognizing and encouraging good performance teachers.
 - It provides constructive feedback to the individual teachers for help them to improve their carrier.
 - It assists teacher in identifying their potential areas and ways for improvement, so as to raise their professional standard and improve their team spirit, which support the overall development of the college.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Internal and External auditing based on ISO 9001: 2008 framework.

External auditors examined and certified the balance sheet, the income and expenditure or profit and loss account for the every year, attached here with of S.P.S. EDUCATIONAL TRUST AAGTS9197J. The agreement with the books of account maintained by the head office at ARASUR TAMILNADU and branches.

The Trust is registered u/s.12AA(b) of the Income Tax act 1961 before commissioner of Income Tax Pondicherry vide his order in C.No.9165E(1019)/CIT/PDY/2008-09

The Trust is got approval from the chief commissioner of Income Tax – VI, Chennai u/s.10(23)(c)(vi) of Income Tax Act 1961 vide his order No.F.No.HQ 30(19)/07-08 dated 25.03.09

Institute carries out internal and external audit of funds provided by various funding agencies on regular basis. A utilization certificate is thereby provided.

External audit is done during the month of December and Internal audit is done during the month of June every year.

Internal Audit is performed by officials deputed from Trust office and the reports are obtained before conduct of the external audit. External Audit is done by the Statutory Auditors during the December month of the subsequent year. The copy of the Internal audit report covering all matters related to maintenance of accounts is preserved.

Subsequently, External Statutory Audit is conducted by the auditors and the final audit report with audit findings are submitted to the Management. The consolidation of the findings will be submitted through e-filing and to other relevant authorities concerned.

In the beginning of every academic year, the budget is prepared by various departments in the prescribed format as per the circular issued by the Principal.

Budget for the departments is prepared by concerned HODs, in consultation with the department laboratory in-charges.

The departmental budgets are discussed by the Principal at HODs meeting and then sent to the management for approval. While preparing the institutional budget, a provision is made for salaries, allowances, administrative and maintenance expenses. There are well-defined policies and mechanism for implementing the budget effectively.

File Description	Document
Link for Additional Information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the

last five years (not covered in Criterion III) (INR in Lakhs)**Response:** 0

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description**Document**

Details of Funds / Grants received from non-government bodies during the last five years

[View Document](#)**6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources****Response:**

The Institute has a well-defined procedure for efficient utilization of available resources for infrastructure development and teaching learning process. The financial resolutions of the institute is recommended and approved by Governing council. All the financial transactions are monitored by the accounts office. In addition to this, the accounts of each financial year of the institute are audited by Chartered Accountant. Thus the utilization of financial resources is monitored at several levels.

Philosophy of Governance

VRSCET (V. R. S. College of Engineering & Technology) is an educational organization established to provide a high quality teaching and research in a rural area of poor socio-economic status and hence to make the technical education available at affordable cost to the underprivileged and the focal point of governance is the students. The philosophy of VRSCET is to provide active participation and involvement of staff concerned in formulating strategies, policies and reviewing the performance of the institute. The hierarchy is complimentary rather than competitive.

Board of Governors

As an organization, the Trust/Society is committed to the accomplishment of the goal to develop excellence in the technical and higher education ensuring highest quality of faculty, resources and

Infrastructure reinforced with innovations and research on the latest development in education and technologies. Therefore the Board of Governors of the Society is a fine blend of Educationists, Visionaries, Academicians, Researchers, Scientists and Educational Administrators.

The financial resources of the college are managed in a very effective and foolproof manner. There is a

fully-computerized accounts department in the college. Double entry system is followed to maintain the accounts of the college.

The following three types of accounts are created:

- Receipts & Payment Accounts.
- Income & Expenditure Accounts
- Balance Sheets

Every transaction is supported by the vouchers. All the collections are deposited in the bank and all expenditure, recurring and non-recurring transactions, are incurred through online and cheques. Only duly authorized persons can operate the transactions through the bank. For effective check on the accounts the two-tier system is followed; the internal and the external audit. Internal audit is done perpetually. The external audit is done by the Chartered Accountant before the session comes to an end. For efficient use of the financial resources, budget is prepared. There are three types of payments/expenditures: recurring, non-recurring (Provident fund & gratuity etc.) and capital expenditure. Separate budget is allocated to enable the institution for efficient use of the financial resources.

The major sources of the institutional fund are as follows:

- Total fee collected from the students.
- Seminar Grants received from the affiliating university.
- Conference grants received from various funding agencies.

Various steps are taken by the institute to generate additional funds.

The college seeks the contributions of the IEEE, TNSCST, ICMR and ISTE funds to conduct seminar, workshop and conferences.

File Description	Document
Link for Additional Information	View Document

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

Response:

IQAC, within the existing academic and administrative system, the institution has developed mechanisms of its own, for quality assurance based on the purview of ISO, NAAC, NBA and AICTE. The academic quality of the institution is evaluated on the basis of the performance of the students in their examinations. The teachers also judge the students' academic abilities by way of oral and written tests. The poor students are helped by the teachers to improve their academic quality by taking extra classes and providing books. The administrative system also looks after the quality education in the institution. The different

committees, set up by the institution are always aware of the administrative needs. The Advisory Board, the Examination Committee, the Magazine Committee are all constituted and are well equipped for the quality assurance of the institution's administration. The academic and administrative systems in the institution have been quite effective for the enhancement of quality education. The institution has fool-proof mechanism to get the academic and administrative machinery of the institution in motion. The academic quality of the institution is maintained by the teaching and learning processes. The administrative quality is maintained by the effective functions of the various committees. The two mechanisms are interdependent and, therefore, there is no scope for any failure in any system. The college undertakes wide-spread cross-curricular enrichment activities through NSS, RRC, and YRC etc. NGOs and other forms of community development activities.

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing many quality assurance strategies and processes. For example the following two best practices are institutionalized by IQAC.

Best Practice – I : Activity Based Teaching Methods

Faculties are encouraged to take classes based on Wipro Mission - 10X teaching learning methods as all the faculties trained by Wipro Mission – 10X team on innovative teaching methods. The faculties will be preparing lesson plan mentioning the activity details for each session. The main activity includes quiz, analogy, summarization, debate, Collaborative Virtual Classrooms, Mind mapping, Brainstorming, Role Playing and Case Study etc. This method ensures active participation of students and students learning outcomes are satisfactory. The students able to perform well in the Anna University examinations as well as placement interviews.

Best Practice – II : Students Placement

We help /guide the students to know their own field of specialization or career domain by conducting interactive career guidance programmes. Further, each department organizes add on skill development programmes, Vocational Educational Training, Certificate Programs, symposiums, conferences, seminars, workshops, mini and major project contests to improve their knowledge in their respective domains and to transform them as industry ready professionals.

To establish healthy Industry-Institute partnership for providing In-plant training, Industrial visits, internship Placement Opportunities to students, it is signing Memorandum of Understanding with many Industries.

In addition to the above career counseling and personal counseling is given to each students by the respective counselor. These practices has been significantly improved the number of placements in Tier-1, Tier-2 and Tier – 3 companies in the last five years.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response:

The academic calendar is published in the College prospectus and college website before the beginning of the session of every academic year. It provides plan for the academic year to the students, teachers and the Head of the departments. The teaching learning process is continuously monitored and reviewed along with IQAC by the Head of the Departments and reported to the Principal and the management. All the departments are conducting CA tests, Remedial tests and Model examinations every academic year. The departments are also carried out internal assessment based on the test performance of student, their attendance and Practical records submission.

