Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE**
Name of the head of the Institution	**Dr. V.S.K. Venkatachalapathy**
Designation	**Director**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04132642000**
Mobile no.	**9443444844**
Registered Email	**vskvenkatachalapathy@smvec.ac.in**
Alternate Email	**jksspondy@gmail.com**
Address	**Madagadipet, Puducherry**
City/Town	**Puducherry**
State/UT	**Puducherry**
Pincode	**605107**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. S. Anbumalar**
Phone no/Alternate Phone no.	**04132642000**
Mobile no.	**9443179533**
Registered Email	**vskvenkatachalapathy@smvec.ac.in**
Alternate Email	**iqac@smvec.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://smvec.ac.in/accreditation/naac/

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://smvec.ac.in/wp-content/Files/Hometitle/Even_Sem_Calender_2018-19.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	**A**	**3.03**	**2019**	**28-Mar-2019**	**27-Mar-2024**
1	**A**	**3.14**	**2013**	**05-Jan-2013**	**04-Jan-2018**

6. Date of Establishment of IQAC	**15-Mar-2013**

7. Internal Quality Assurance System

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

NBA (second cycle Accreditation)	02-Feb-2018 3	3304	
NAAC(second cycle Accreditation)	25-Mar-2019 2	4000	
IEEE Society on Social Implications of Technology, Madras Section	11-Aug-2018 1	50	
Submitting application to UGC requesting Autonomous status	20-Dec-2018 1	4000	
Compiled data for NIRF and submitted application for the year 2017-2018 Students quality improvement initiatives State Youth Parliament Winner- Ministry of Youth Affairs and Sports & NSS, New Delhi	26-Feb-2019 1	4000	
Campus Herbal Garden	13-Jul-2018 1	4000	
Voluntary Blood Donation a Camp	06-Sep-2018 1	100	

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
C.Adrien periyanayagam	Smart India Hackathan	MHRD-AICTE	2018 90	100000
Dr.S. Anbumalar	Product development	Institution of Engineers (IE)	2018 365	15000
Dr.M.Subba	Product development	Appaswamy associates	2018 180	50000
Dr.K.Hemalatha	Product development	SMVE Trust	2019 90	12000
Dr.G.G.Sozhamannan	Product development	SMVE Trust	2019 90	13000
Dr. S. Jayakumar	Product development	Ladder Survey Pvt. Ltd, Chennai	2018 180	50000
Dr. S. Jayakumar	Product development	V land Best Hub, Puducherry	2018 180	30000
Dr. S.	Product	Swasam	2018	30000

Jayakumar	development	Builders, Puducherry	180	
Dr. S. Jayakumar	Product development	Span Check Associates	2018 240	30000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View Link
10. Number of IQAC meetings held during the year :	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View Uploaded File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

• Got NBA Accredited • Got NAAC Accredited • Autonomous • Applying to NIRF • Submission of Research proposals and fund fetched • Participated in India TodayMDRA best college ranking and obtained 136th rank • Participated in AICTECII survey (24.8.2018) and received silver award • Received the best academic partner award from ICTACT ,Puducherry • Participated in ATAL ranking (30.1.2019) • Institute Innovation council received best performing award from MHRD INNOVATION CELL • Received India Education Excellence award from BERKSHIRE MEDIA Pvt.Ltd,Bangalore

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
To become NAAC Accredited college and applied for the same in October ,2018	Accredited by NAAC in March 2019
To become an Autonomous college and applied for it on Dec 2018	Become Autonomous in September 2019
To introduce new courses	B.Tech in Mechatronics and Biomedical Engineering are introduced in the year 2019