Apart from the regular class room lectures by the faculty members for each course, students are given opportunities to attend the guest lecture from industrial experts. The contents of this type of lecture are beyond the syllabus and they expose the industry requirement to the students. This lecture facilitates the students to know in depth about the industry requirement and the necessary skills they should equip with for placement. The interactions with industrial experts narrow down the gap between the institute and the industry requirement which helps the management in identifying the necessary soft skill development required for the students.

All the departments with the support of IQAC conduct miniproject contest, International Conference, Internal paper presentation contest to enrich their knowledge by reviewing through external judges. IQAC cell supports to conduct more add-on courses in every year to get practical knowledge in the respective domains. Every semester Skill development programme is conducted for all the departments to enrich the student knowledge. With the help of IQAC, NPTEL videos were collected by all the departments to do needful for the students. IQAC cell monitors implementation and continuous improvement of innovations in Curriculum, Co-curricular and Extra-curricular activities of the institution. Periodical meetings are conducted, suggestions are given towards improvement. The following aspects are formed with the guidelines of IQAC,

Case (i) – Skill Development Programme

With the guidelines of IQAC cell, Skill development programme is conducted in all departments which includes Soft Skill training, Communication skill, Aptitude training, Mini and major project contest, Add on programs, Certificate programs, Vocational Education Training etc., the respective Head of the Department along with the IQAC cell is continuously reviewing the events by collecting feedback from the students. The teaching faculties are helpful to provide training to the students for successive conduction of the programme. The students yield practical knowledge and good communication skill by attending the programme. Apart from programmes on technical skills, programmes on life skills such as time management, stress management, yoga and meditation are organized. All these skills makes every student is employable with their chosen domain of interest. Regular practice of skill development has given an edge to the students in getting placement with leading companies. We have case studies where many students were trained from first year to final year, career and personal counseled and achieved their career goals.

The Entrepreneurship Development Cell organizes Entrepreneurship Development programs such as entrepreneurship awareness programme, Entrepreneurship in civil, mechanical, electrical, electronics

&communication and computer science engineering. These programmes has motivated and created many successful entrepreneurs

Case (ii)- Course Committee and Class committee

IQAC is recommended to form Course Committee and Class committee meeting which helps to review the progress of course completion, effective teaching learning etc., The course committee members should present to the meeting their own evaluations of data and plans for development, improvement and enhancement. The committee reviews these, providing useful feedback and making suggestions.

The course committee is formed for common subjects with respect to all departments. The details of course committee members and meeting schedule is prepared by the Principal and circulated to all the heads of the departments. The course committee is scheduled before the CA (Continuous Assessment). During the course committee the major points like completion of portion, selection of questions based on university questions, pattern of questions, previous continuous test pass percentage before and after remedial are discussed and the minutes are approved by the course committee chairman, Head of the Department and the Principal. The course committee helps in improving the pass percentage in University examination by focusing on major portions and questions in the subject

The class committee is formed for every class The details of class committee members and meeting schedule is prepared by the Principal and circulated to all the heads of the departments. The class committee is scheduled before the CA (Continuous Assessment). During the class committee the major points like completion of portion, any grievances regarding teaching methods, teaching materials, use of mind maps etc., are discussed and the minutes are approved by the class committee chairman, Head of the Department and the Principal. During the class committee the students are given freedom to express their difficulties in academic and general grievances. The grievances are rectified at the earliest and students are able to pass and score better marks in Continuous Assessment tests, Model and University examination

In addition to that, IQAC analyses the feedback received from all students and faculties and inform the concerned heads about its outcome for correction measures. It also encourages and provides support required by all staff for their quality improvement in teaching, Research and Development.

File Description	Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 9.2

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	11	9	12	9

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
Any additional information	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: D. Any 1 of the above

File Description	Document
e-copies of the accreditations and certifications	View Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document
Annual reports of institution	View Document

6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

Response:

Based on NAAC Cycle-1 Peer Team Report, Recommendations for Quality Enhancement of the Institution is listed out below:

- ***Induct faculty with Ph.D qualifications***

Management supporting and motivating the Faculties to register and complete their research work. The number of faculties registered and completed their research work have been increased comparatively from 2014 to 2018.

- ***Provide seed grant and professional allowances to faculty***

Management has started to provide allowances to the faculties for attending workshop, seminar, conferences and other programmes etc., like travelling allowances, a part of registration fee.

- ***Enhance the quality of hostel, mess and canteen facilities***

RO plant facilities to provide purified water across the hostel campus.

In Hostel mess and canteen, students are provided with Nutritious and healthy food.

Management strictly prohibits beverages like Pepsi, Coke, etc., in college canteen.

Canteen shed with service/maintenance facilities.

Management strictly avoids usage of plastic covers inside the college campus.

- ***Efforts should be made to support local region through consultancy, testing and training activities***

Efforts should be made to support local region through conducting awareness programmes in technical and non-technical topics.

- ***Use of IT support through MIS, ERP etc to be initiated***

Palpap Software implemented in 2013 to support Planning and Development, Administration, Examination, Finance and Accounts, Student Admission and Support by the Palpap Ichinichi Software International Limited. Also Campus Interaction online test conducted for every student to enhance their technical knowledge, communication skills and aptitude skills etc.,

- ***Innovation and entrepreneurship to be promoted more aggressively***

EDC Cell conducted various awareness and motivational programmes to motivate the students in innovation and entrepreneurship activities. Various students with the guidance of faculties received funds from government bodies like TNSCST and participated in project expo like Science City, TNSCST students project scheme etc.,

- ***Diversity and heterogeneity be promoted through faculty recruitment and student admission***

Diversity and heterogeneity be promoted through faculty recruitment and student admission based on Anna University and AICTE norms.

- *Students to be exposed to better quality of experimentation by providing hands on experience on high end equipment*

IQAC cell supports to conduct more add-on courses in every year to get practical knowledge in the respective domains. Every semester, Skill development programmes are conducted for all the departments to enrich the students' knowledge.

- *Internal quality mechanisms to be developed and strengthened*

With the guidelines of IQAC cell, Skill development programme is conducted in all departments which includes Soft Skill training, Communication skill, Aptitude training, Mini and major project etc. The respective Head of the Department along with the IQAC cell is continuously reviewing the events by collecting feedback from the students and taking corrective measures. IQAC is recommended to form Course Committee and Class committee meetings. The course committee and Class Committee helps to review the progress of course completion, effective teaching and plans for the development of student progress. The committee reviews these recommendations for providing useful feedback and making suggestions.

- *Library resources to be augmented through subscription to e-books, international journals etc.*

The Library resources have been increased through subscription to e-books, international journals etc.

Improvements in academic activities during the last five years:

- Students Contribution in the external world had been improved every year.

YEAR	WINNERS	PARTICIPATION
2013-14	23	327
2014-15	59	356
2015-16	31	166
2016-17	34	157
2017-18	108	308

- To motivate and encourage the students participation in external activities, Management supports the prize winning students in each department by giving 50% of prize amount to them.
- Technical events organized by each department had been improved.

Year	Seminar / Guest Lecture	Symposium	Workshop/FDP
2013-14	14	6	7
2014-15	7	6	4
2015-16	7	6	3
2016-17	6	5	5
2017-18	6	5	1

- Rank holders are motivated through gold medal and silver medal in annual day celebration. Students are encouraged to get University ranks.
- In each department, Memorandum of Understanding is signed with the various companies to provide Inplant Trainings, Industrial Visits, Internships, Projects and Placement Opportunities to the students.
- Economically weaker students get continuous support from management through scholarship.
- Students are encouraged to participate in sports activities in Anna University Zonal Sports, Cricket tournament etc.,
- Mr.A.Suriya Prakash of Department of Civil Engineering, who has been selected to represent Anna University, Chennai Kho – Kho Team (Men) for the South Zone Inter – University Competition for the past 2 consecutive years.
- Faculty Contribution in the external world had been improved every year.

Year	Conference Participation [Title count]	Workshop/Seminar Participation [Staff count]	FDP Participation [Staff count]	Paper Presentation [Title count]	Publication [Papers/Books] [Title count]	Guest [Staff count]	Guest [Title count]
2013-14	9	84	99	27	26	-	-
2014-15	2	48	23	35	43	8	11
2015-16	10	96	42	8	48	4	5
2016-17	5	48	17	15	21	6	4
2017-18	-	40	19	13	13	4	8

Year	No. of Annexure Papers	No. of Journals with Impact factor							No. of Journals without Impact factor
		0 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 6	6 - 7	
July 14 – April 15	17	30	2	0	8	0	0	0	11
July 15 – April 16	9	23	5	11	0	1	4	0	4
July 16 – April 17	7	0	0	5	4	5	2	0	10
July 17 –	1	5	0	1	0	1	2	2	1

April 18									
----------	--	--	--	--	--	--	--	--	--

- Faculties are encouraged and getting continuous support from management to register and to complete their research work.
- Faculties those who are achieving 100% results in Anna University Examinations are motivated by management through a gold ring worth Rs.7000/-.
- Faculties are continuously monitoring the students through their attendance, continuous assessment tests, practice tests, model theory and practical examination with a check list in each topics.
- Management provides and supports resources for the smooth conduction of training for teachers during ICT programme.
- Every year recruitment of students for various companies gradually increasing.

File Description	Document
Any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 12

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	3	3	3	2

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

The institution aims to groom the students to be self-reliant, specialists in their chosen discipline, continuous learners, effective communicators, respect to different cultures, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, women safety and security and environmental consciousness. One of the objectives of this institution is to promote education that would be sensitive to the needs of the various sections of society with special emphasis on gender equality and gender sensitivity. Students of both the genders are given equal opportunities to grow and develop into able, responsible citizens of the future.

Women Grievances and Redressal committee is functioning inside the college premises .It convenes meeting twice in a semester to know the grievances of the girl students. It plays a proactive role in sensitizing young minds towards gender issues by involving them in various activities. Women Grievance and Redressal committee conducts events like interactive talks and lectures on sensitive and critical gender issues like social malpractices, equality of sexes, women safety, health, promoting women entrepreneurs, gender bias, self-defence, leadership quality for girls etc. Women Grievance cell activities are planned, organized, and executed by girl students representing all the departments with the guidance of the faculty.

It can be stated with due pride that in the institution the incidents of sexual harassment of women students are nil due to the discipline in the campus.

College is following an open and transparent system of recruitment, purely based on merit for both male and female staff. College makes efforts to maintain gender balance among the faculty members. Female teaching and non-teaching faculty are more in number than the other gender. Similarly, the numbers of women in the administrative and housekeeping departments are high. The selection is carried out through an open advertisement, followed by presentation and personal interview respectively. The campus is proved to be very secure due to its well-maintained security system. Separate boys and girls hostels with good security are available.

Every year there is a celebration of women's day celebration. A complaint box has been installed on the premises of the college to ensure redressal of grievances. Faculty counselors are always available to counsel the girl students. The girl students are assured of their well-being, safety, security and mental health and are encouraged to approach any faculty or Women Grievance cell for their grievances. Our counseling system provides support to the girls and enables them to understand and resolve their problems.

The management is very concerned about health and security and thus provided with a van to attend any kind of emergency 24/7. Sick room for girl students is available with required facilities. A lady nursing assistant is in place to offer medical care for minor issues and first aid.

Separate common rooms for both boys and girls are also available

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 2.91

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 5475

7.1.3.2 Total annual power requirement (in KWH)

Response: 188304

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 20.71

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 39000

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 188304

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

Response:

Solid Waste Management

The primary goal of solid waste management is reducing and eliminating adverse impacts of waste materials on human health and environment to support economic development and superior quality of life. The total solid waste collected in the campus is 30 Kg/day on an average, from tree droppings, cups, paper etc. The waste is segregated at source by providing separate dustbins for Bio-degradable and Plastic waste. Single sided used papers are reused for writing and printing in all departments. Less plastic waste (average 0.1Kg/day) is generated by few departments, office, etc., it is collected and given to the vendor on a regular basis. Metal and wooden waste is stored and given to authorized scrap agents for further processing. The construction materials such as bricks, fine and coarse aggregate, concrete specimen, etc., after being tested in the laboratory is reused inside the campus for pathway purposes. The food waste collected from the canteen is converted as organic manure inside the campus. This is done on daily basis through landfill method. We generate several pounds of solid waste per consumer, in our institution. These solid wastes are

disposed properly so that they don't heap up on the roads. This prevents the foul smell and prevents the breeding of various types of insects and infectious organisms. Such type of preventive measures and proper maintenance gives an aesthetic look inside the campus. These activities are followed on regular basis through proper cleaning and disposal methods.

Liquid Waste Management

The collected wastewater is recycled by the process of aeration and also with the help of reeds (types of tall grass like *Phragmites australis*, *Arundonax*, reed mace and *Ammophila arenaria*). Reed beds are aquatic plant which allows bacteria to digest the sewage and clean the water. There are two basic types of reed bed - vertical flow and horizontal flow. On combining both the process it gives better results and as such it is been followed. And also we use banana farms which suck and purify waste water. Water treated by this method is reused for irrigation system.

E-Waste Management

Electronic equipments contain many hazardous metallic contaminants, resulting in a variety of health hazards due to environmental contamination. E-waste from labs is properly collected and is given to the licensed recycler, reused wherever possible, donated and sold if possible. The old computers are also exchanged with new computer.

Non-working computers, monitors, and printers are discarded and scrapped on a systematic basis. Some parts which are useful for other systems are kept aside for future use.

Waste management has been done with proper care which made our institution cleaner and healthier. Now, our environment is been protected from less methane and carbon monoxide in the air. Waste recycling has reduced the existing landfills and incinerations, helping to create a greener and cleaner environment for all. We have taken efforts on making a legitimate difference in the campus around us by recycling our waste and following eco-friendly practices.

File Description	Document
Link for Additional Information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Utilization in the campus

There is a great demand for water in the institution for laboratories (use in experiments), drinking facilities, cleaning purposes, for horticulture purpose etc. Water is used for drinking purposes, canteen, toilets, laboratory, and gardening. The institute ensures that the water wastage is minimized at an optimal level and the leaky taps and pipes are under regular check and hence no loss of water is observed, neither by any leakages nor by overflow from overhead tanks. On an average, the total use of water in the college is

around 20,000 L/day on an average, which includes 5,000 L/day for domestic purposes, 10,000 L/day for gardening and 5,000 L/day for different laboratories. And also a vast playground nearly 25,650 m² serves as a source of collecting rain water which accordingly increases the ground water level. This in turn has increased the cultivation of surrounding villages. The water is treated in reverse osmosis (RO) plant which has a capacity of 250 lt/hr. Gardens are watered using sprinkler irrigation system to save water. Sprinkler irrigation is a type of pressurized irrigation that consists of applying water to the soil surface using mechanical and hydraulic devices that simulate natural rainfall. The college has implemented rainwater harvesting (RWH) within its campus for storing and reuse purpose.