To conduct Innovators day(National level project contest) to enrich and flourish quality culture	Innovators day conducted on September 15th 2018
To conduct IEEE workshop	IEEE one day National workshop is conducted on 11.08.2019
To increase number of FDP, Value Added Courses, Industrial training/Linkages/Collaboration, Seminar, Research Publications etc.,	The said objectives are achieved and the details of the outcome are given in Part B in the respective criteria.
To improve the research culture, proposals are planned to submit to MSME / TBI / IEI, AICTE, ISTE etc.	Number of Proposals that are submitted by departments for various funding agencies are given below ? RPS (AICTE) – 3 ? STTP (AICTE) – 2 ? Refresher program (ISTE) – 2 ? No. of patents applied in the last semester – 10 ? MODROBs-3 ? No. of Projects submitted to MSME / TBI – 14 ? No. of Projects submitted IEI - 2 Out of which 2 MODROBs are sanctioned by AICTE
To become one among in the top hundred ranks in NIRF	Applied and awaiting for the result
To prepare the AQAR report	AQAR report was submitted for the academic year 2017-2018.
Planned to Encourage the students to participate in the various State/National level events organized by government / non-government organizations to exhibit their qualities.	? Research papers presented in IEEMA-ELROMA 2018 conference by EEE students held at Mumbai on o Modeling and analysis of reduced stator type linear induction type o Noise reduction in salient pole synchronous reluctance motor using HANDSOFTMAXWELL ? EEE students M. Shylesh, Arunachalam and L.R.Ravindranath got selected to present the model in STUDENTS ENGINEERING MODEL COMPETITION (SEMC) 2018 during 5-8th October 2018 in India International Science Festival (IISF) organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow ? S.Yuvankumar , P.Santhoshkumar , S.Deva , E.Rajkumar from III year EEE department had successfully participated in the PHASE 1 of the IAF Swarm drone competition held on 18 December 2018 at Air Force auditorium, New Delhi. ? The EEE students Megavarman and Riaz received Rs.20,00,000 from DST for their start-up through IICDC 16 conducted by Texas Ins.in collaboration with DST. ? R.Anu Karthika and K.Swetha from CSE department won the TCS InfraMind 2018 1st Runner up with the cash prize of Rs.1,00,000/- and got the job offer in

TCS, Chennai. ? S. Aravindh, S. Hemachandran, R. Srikrishna and S. Deasione from the CSE won the 1st Runner-up prize with the cash prize of Rs. 10,000/-. Conducted by ICT Academy, Chennai ? Nallam Paramkousam, R. Giridhar of CSE Won 1st prize in TCS ShopNova 2018 got Rs. 25,000/- cash prize and Internship ? Students of CSE Department, A.Nevinkumar, R. Jawahar Won 1st prize in TCS Innovate 2018 and got Rs. 25,000/- cash prize with Internship and offer letter.

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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Body	07-Apr-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	25-Mar-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	28-Feb-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	If yes, give a brief description and a list of modules currently operational. (Maximum 500 words) Yes, college has Management Information System. SMVEC Management Suite is the management information system adopted by the institution to inform the activities, events, and also send details of the students' performance to their parents. Every student and staff are given user name and password to upload or download the files and check their database. Faculties put their attendance in online and upload the subject notes, presentations, IA marks, etc. Circulars

are also sent online to individual students and staffs. Calendar of events, faculty achievements, activities, events, programs conducted are updated as and when it is conducted. • College Intranet: The following information is shared through intranet to all the teaching and non teaching staff: • Notices and Circulars. • Examinations Display of external Marks, old question papers, Model Question papers, Invigilation duties and examination schedules. • Digital Library Open access to all faculty and students. Digital library consists of IEEE, ASME, Elseveir Journals, Digital Library Journals, Syllabus books, Lab Manuals, and other ebooks and eJournals. • Faculty can share data on their Research Activities, through intranet. • Previous issues of SMVEC News letter are available on intranet. • Campus is connected through WiFi. College Website: The following information is displayed on the college website: • Online fees payment by students. • Admission Enquiry forms • Notifications, Instructions, circulars for students are displayed in the college website. • Departmental related information is displayed under each departmental link. • Information related to Placements, alumni, infrastructure and achievements are displayed. • Facebook Account has been created for SMVEC to keep all the stakeholders updated on the latest news regarding college. • Bulk SMS are sent to all the students, parents and faculties through SMVEC management suite.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Effective curriculum is manifested through a wide range of activities. Being an affiliated institute, the institute implements the curriculum prescribed by Pondicherry University. Plan for effective implementation of curriculum at the outset, the Director cum Principal of the college conducts meetings with the various Head of Departments to develop strategies for effective implementation of the curriculum. Faculties are encouraged to plan in advance to impart the curriculum following OBE (Outcome Based Education) through innovative teaching

methods such as Presentations, Assignments, Discussions, Workshops, Seminars and Industrial visits besides the regular/traditional chalk and talk methods. College academic calendar is prepared and a specific department calendar of Events is derived well in advance before the commencement of the semester. It consists of the activities planned for the semester which includes schedules for Internal Examinations, Guest lectures, Conferences, Workshops, Industrial visits, Value added courses, Innovators day, Annual day celebration, Student's feedback collection, Project review, Syllabus completion and Quality Circle Meeting. The department Vision and Mission, CO, PEO, PSO are stated in the Academic calendar. Lesson plan with course objectives and course outcomes are prepared by the subject handling faculty based on the academic calendar, before the commencement of the semester and is duly approved by the Head of the Department. During the semester, the faculty members strictly follow the lesson plan laid out for each course and is also verified by the Head of the Department periodically. The Institution conducts academic audit of attendance registers, internal exams, question papers and evaluation process. The course files are evaluated by an Internal Quality Assurance Committee (IQAC) with help of concerned senior subject teacher and HOD. Periodical feedback is obtained from the students in aspects of teaching-learning process. The students are continuously assessed and evaluated through assignments, classroom performance and internal assessment exams. The academic review meetings are held before the commencement of internal examinations to review the progress of syllabus coverage and the effective delivery of the instruction. The course level attainment levels and program outcome attainment levels are monitored annually for continuous improvement. Regular mentoring is carried out by the faculties and grievances if any, suitable remedial measures are taken as and when necessary. There is a defined mechanism to conduct remedial and enrichment programs. While remedial classes are typically conducted after the regular college hours, enrichment programs, for instance value-added courses, guidance and mentoring, etc. are inter-weaved throughout the semester for students. The College encourages its faculty members to participate in Orientation/ Refresher Courses/ Workshops/ Seminars organized by the University so as to update their knowledge and to improve the teaching practices. College establishes MOUs with various industries and institution. Bridge courses are organized and conducted for the second year students and lateral entry students to help them understand basic concepts of Mathematics and Engineering. Employing learner centric techniques such as assignments, group discussion, brain storming, use of NPTEL lectures, case studies, projects, quiz etc., in the delivery of the academic courses.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Programming in Java	–	21/01/2019	60	Employability	To become a good programmer in java
Data Science for Engineers	–	02/02/2019	3	Employability	Able to understand data and processing of data
Privacy and Security in Online Social Media	–	21/01/2019	45	Employability	Projects related to Social media

Process Control - Design, Analysis and Assessment	–	28/01/2019	80	Employability	Analysis Skill
Chemical Process Control	–	17/02/2019	80	Employability	Core Skill
Problem solving through Programming In C	–	17/02/2019	80	Employability	Programming Skill
Introduction to Internet of Things	–	08/01/2019	80	Employability	Analysis Skill
Microprocessors and Microcontrollers	–	28/01/2019	80	Employability	Coding Skill
Electronic Modules for Industrial Applications using Op-Amps	–	28/01/2019	80	Employability	Analysis Skill
Non-Conventional Energy Resources	–	28/01/2019	80	Employability	Analysis Skill
Laws of thermodynamics	–	16/07/2018	2	Employability	Familiarity on laws of thermodynamics
Robotics	–	10/07/2018	2	Employability	Pick and place robot
Engineering Metrology	–	23/07/2018	3	Employability	Linear measurements
Principles of Casting Technology	–	09/07/2018	2	Employability	Different types of casting
Manufacturing Process Technology	–	17/12/2018	3	Employability	Basics in casting process
Introduction To Composites	–	10/12/2018	3	Employability	Fiber selection
Automatic	–	03/12/2018	2	Employability	Automatic