Rainwater Harvesting Structures

Our institution has initiated and executed the rooftop rainwater harvesting in all the campus buildings including hostels and guest house. Rain water is collected from rooftops of buildings from existing down takes, connected to a common header and led to a trickling sand filter. The filtered water is then used for domestic purposes. Rainwater harvesting is also done by diverting storm water drains and run-off from rooftops to bore wells to recharge them. For this, a pond of size 81m x 48m x 1.3m exists in which the storm water drains and roof top rain water are diverted. This pond serves as a fish farm and also reed bed. It increases the ground water table. The water from this area is collected through bore well and this stored water is purified by the RO plant located inside the campus and hostel block. Also there exists a banana farm which utilizes the waste water and restores it into ground thereby increasing the groundwater table. This farm exists nearby the hostel. Using surface water instead of groundwater in daily works like washing, watering landlike irrigation and gardening, cooking and canteen cores. It is used for the plantation of trees beside the hostel and in and around the campus.

Displays of signboard and posters are done to create awareness among students in hostel and campus. The college emphasizes on the significance of water conservation and explains to all the students the importance of preserving and saving it. Students are encouraged to use water wisely and only when necessary. They also act immediately upon witnessing any wastage and take necessary action to stop it.

File Description	Document
Link for Additional Information	View Document

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

Usage of Bicycles

Bicycling significantly reduces transportation emissions, traffic congestion and the need for petroleum. We encourage the students in and around the institutional zone to prefer bicycles than two wheelers to maintain a pollution free zone.

Public transport

College transportation facilities are used to commute. As our institution is located in the national highway it facilitates easy mode of transportation through frequent route buses. Free buses are arranged for students who board nearby Arasur and madapattu stop which is 1.5km away from the campus. Students of scheduled caste and scheduled tribe can commute through college bus at free of cost.

Usage of Pedestrian friendly roads

The roads inside the campus as well as the approach roads are provided with wide sidewalks. Further trees line these sidewalks thereby providing shades. The security personnel regulate the traffic during rush hours.

The buffer zone of trees or parking also increases pedestrian safety. A pleasant walking environment with sidewalks, attractive landscaping is steps toward encouraging students choose transits.

Plastic free campus

Plastic Free institution is an awareness that is initiated to the students measurably to reduce plastic pollution on college campus, with a special focus on the reduction and ultimately the elimination of plastic - bottles, straws and food packaging in the canteen. Very high source of plastic bottles usually occur due to the intake of soft drinks (Pepsi, coke etc.) and these has been banned inside our campus.

Paperless office

Except the documents like statutory approvals, agreements, account statements and others dealing with legal matters only electronic documentation is maintained. All communications to faculty members and students are through e-mails and SMS. A separate group has been created for staff members in What's App through which all information and circulars related to academic work will be delivered whenever needed.

Green landscaping with trees and plants

Greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs and correct disposal handling. Our institute has worked out the time bound strategies to implement green campus initiatives. These strategies are incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus. The institute is a Green campus, lush, serene, with landscaping. The students and faculty are encouraged to plant more trees and make the campus, garbage and plastic free zone. Before the establishment of our institution, this place was merely a drought area. And once after undertaking this place we have filled the environment with approximately 30 types of trees. The reason behind the built-up of such eco-friendly environment is the use of organic manure and ample supply of water. Many kinds of shrubs and flowering plants are maintained surrounding the pathways. Grass lawns are well maintained which helps in improving air quality, acts as pollution filter, reduces heat, recreation and sports etc. The Illumination and

Ventilation in classrooms are adequate considering natural light and complete aeration. The noise level in the campus is well within the limit.

File Description	Document
Link for Additional Information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 1.23

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	4.63	4.576	4.089	3.673

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: D. At least 2 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
link to photos and videos of facilities for Divyangjan	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 6

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
01	03	02	00	00

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document
Any additional information	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 3

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	00	00	03

File Description	Document
Report of the event	View Document
Any additional information	View Document

7.1.12	
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff	
Response: Yes	
File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document
7.1.13 Display of core values in the institution and on its website	
Response: Yes	
File Description	Document
Provide URL of website that displays core values	View Document
7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations	
Response: Yes	
File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document
7.1.15 The institution offers a course on Human Values and professional ethics	
Response: Yes	
File Description	Document
Provide link to Courses on Human Values and professional ethics on Institutional website	View Document
7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions	
Response: Yes	

File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 10

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
02	02	02	02	02

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

The Institution organized national festivals like Republic Day , Independence day of India, Birth and Death anniversaries of the great Indian personalities and important days of National and International events and celebrated meaningfully .The institute celebrates these days of national events to recall the importance of the events and the contribution of great leaders take part in building a nation.

The institute takes great pride in organizing festivals that are celebrated all over the country and celebrating the life of those legendary Indian personalities who laid an everlasting impact on our history as a nation, the present we live in and continue to be as sources of inspiration for the generations to come. Some of the days that are celebrated in the college every year include:

Republic day in India is celebrated every year with great honour on 26th January to honour the Constitution of India as it came into force on the same day in the year 1950. It had replaced the Government of India Act, 1935 into the governing document of the India. At this day, a national holiday is declared by the Indian Government. The new Indian constitution was sketched and approved by the Indian

Constituent Assembly and decided to celebrate it on 26th of January every year as India became a republic country

India got its freedom from the British Rule on 15th August, 1947. Hence, we celebrate our **Independence Day** on 15th of August every year. There is national holiday on Independence Day. We all know that Freedom is not free. It took years of efforts, non-violence and other movement by our national freedom fighter to attain Freedom

Engineer's Day is celebrated on 15th September 2015 to commemorate the birthday of the legendary engineer Sir M. Visvesvaraya (1861-1962). In this event, various Engineering projects were displayed which gave practical significance to study topics of their textbooks.

Every year **Teacher's day** celebrated on 5th September recognizing the invaluable contributions and achievements of the teachers to the society and country. Dr. Sarvapalli Radhakrishnan was the President of India, Scholar, Diplomat, and most importantly a Great Teacher. He said, instead of celebrating 5th of September as birthday, it would be better appreciated if the day was dedicated to all the teachers of the country. Teacher's Day – in remembrance of Dr. Sarvepalli Radhakrishnan where the students are to write an essay on teacher's day celebrating the life of Dr. Sarvepalli Radhakrishnan.

Every year on National Voter's day eligible **voters** take a pledge, receive booklet highlighting his/her rights and obligations. Dedicated to the voters of the country, the Day is utilized to spread awareness among voters for promoting informed participation in the electoral process. The **National Voters' Day** is celebrated every year to mark the foundation **day** of the Election Commission of India, which was established on 25th January, 1950.

File Description	Document
Any additional information	View Document

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The governing council monitors every academic activity of the college. They conduct a meeting for every semester and discuss about the improvement steps needed in financial, academic and administrative functions and the remedies to be taken for the forthcoming semester. The minutes of meeting is circulated to all departments

The institution maintains transparency in its financial, academic, administrative and auxiliary functions in a very clean and fair manner. For faculties, the salary credited in the bank account at the end of every month without fail and salary slip issued to all faculty members with the undersigned of Chief Executive Officer. The disbursement of scholarships and other monetary benefits to the students is done through banks.

The institutional mechanism of monitoring the effective and efficient use of financial resources is periodically reviewed. The institution has appointed external auditors who regularly audit the accounts.

The budget for individual department is arrived by corresponding lab-in-charges and HOD and submitted to the Principal. Finally, the fund is sanctioned by Governing council. The bill payment for servicing and purchasing equipments for every laboratories are maintained in the accounts section and in the lab service and purchase file.

Students are given with bills for all the payments they made related to college activities.

The academic semester plan and year plan, bus facility, committee details, faculty details, college rules, hostel rules, all are given in the college calendar, which is distributed to students and faculty members during the starting time of every academic year.

The attendance percentage of the students are calculated every 15 days once and displayed in the notice board and parents are intimated through letter with acknowledgement in case of below 75% attendance.

Course committee meeting between faculty members conducted for the improvement of student's performance in tests and the minutes are recorded.

Student's academic and general grievances are recorded in class committee meeting.

The scheme for internal assessment mark is displayed in the notice board before each uploading of marks to Anna University. The progress report of the students sent to the parents through Inland letter along with university results.

Auxiliary functions are conducted in a transparent way. For this purpose, decisions are taken in staff meeting. All circulars regarding students are circulated and read in all classes and displayed on the notice board.

The College has established procedures for maintaining and utilizing physical, academic and support facilities.

Maintenance register is maintained and the complaints are registered with date and rectification is ensured by Estate manager.

Unique student id given to each student and official communication is done through that id.

File Description	Document
Any additional information	View Document

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

7.2.1.1 TITLE OF THE BEST PRACTICE: SMART SCORE

7.2.1.1.1 OBJECTIVES OF THE PRACTICE:

- To produce very good pass percentage in the Anna University Examinations.
- To produce Anna University rank holders in the Anna University examinations.
- To transform poorly performing students into successfully passed out engineers.
- To transform all students into knowledgeable in their engineering basic principles.
- To improve aptitude level of the students.
- To be confident enough to face Government and Union public service commission competitive examinations.
- To be able to understand and analyze the latest developments in engineering world.
- To be able to find out the problems/projects, by which the societal problems can be solved.

7.2.1.1.2 THE CONTEXT:

The contextual features are

- Subject allotment of faculty based on skill matrix.
- Sending the faculty for Faculty Development Programmes.
- Preparation of teaching learning methodology
- Preparation of course file and it contains
 - Time table
 - Preparation lesson plan.
 - Preparation of study materials
 - Mind mapping
 - Course Information Sheet
 - Course Assessment Sheet
 - Students name list
 - Target list for special care
 - Previous year University Question papers
 - CA Test question papers
 - Check list for topics coverage
 - Sample test papers
 - Consolidated test marks
 - Preparation/Updation of lab manuals
- Calibration of Laboratory equipments
- Planning for conducting Continuous Assessment Tests
- Planning for practice/pre CA Tests/ tutorial classes
- Planning for remedial tests / retests
- Planning for special counseling duties and coaching classes before Anna University Examinations.
- Planning model theory and practical examinations

7.2.1.1.3 THE PRACTICE:

- Initially the subject allotment to faculty members will be done through skill matrix, by which, the competency of the faculty in each subject is identified. Then the subject will be allotted.
- Faculty of a particular course finds the course objectives and outcomes from the syllabus and start preparations. Faculty will go faculty development programmes further to equip himself. Faculty will find a suitable innovative teaching learning methodology such as Mission 10X , mind mapping, animation videos etc. to teach the subject.
- Faculty has to prepare lesson plan as per the time table. In all the Departments, for all the subjects, well prepared study materials are kept in. The faculty members have to update the materials with latest informations. The study materials are being distributed to all our students on the first day of every semester. Hence, it ensures that faculty members are well equipped to teach the courses, with which they have been assigned.
- In each department, the students will be categorized based on their academic performance and a target list will be prepared. So that faculty member can easily implement a suitable teaching learning mechanism to each and every student.
- As per Anna University's academic schedule, all continuous assessment tests will be conducted. Since the internal assessment marks are based on the performance of the students in CA Tests, practice tests / preCA tests will be conducted prior to each CATest. Tutorial classes are conducted to all the analytical subjects. The students can prepare themselves for CA tests and they perform well. If any of the students fail in the exam/absent for the tests, then they will be given an opportunity to write remedial tests / retests respectively. This system enables students to improve their internal marks and in turn they can score good marks in University examinations. Model examinations are also being conducted for both theory and practical subjects.
- All faculty members will prepare a checklist for topic coverage of their courses. Checklist helps to identify the topics, which have been studied by the students and what need to be studied. Then the staff will guide the students to study the uncovered topics. So that, the full syllabus coverage can be achieved.
- Special coaching classes are also being conducted and Special counseling is being given through phone to both students and parents during examination period.
- Well equipped, updated and calibrated laboratory facilities are enhancing students' practical experience.

7.2.1.1.4. EVIDENCE OF SUCCESS:

Our college students had proved their potential and succeeded with University ranks such as 14thrank in 1998, 4thrank in 1999, 1st rank in 2001, 12thrank in 2003 and 7thrank in 2004 of University of Madras examinations and 3rd& 6th ranks in 2008, 19thrank in 2013, 9th, 10th, 36th& 41st ranks in 2014, 1st, 15th& 25th ranks in 2015, 5th& 8th ranks in 2016 & 10thrank in 2017 and 46th Rank in 2018 in Anna University, Chennai examinations.

our students have been placed in companies like TCS, Infosys, Accenture, Cognizant, HCL Comnet, Wipro, Rane Brake Lining Limited, Mitsuba Sical India Private Limited, S.H.Electronics, Amar Prakash Developers, CSS Corp, Axis global Automation, Sure Soft, KKM Soft, Mascons ECC, Star Ready Mix, CADD Centre, R.R. Machine Tools, Eureka Forbes, Rfluxyss, Reliance Communication, Soft Square, Axis Global Automation, Aveon Infotech, StudioQ Solution, Sharp Design Technologies, Scope Technology, SNY Autotech, Deccan Services, Springs Structural Engineering, etc.

Students those who participated and won the cash prize in external college events, our management reward them by giving 50% of cash of what they won in other college events.

7.2.1.1.5. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Every method will have some obstacles. Likewise in this method some students cannot write all the questions which are given by the faculty. The poor vocabulary in English language disturbs them in understanding the technical principles and in turn they cannot answer all the questions.

The financial back ground of the students disturbs them psychologically in concentrating their studies. Considering their poverty level, even our management allows them to pay their tuition fees in installments. However, they cannot manage the situation and struggle to overcome the academic challenges. So, the staff members have to counsel them frequently.

7.2.2.1 TITLE OF THE BEST PRACTICE: STUDENTS MENTORING SYSTEM

7.2.2.1.1. OBJECTIVES OF THE PRACTICE:

- To impart discipline.
- To increase the self confidence of the students.
- To improve their communication skills.
- To improve exam results.
- To encourage for participation in co-curricular and extra-curricular activities
- To encourage for participation in technical contests
- To give awareness about developments in the world and importance of being updated
- To give career guidance in placement, higher studies and entrepreneurship.

7.2.2.1.2. CONTEXT: Under this system 15-20 students are assigned to each of the faculty members in the college as counselor from their first year. Counseling Faculty create a better environment for their students in providing guidance, counseling and advice in any area of life, especially in academics as per the needs expressed by the students. The progress of the counseling is being recorded in track records of individual students. Faculties who are all working in the institution undergone faculty development program on counseling skills, personality development & career building by helix at Yercaud.