Control				ity	control real time application
Introduction to Internet of Things	–	10/01/2019	2	Entrepreneurship	IOT basics
Teaching And Learning in Engineering (TALE)	–	12/01/2019	2	Employability	Teaching/Learning method
Product Design and Development	–	07/02/2019	2	Employability	Design for assembly
IC Engines and Gas Turbines	–	21/01/2019	2	Employability	Alternate fuels selection
Concepts of Thermodynamics	–	28/01/2019	2	Employability	Application of 1st law of thermodynamics
Fundamentals of Welding Science and Technology	–	01/02/2019	3	Employability	Types of welding
Kinematics of Mechanisms and Machines	–	14/02/2019	3	Employability	Various mechanisms in KOM
Principles of Human Resource Management	–	15/02/2019	2	Employability	Exposure on Effective utilization of men, machine and material
Material Science and Engineering	–	08/01/2019	2	Employability	Different crystal structures
Pushover analysis of building using SAP 2000	–	29/06/2018	1	Employability	Design Analysis
3D Drawing	–	30/07/2018	6	Employability	Software Application
Design and Drawing	–	25/08/2018	5	Employability	Design Analysis
Op-Amp Practical Ap	–	04/06/2018	2	Employability	Technical skills

plications: Design, Simulation Implementation-					
Sensors and Actuators	–	04/06/2018	2	Employability	Technical skills
House wiring and electrical safety	–	18/06/2018	2	Employability	Technical skills
Installation, Repair and Maintenance of Home Appliances	–	25/06/2018	2	Employability	Technical skills
Certificate Course in Electronic Product Testing	–	09/07/2018	2	Employability	Technical skills
Programmable logic controller-PLC	–	16/07/2018	2	Entrepreneurship	Technical skills
Electrical earthling	–	01/08/2018	2	Employability	Technical skills
Single phase and Three phase wiring	–	10/12/2018	2	Employability	Technical skills
Technical English for engineer	–	10/12/2018	2	Entrepreneurship	Communication skills
Cloud Computing	–	07/01/2019	2	Employability	Programming skills
PSpice software	–	07/01/2019	2	Employability	Technical skills
Design of Transformer in MAXWELL	–	25/02/2019	2	Employability	Technical skills
PSpice software	–	18/06/2018	2	Employability	Technical skills
Cloud Computing	–	04/07/2018	2	Employability	Programming skills
Applied	–	30/07/2018	60	Employability	Technical

Course Name		Date	Duration	Type	Outcome
Electronics for Engineers					ity skills
Analog Electronic Circuit	–	30/08/2018	40	Employability	Working of active and passive devices
Analysis and Design Principles of Microwave Antennas	–	30/08/2018	40	Employability	Long distance communication design with problems
Android Online Course – Become an App Developer	–	30/08/2018	40	Entrepreneurship	Application Development for projects
Antennas	–	13/08/2018	60	Employability	Types of antenna and its application
Advanced programming in Network Simulator-2	–	13/08/2018	60	Employability	Technical skills
MATLAB	–	20/08/2018	2	Employability	Technical skills
Programming in C	–	07/01/2019	2	Employability	Programming skills
Programming in JAVA	–	07/01/2019	2	Employability	Programming skills
Applied Optimization for Wireless, Machine Learning, Big Data	–	28/01/2019	40	Employability	In-depth concepts in modern data management
Aptitude training	–	28/01/2019	40	Employability	Numerical skill development
Analysis of Nano materials	–	28/01/2019	60	Employability	Deep knowledge of NANO materials and utilization
Core JAVA	–	04/02/2019	2	Employability	Technical skills

Course		Date	Duration (hours)	Focus	Outcome
Programming in C and C	-	02/07/2018	6	Employability	Programming skill
Data Structures Using Python	-	09/07/2018	8	Employability	Programming skill
Introduction to Computer Science	-	21/01/2019	60	Employability	Computer skill
C programming with Linux	-	12/07/2018	60	Employability	Programming skill
Enterprise Resource Planning	-	12/07/2018	60	Employability	Computer skill
Artificial Intelligence	-	02/07/2018	30	Employability	Analysis skill
Python for Data Science	-	25/06/2018	60	Employability	Programming skill
Introduction to python	-	25/06/2018	60	Employability	Programming skill
CCNA Fundamentals	-	03/08/2018	10	Employability	To know about networks
Open source Tool on Testing	-	30/07/2018	2	Employability	To study about open source tool
Python Programming	-	20/08/2018	10	Employability	To improve programming skills
Android Mobile App Development	-	05/03/2019	5	Employability	To do project in androids
AWS Cloud Practioner	-	11/03/2019	5	Employability	To know about cloud And internet servers
Basics of Java Programming	-	18/01/2019	10	Employability	To improve programming skills
Programming In C	-	21/01/2019	60	Employability	To improve programming skills
Data Base Management System	-	21/01/2019	60	Employability	To design a database
Cloud Computing	-	21/01/2019	60	Employability	To know about cloud