7.2.2.1.3. PRACTICE: The counseling faculty closely monitors their student's performance and provides an ongoing support to them. Counseling is done after every CA test and after the University exam Results. They also provide awareness and guidance about competitive examinations and courses required for placements. A counseling faculty encourages the students for pursuing higher studies and encourages entrepreneurship. Each and every detail regarding the student is noted down in their track record book to maintain a hard copy for reference. Frequent counseling sessions help the student in expressing their opinions and problems with ease. Track record books are updated with their results, achievements, certifications, attendance, scholarships and project details. We are also providing special counseling to the students during university examinations.

7.2.2.1.4. EVIDENCE OF SUCCESS: The evidence of success is the percentage of students passed in fiveyears from 2013 to 2018 academic result, number of students placed in the campus recruitment and number of students who got Anna university rank in last five years. After implementing the practice there is an increase in the pass percentage, the number of rank holders and placement record.

CASE STUDY

Testimony of Ms.S.SANGEETHA [Reg.No: 422714104015] [Recipient of Best All Rounder Award

2014 - 2018]

As every student, when I joined in this college in first year, I had no plans regarding my future. Just followed the book materials and staff's instructions. My 1st semester result was somewhat good.

I'm a quite extrovert and optimistic by nature. I won't feel sluggish when I'm in college. When I entered 2nd year, slowly the fear about the future started on me. That was the time I had been in the extreme thirst of knowledge and to showing up myself.

My mentor just introduced the term "DATA SCIENCE and BIG DATA" to me in my 2nd year. The first thing which made me to fall for DATA SCIENCE is my first victory on the paper presentation event in the symposium conducted by Computer society of India (CSI).

Till then, I just memorized the paragraphs about what I had to present in the event. After that, I tried to learn and clarified all the terms regarding what I'm presenting. I had done several presentations, all that were related to BIG DATA. Because I was damn sure that on going forward, it is going to rule the technology world. I had learned at least 2 or 3 new things in every time and I refreshed the presentation contents.

My mentor always said that "Just Do it ma, it's the simplest thing I had seen". I used to think that why he is putting so much pressure on me. But later I understand that it's not pressure, he had that much of hope on me.

At the 3rd semester holidays, he called me to attend the "R language" class which was held for the final year folks at that time. There R language was introduced to me and I learned the very little basics of R language. At that time I had decided my goal is "DATA SCIENTIST". Then as usual concentrating on both studies and events and 2nd and 3rd year went on.

I was very careful and sincere in my academics, because it's the primary metric of weighing our skills. Being honest, I used to study at least ½ hour per day.

We had some talks about the final year project in 3rd year itself. My mentor strictly insisted me to do my own project which seemed to be an impossible thing for me at that time.

He used to say many things like improving the communication skills and gave some daily tasks to improve in analytical and logical skills.

In final year, he asked me to go for an internship at MSIT, Coimbatore. That was the greatest struggle I had faced, because I had to compromise my family to attend internship. After a big battle I got permission.

There I got the knowledge about the Ph.D. degree, how does the theories were analysed, which gave me some ideas to document my project.

Then at the 8th semester, the project works were started. It takes nearly more than one month to confirm my project.

At the time of projects, it came to know that the simplest thing would also seem to be drastic when we do not understand that. The days went on for searching many new things. Actually, at that time I even don't

have any resources like lap, Wi-Fi at home. I used to spend all the evenings at browsing centres.

Every staffs in our department often encouraged me and helped me a lot in my personal life and in my carrier too.

He had pushed me into the well, because I have to learn swimming by my own. May be if someone spoon-feed the knowledge, we will just observe and forget. When we try to learn by our own it'll never go off. He always used to say that Self-learning is the best teacher.

And told me to try GATE and TANCET exams too.

Now I'm working in the designation of "DATA ANALYST" which is the initial step to reach my goal.

The result of our hard work will definitely reach us one day even though it gives you wound in the path, the scars will disappear once you reach the goal but only if we work in an honest way. This is the thing that I had learnt.

7.2.2.1.5. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: In some circumstances, an introvert student might not be able to express their opinions .To overcome this problem, faculties are trained on latest counseling techniques.

File Description	Document
Link for Additional Information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

V.R.S. College of Engineering and Technology was established in the year 1994 under the aegis of S.P.S. Educational trust. In 25 years of our engineering educational journey, we produced more than 4400 engineering graduates to the society. The vision of our institution is to improve the socio-economic status of the poor rural peasants by providing opportunities to them to acquire engineering and technical skills. To achieve the vision, various activities are developed to make the student a complete professional.

Most of the admitted students are from the economically weaker background, and a significant number of open category students are from low-income family. Their parents are daily wages, porters and farmers. Most of the students depend on the SC/ST, MBC, Farmer and Post Metric Scholarships given by the government and education loan provided by the banks. Hence, the tuition fees are allowed to pay on an installment basis, throughout the academic year. Economically weaker section cell identifies brightest students with economically weak background, irrespective of their caste from each class of all branches and award cash reward of Rs.3000/- during every year annual day celebrations. Group Insurance facility is being operated for the benefit of both parents and students.

The college premises located in a rural area, so free transportation is provided for SC/ST students. Local area students from Arasur and Madapattu are equipped with free transportation.

To bridge the gap between subjects studied at school and subjects they will study in engineering, a bridge course for newly admitted students are being conducted every year before the commencement of the first semester classes. During study holidays, students are encouraged to prepare for university exam through phone calls by the faculty members and special coaching classes are being conducted.

Associations formed in each department conducts seminars, guest lectures, add on programmes, certificate programmes, value-added programmes, life skill development programmes, entrepreneurship awareness camp to the students for enhancing their knowledge and life skills.

Students are encouraged to participate in internal and external college events like project contests, paper presentation, seminars, workshops, and conferences and journal publications. Students those who participated and won the cash prize in external college events, our management reward them by giving 50% of cash of what they won in other college events.

Best all-rounder student award is constituted for the student who is sound in both curriculum and extra curriculum activities.

Our college students had proved their potential and succeeded with University ranks such as 14thrank in 1998, 4thrank in 1999, 1st rank in 2001, 12thrank in 2003 and 7thrank in 2004 of University of Madras examinations and 3rd& 6th ranks in 2008, 19thrank in 2013, 9th, 10th, 36th& 41st ranks in 2014, 1st, 15th& 25th ranks in 2015, 5th& 8th ranks in 2016 & 10thrank in 2017 and 46th Rank in 2018 in Anna University, Chennai examinations.

Placement cell strives hard with confidence to develop employability skills of the students by all means. It starts to provide soft skill training to students from the first year of their course. After imparting the required skills to students to make them employable, it is continuously interacting with Industries to know their needs of human resources recruitment.

Further, It guides the students to know their field of specialization or career domain by conducting interactive career guidance programmes.

To establish healthy Industry-Institute partnership for providing Industry visits, Inplant Training, Internship and Placement opportunities to students, it is signing MOU with many Industries.

During vacation leave, students are encouraged to attend the paid internship in various industries like Lenovo, EID Parry Limited, L&T and Rane India etc.

As a result of tremendous effort taken by the management to uplift the students and to improve the overall living standard of the student's and their families, our students have been placed in companies like TCS, Infosys, Accenture, Cognizant, HCL Comnet, Wipro, Rane Brake Lining Limited, Mitsuba Sical India Private Limited, S.H.Electronics, Amar Prakash Developers, CSS Corp, Axis global Automation, Sure Soft, KKM Soft, Mascons ECC, Star Ready Mix, CADD Centre, R.R. Machine Tools, Eureka Forbes, Rifluxyss, Reliance Communication, Soft Square, Axis Global Automation, Aveon Infotech, StudioQ Solution, Sharp Design Technologies, Scope Technology, SNY Autotech, Deccan Services, Springs Structural Engineering, etc.

Indian Society for Technical Education, New Delhi has recognized our efforts by awarding Best ISTE chapter award, faculty advisor award, student award and secretary award for the past five years.

The library plays a vital role in developing economically backward students. The library contains 32,783 volumes of books in that 1359 volumes of books exclusively for economically weaker students, 38 national journals, 503 international journals through DELNET, 2,683 EBooks and 4 Magazines covering all disciplines of engineering, science and management. The faculty members prepare subject materials with the updation of previous year Anna university question paper. The hard copies of the lecture material are made available at a lower cost.

The Department of Physical Education is equipped with both indoor and outdoor facilities for the students. It is framed with a separate committee of faculties to organize, motivate and guide students to participate in various zonal and inter-collegiate events. As a result, students have performed well in Zonal, State and National level sports events and won many medals.

Students are a part of the institution even after their graduation. Hence, the Alumni Association has been formed, and it keeps track of past students' career growth. The passed out students are invited every year to Alumni Meet, organized during January at our College Campus. They have been given facility in the college website to enroll them as a member of the Alumni Association.

Best Alumni awards are being given away to the achievers in the Alumni Meet events. Moreover, the members of the Alumni association often visit the institute and share their knowledge and experience with our staff and students. Additional skill development activities are carried out based on their suggestions.

The socio economic status of our passed out students is good in the society by attaining 3 lakh to 15 lakh salary per annum and in the top level management position.

File Description	Document
Link for Additional Information	View Document

5. CONCLUSION

Additional Information :

The institution has the best of infrastructure facilities and fulfills all AICTE norms. The growth of the infrastructure keeps pace with the academic growth of the institution. The Institute facilitates well equipped and managed centrally controlled digital library with all basic requirements such as printing, scanning, and DVD/CD writing facility. We are the registered member of DELNET. Digital library gives a good support to both students and faculty to access e-journal and e-books for their regular update in academic and research field. The institute has adequate number of computers and licensed software. The campus is connected with Wi-Fi technology for the open access of internet.

The faculty having the synergy of excellence in application oriented teaching and continuous endeavour to impart the knowledge to groom the students into industry ready engineers. The institution has provision for use of LCDS etc as the part of information and communication technology in the enhancement of teaching process along with Wipro Mission- 10X teaching methods.

The teachers of the institution have been encouraged to attend seminars, conferences, workshops, faculty development programs for continued academic growth and professional development. The institution promotes research culture among the faculty and students by conducting exploratory research projects at department level. The faculty members are guiding students to do major and mini projects. The faculty members are encouraged to publish books/journals and to participate in consultancy work. The institution has an R & D Cell which monitors exploratory projects that leads for funding from statutory agencies such as AICTE, ISTE and industries etc.

Concluding Remarks :

The College has been awarded by Anna University, Chennai, (www.annauniv.edu) with the following marks based on our College infrastructure facilities and staff strength: Civil – 84.5%, CSE-81.3%, EEE-83.1%, ECE-82.7%, Mech-92.0%.

The college students had proved their potential and succeeded with University ranks such as 14th rank in 1998, 4th rank in 1999, 1st rank in 2001, 12th rank in 2003 and 7th rank in 2004 of University of Madras examinations and 3rd& 6th ranks in 2008, 19th rank in 2013, 9th, 10th, 36th& 41st ranks in 2014, 1st, 15th& 25th ranks in 2015, 5th& 8th ranks in 2016 and 10th rank in 2017 in Anna University, Chennai examinations.

VRSCET graduates are placed in a diverse range of organizations. A great many students have gone for their higher studies both within India and abroad. Our students have been performing commendably well in State and National level sports and games competitions.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
2.1.2	<p>Average Enrollment percentage</p> <p>(Average of last five years)</p> <p>2.1.2.1. Number of students admitted year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>325</td> <td>189</td> <td>268</td> <td>356</td> <td>341</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>325</td> <td>121</td> <td>197</td> <td>345</td> <td>319</td> </tr> </tbody> </table> <p>2.1.2.2. Number of sanctioned seats year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>438</td> <td>438</td> <td>636</td> <td>636</td> <td>516</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>420</td> <td>420</td> <td>600</td> <td>600</td> <td>480</td> </tr> </tbody> </table> <p>Remark : DVV made the changes as per admission report provided by HEI.</p>	2017-18	2016-17	2015-16	2014-15	2013-14	325	189	268	356	341	2017-18	2016-17	2015-16	2014-15	2013-14	325	121	197	345	319	2017-18	2016-17	2015-16	2014-15	2013-14	438	438	636	636	516	2017-18	2016-17	2015-16	2014-15	2013-14	420	420	600	600	480
2017-18	2016-17	2015-16	2014-15	2013-14																																					
325	189	268	356	341																																					
2017-18	2016-17	2015-16	2014-15	2013-14																																					
325	121	197	345	319																																					
2017-18	2016-17	2015-16	2014-15	2013-14																																					
438	438	636	636	516																																					
2017-18	2016-17	2015-16	2014-15	2013-14																																					
420	420	600	600	480																																					
2.1.3	<p>Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years</p> <p>2.1.3.1. Number of actual students admitted from the reserved categories year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>325</td> <td>189</td> <td>268</td> <td>356</td> <td>341</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>192</td> <td>187</td> <td>267</td> <td>348</td> <td>275</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	325	189	268	356	341	2017-18	2016-17	2015-16	2014-15	2013-14	192	187	267	348	275																				
2017-18	2016-17	2015-16	2014-15	2013-14																																					
325	189	268	356	341																																					
2017-18	2016-17	2015-16	2014-15	2013-14																																					
192	187	267	348	275																																					

2.3.3	<p>Ratio of students to mentor for academic and stress related issues</p> <p>2.3.3.1. Number of mentors Answer before DVV Verification : 117 Answer after DVV Verification: 37</p> <p>Remark : DVV made the changes as per mentor list provided by HEI.</p>																				
2.4.4	<p>Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years</p> <p>2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years Answer before DVV Verification:</p> <table border="1" data-bbox="306 707 1046 842"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>27</td> <td>55</td> <td>45</td> <td>31</td> <td>37</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 920 1046 1055"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>55</td> <td>45</td> <td>31</td> <td>37</td> </tr> </tbody> </table> <p>Remark : DVV has not considered appreciation certificate and participation certificate provided by HEI.</p>	2017-18	2016-17	2015-16	2014-15	2013-14	27	55	45	31	37	2017-18	2016-17	2015-16	2014-15	2013-14	8	55	45	31	37
2017-18	2016-17	2015-16	2014-15	2013-14																	
27	55	45	31	37																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
8	55	45	31	37																	
2.6.3	<p>Average pass percentage of Students</p> <p>2.6.3.1. Total number of final year students who passed the examination conducted by Institution. Answer before DVV Verification : 250 Answer after DVV Verification: 264</p> <p>2.6.3.2. Total number of final year students who appeared for the examination conducted by the institution Answer before DVV Verification : 355 Answer after DVV Verification: 355</p> <p>Remark : DVV made the changes as per annual report provided by HEI.</p>																				
3.3.4	<p>Number of research papers per teacher in the Journals notified on UGC website during the last five years</p> <p>3.3.4.1. Number of research papers in the Journals notified on UGC website during the last five years Answer before DVV Verification:</p> <table border="1" data-bbox="306 1928 1046 2063"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>22</td> <td>31</td> <td>28</td> <td>27</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	24	22	31	28	27										
2017-18	2016-17	2015-16	2014-15	2013-14																	
24	22	31	28	27																	

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
23	20	29	27	26

Remark : DVV has not considered those journals which are not in UGC list.