					And internet servers
Social networks	–	25/02/2019	6	Employability	Projects related to Social networks
Introduction to Automata, Languages and Computation	–	21/01/2019	60	Employability	To improve skills on problem solving techniques
Introduction to Internet of Things	–	05/03/2019	3	Employability	To implement project on IOT
Machine Learning, ML	–	21/01/2019	60	Employability	Able to learn about algorithms and project purposes
Interior Design	–	14/09/2018	1	Employability	Interdisciplinary skill
SAFE Software	–	04/01/2019	1	Employability	Software Application
Structural Health Monitoring	–	06/02/2019	1	Employability	Software Application
Android programming	–	25/06/2018	5	Employability	Programming
Cloud infrastructure and services	–	09/07/2018	5	Employability	Programming
Hadoop (Horton works)	–	06/05/2018	5	Employability	Programming
Introduction to IOT	–	04/09/2018	5	Employability	Programming
Introduction to R tool	–	18/06/2018	6	Employability	ProgramminggProgramming
PYTHON Programming	–	02/07/2018	5	Employability	Programming
Business English Communication Skills	–	10/09/2018	5	Employability	Skill development
Strategic Management	–	08/08/2018	3	Employability	Skill development

and Innovation					
International Business Essentials	–	15/10/2018	2	Employability	Skill development
Analytic techniques for business	–	21/01/2019	3	Employability	Skill development
Social Entrepreneurship	–	12/02/2019	2	Employability	Skill development
Social Media Marketing	–	13/03/2019	3	Employability	Skill development
AutoCAD software	–	11/06/2018	10	Employability	Software Application
Adobe Photoshop	–	25/06/2018	4	Employability	Presentation skills
Google Sketch up	–	08/08/2018	6	Employability	Drafting Design skills
Revit Architecture	–	04/02/2019	10	Employability	Drafting Design skills
Lumion	–	18/03/2019	6	Employability	Software Application
Mobile Application Development	–	13/08/2018	5	Employability	Programming skill
ERP Systems SAP R/3	–	04/01/2019	8	Employability	Programming skill
Web Designing Tools	–	11/02/2019	5	Employability	Programming skill
Web Designing Tools	–	11/02/2019	5	Entrepreneurship	Programming skill
Core and Advanced Java Programming	–	18/02/2019	8	Employability	Programming skill

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Electrical Electronics Engineering (EEE)	12/06/2018
BTech	Electronics & Communication Engineering (ECE)	12/06/2018
BTech	Computer Science & Engineering (CSE)	12/06/2018
BTech	Information Technology (IT)	12/06/2018
BTech	Mechanical Engineering (MECH)	12/06/2018
BTech	Instrumentation & Control Engineering. (ICE)	12/06/2018
BTech	Civil Engineering. (CIVIL)	12/06/2018
Mtech	Power Electronics & Drives (PED)	12/06/2018
Mtech	Electronics & Communication Engineering (ECE)	12/06/2018
Mtech	VLSI & Embedded systems (VLSI)	12/06/2018
MBA	Master of Business Administration (MBA)	12/06/2018
MCA	Master of Computer Applications (MCA)	12/06/2018
BArch	Architecture	12/06/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	6403	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
No Data Entered/Not Applicable !!!		
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
Feedback plays a vital role to improve the performance of an Individual or a Group in Every Organization and Institution. Periodical feedback is obtained from the students in the progression of the teaching-learning process. All the students are informed to provide their feedback on the subjects taught, in the prescribed proforma given to them at regular intervals. This will be of great value to the Department to enhance the quality of learning. This feedback helps to understand the problems of students, syllabus coverage, effectiveness of teaching, etc. The feedback is shared with the respective teachers in a constructive manner so that further improvements can be achieved by the faculties in the teaching process. The feedback is collected at various levels during the academic session. The academic feedback is taken through online every month. Feedback is also obtained regarding the general facilities including Mess, Canteen, General hygiene and Cleanliness. The actions to problems of urgent /immediate nature are addressed by the authority immediately. The information regarding the programme satisfaction, lecture and lab sessions, facilities and other infrastructure are collected during the Quality Circle Meeting (QCM) with the students. The Action Taken Report of the QCM will be submitted to the Director cum Principal. Sri Manakula Vinayagar Engineering College thoroughly reviews the curriculum for every academic year. The Institution also collects the feedback on curriculum aspects and courses from different stakeholders such as the Students, Alumni, Parents, Academic peers, Faculty and Employers. The data are analyzed and their suggestions are considered and placed before the Academic Audit Committee for discussion and for possible incorporation in the curriculum. The feedback is analyzed and discussed in the Department Advisory Committee (DAC) and IQAC meeting with the stakeholders.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
No Data Entered/Not Applicable !!!				
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution	Number of fulltime teachers available in the institution	Number of teachers teaching both UG and PG courses