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
46	24	31	48	04

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
12	9	0	16	1

Remark : DVV made the changes as per first page of books provided by HEI. And first page of book for the year 2015-16 not provided by HEI.

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
8	11	8	8	6

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

Remark : E-copies of award not provided by HEI.

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

3.4.4.1. Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
4	3	3	3	4

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
75	3	3	3	4

Remark : DVV made the changes as per program report provided by HEI.

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

4.1.4.1. Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1286678	1505345	1273541	1962156	5691172

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	22.11	16.47	25.03	33.64

Remark : Audit statement for 2017-18 not reflect Budget allocation for infrastructure augmentation, excluding salary provided by HEI.

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

4.2.4.1. Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
162649	271036	385533	577413	310768

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14

19.04	2.84	19.58	17.42	17.55
-------	------	-------	-------	-------

Remark : DVV made the changes as per library books in audit report duly sign by CA. And audit report of 2016-17 not provided by HEI.

4.2.6 Percentage per day usage of library by teachers and students

4.2.6.1. Average number of teachers and students using library per day over last one year

Answer before DVV Verification : 120

Answer after DVV Verification: 57

Remark : DVV made the changes as per log book provided by HEI.

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

Answer before DVV Verification : ≥ 50 MBPS

Answer After DVV Verification: 5-20 MBPS

Remark : DVV made the changes as per e-bill provided by HEI.

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

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)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1000000	1000000	1000000	1000000	1000000

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
3.55	105.11	88.39	110.04	111.43

Remark : DVV made the changes as per expenditure of Postage and Courier Expense, Annual Maintenance Charges, Miscellaneous Charges, Sports Expense, Telephone Expense, Travelling Expense in audited statement for 2017-18 provided by HEI.

5.1.2 Average percentage of students benefited by scholarships, freships, etc. provided by the institution besides government schemes during the last five years

5.1.2.1. Total number of students benefited by scholarships, freships, etc provided by the institution besides government schemes year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1155	1157	1348	1542	1654

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1155	1157	1348	1542	1653

Remark : Relevant document not provided by HEI.

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

Answer before DVV Verification : 3 Lakhs - 4 Lakhs

Answer After DVV Verification: 1 Lakh - 3 Lakhs

Remark : DVV made the changes as per alumni contribution provided by HEI.

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

5.4.3.1. Number of Alumni Association /Chapters meetings held year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
3	2	1	1	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

Remark : Alumni meetings not provided by HEI.

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
2	4	20	129	127

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
2	4	20	128	126

Remark : Letter indicating financial assistance not provided by HEI for the year 2013-14 and

2014-15.

- 6.5.4 Quality assurance initiatives of the institution include:
1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
 2. Academic Administrative Audit (AAA) and initiation of follow up action
 3. Participation in NIRF
 4. ISO Certification
 5. NBA or any other quality audit
- Answer before DVV Verification : A. Any 4 of the above
 Answer After DVV Verification: D. Any 1 of the above
 Remark : DVV made the changes as per annual Quality Assurance Report of Quality assurance initiatives provided by HEI.

- 7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

7.1.1.1. Number of gender equity promotion programs organized by the institution year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
3	3	3	3	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	3	3	3	2

Remark : DVV made the changes as per report of gender equity provided by HEI.

- 7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

7.1.8.1. Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14

100000	100000	100000	100000	100000
--------	--------	--------	--------	--------

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	4.63	4.576	4.089	3.673

Remark : Audited statement not reflect expenditure on green initiatives and waste management provided by HEI for the year 2017-18.

7.1.9	<p>Differently abled (Divyangjan) Friendliness Resources available in the institution:</p> <ol style="list-style-type: none"> 1. Physical facilities 2. Provision for lift 3. Ramp / Rails 4. Braille Software/facilities 5. Rest Rooms 6. Scribes for examination 7. Special skill development for differently abled students 8. Any other similar facility (Specify) <p>Answer before DVV Verification : C. At least 4 of the above Answer After DVV Verification: D. At least 2 of the above</p> <p>Remark : DVV made the changes as per photos of differently abled of students resources available in the institution provided by HEI.</p>																				
7.1.10	<p>Number of Specific initiatives to address locational advantages and disadvantages during the last five years 7.1.10.1. Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <tr> <td>2017-18</td> <td>2016-17</td> <td>2015-16</td> <td>2014-15</td> <td>2013-14</td> </tr> <tr> <td>9</td> <td>8</td> <td>9</td> <td>9</td> <td>9</td> </tr> </table> <p>Answer After DVV Verification :</p> <table border="1"> <tr> <td>2017-18</td> <td>2016-17</td> <td>2015-16</td> <td>2014-15</td> <td>2013-14</td> </tr> <tr> <td>01</td> <td>03</td> <td>02</td> <td>00</td> <td>00</td> </tr> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	9	8	9	9	9	2017-18	2016-17	2015-16	2014-15	2013-14	01	03	02	00	00
2017-18	2016-17	2015-16	2014-15	2013-14																	
9	8	9	9	9																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
01	03	02	00	00																	
7.1.11	<p>Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)</p> <p>7.1.11.1. Number of initiatives taken to engage with and contribute to local community year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <tr> <td>2017-18</td> <td>2016-17</td> <td>2015-16</td> <td>2014-15</td> <td>2013-14</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	2017-18	2016-17	2015-16	2014-15	2013-14															
2017-18	2016-17	2015-16	2014-15	2013-14																	

9	8	9	9	9
---	---	---	---	---

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	00	00	03

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

7.1.17.1. Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
5	4	4	4	4

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
02	02	02	02	02

Remark : DVV made the changes as per report of activity conducted for promotion of universal values provided by HEI.

2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p>Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <tr> <td>2017-18</td> <td>2016-17</td> <td>2015-16</td> <td>2014-15</td> <td>2013-14</td> </tr> <tr> <td>325</td> <td>371</td> <td>561</td> <td>561</td> <td>407</td> </tr> </table> <p>Answer After DVV Verification:</p> <table border="1"> <tr> <td>2017-18</td> <td>2016-17</td> <td>2015-16</td> <td>2014-15</td> <td>2013-14</td> </tr> <tr> <td>193</td> <td>256</td> <td>387</td> <td>387</td> <td>281</td> </tr> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	325	371	561	561	407	2017-18	2016-17	2015-16	2014-15	2013-14	193	256	387	387	281
2017-18	2016-17	2015-16	2014-15	2013-14																	
325	371	561	561	407																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
193	256	387	387	281																	
1.3	<p>Number of outgoing / final year students year-wise during the last five years</p> <p>Answer before DVV Verification:</p>																				

2017-18	2016-17	2015-16	2014-15	2013-14
355	338	399	484	459

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
478	338	399	484	459

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
117	131	131	130	128

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
117	131	131	130	128

2.2 Number of sanctioned posts year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
116	120	130	130	126

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
117	131	131	130	128

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
10000000	10000000	10000000	10000000	10000000

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
663.36	246.04	230.13	289.93	434.36