			teaching only UG courses	teaching only PG courses	
2018	862	205	246	45	291

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
No Data Entered/Not Applicable !!!					
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Yes. Student Mentoring System is adopted in the Institution. Mentoring of students is an important feature to render impartial service to all the students having varied cognitive level. A Mentor was provided to every student to look after his/her academic and psychological wellbeing and also monitors class attendance and performance. The counselling is done regularly (15 days once in a month). Roles of Mentor ? Mentors are assigned to monitor and guide the students. ? Mentors coordinate with the parents regarding the progress of the students. ? Mentors also keep track of the mentees' academic performance ? Mentors communicate with fellow faculty and promote mentees at the time of difficulty / opportunity. Benefits of a Mentoring System: ? Bridging the gap between the teachers and students. ? Creation of a better environment in institution, where students can approach teachers for both educational and personal guidance. ? Create awareness and provide support to students for attending and clearing GATE, GRE, CAT, ISRO, SAIL, NAL,HAL, NTPC, BSNL, DRDO, BARC, and other Govt. PSUs examinations. ? Motivation for higher studies and entrepreneurship. ? Guidance and support in academic performance and campus recruitment. ? Enhances the students' confidence by setting higher goals and encouraging them to attain their specific goals within the stipulated time bound.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4243	**291**	**1:15**

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
291	**291**	**28**	**28**	**53**

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last	Date of declaration of

				semester-end/ year-end examination	results of semester-end/ year- end examination

<div align="center">**No Data Entered/Not Applicable !!!**</div>

<div align="center">View Uploaded File</div>

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• Our institution is affiliated to Pondicherry University and the examinations were conducted by them. They follow single valuation for UG and double valuation for PG papers. Practices followed in the institute level for conducting examinations: • Based on the level of students, the questions were prepared in two sets, one for advance and one for slow learners (viz., analyzing the problems, formulating the problemsetc),the questions were prepared as per Bloom's Taxonomy (assigning low / high order thinking levels) • Besides University exams, the institute conducted periodical unit tests and model examinations, namely o First hour test – 3 days in a week o Internal test-1 , Internal test-2 and Internal test-3 o PreModel/Model Examination • 25 marks were allotted for internal assessment for a theory paper. Out of 25 marks 20 marks was awarded based on for the internal test marks and the remaining five marks was awarded for class attendance. Evaluation: • After completion of each internal test, pre-model and model exam, student progress report is sent to parents which consists of o Mark in each subject (Passed / Failed) o Attendance percentage and total number of working days o Counselor 's remarks about the student's academic progress and o His/her behavior in learning process • After every internal test, model examinations, faculties have explained the solution in the class which had enabled the students to perform well in the final examination. • The average marks obtained from the best two tests were chosen for the award of internal assessment marks. • Evaluation of Answer scripts was done by interchanging the papers with another faculty who had handled the same subject/Expert. • Retests when necessary are also conducted in special cases and managed separately. Quality Circle Meeting (QCM) will be conducted with students and staff members in the presence of HOD before tests and examinations. During QCM, queries and suggestions are collected from students to eliminate their difficulties in learning and expectations were fulfilled. Slow learners were given opportunity to rewrite the exams, they are closely monitored, and their parents are intimated about their ward's performance. The students who did not perform well are given extra care by conducting special classes. The concerned faculty handling subjects will take responsibility in coaching these students and making them clear the subjects with higher credit. Peer group teaching methodology is adopted. i.e. the student who are well verse in subject can explain the concept to the other students It is planned to form a group by mingling advanced, average and slow learners so that average and slow learners will study all the units with ease with the help of advance learners and the faculty Mnemonics and mind mapping are included as an innovative practice.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Institute is affiliated to Pondicherry University and follows academic calendar of Pondicherry University. Before the commencement of each semester institute prepares its own academic calendar in-line with university academic calendar. Based on Institute's academic calendar, department prepares its academic calendar showcasing events planned by the department. It has a standard procedure to plan and develop curricular, co-curricular and extra-curricular activities. Dates proposed by university for commencement and conclusion of semester, internal tests ,project reviews, feedback analysis and quality circle meeting schedules, various activities such as industrial visit, expert lecture,

seminars/ workshops/ conferences, Innovators day ,annual day, sports day and
department social programs etc are included in department academic calendar.
Based on the academic calendar, faculty members frame the course plan for their
subjects. The course plan includes describing course objectives of the subject,
teaching aids to be followed during the lecture sessions, methods to be adopted
for handling topics beyond the syllabus, and the outcome to be achieved for the
course at the end of the semester. This course plan will be verified by the
head of the department periodically to ensure whether syllabus will be
completed as per time schedule. Moreover the academic calendar will be
circulated among the students to make them aware of academic and other co-
curricular and extracurricular activities.

2.6 – Student Performance and Learning Outcomes

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

https://smvec.ac.in/departments

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
No Data Entered/Not Applicable !!!					
View Uploaded File					

2.7 – Student Satisfaction Survey

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

https://smvec.ac.in/feedback-form/

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
View Uploaded File				

3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Robotics and its automation	EEE	23/06/2018
Embedded systems and Raspberry pi based IOT	EEE	27/11/2018
Industrial Automation	EEE	01/09/2018
Hybrid Electric vehicle	EEE	22/12/2018
Recent developments in Solar panel and Batteries	EEE	27/02/2019

5G Mobile Phone Antenna Design(seminar)	ECE	29/11/2018
Aerospace EMC Simulation.	ECE	06/12/2018
Online(Webinar)	ECE	10/01/2019
Simulation of Electromagnetic Pulse(EMP) with SIMULIA CST Studio Suite	ECE	10/07/2019
Python Programming	CSE	20/05/2019
Java Programming	CSE	06/08/2018
Android Development	CSE	17/12/2018
Automated Testing	CSE	11/07/2018
NI graphical system design platform for Industrial IOT application	ICE	19/11/2018
Trouble shoot on electronic equipments	ICE	10/12/2018
Machine learning in IOT	ICE	21/01/2019
VLSI Design	ICE	20/02/2019
Workshop on IPR	MECH	10/01/2019
Automotive technologies	MECH	02/04/2018
Rapid Prototype	MECH	05/10/2018
Workshop on 'Non Destructive Testing	MECH	09/11/2018
Workshop on CNC Machining: Turning and Milling	MECH	11/02/2019
Technical seminar 'Robotics in Manufacturing '	MECH	08/03/2019
Workshop on Career Development	MECH	02/02/2019
Seminar on Artificial Intelligence	MECH	05/04/2019
Software Testing	IT	03/08/2018
Awareness on start-up schemes	IT	22/12/2018
Introduction to Intellectual property Rights	IT	10/01/2019
Machine Learning Concepts tools	IT	18/01/2019
Patent Law for Engineers and Scientists	IT	05/02/2019
India First Leadership Talk Series- Anand	IT and CIVIL	08/01/2019

Mahindra		
Art of Decision making	CIVIL	19/03/2019
Scripting Language	MCA	19/01/2019
Network	MCA	02/02/2019
Programing language	MCA	20/02/2019
six sigma in practice	MBA	26/05/2019
The role of HR in Manufacturing	MBA	10/10/2018
Marketing Strategy in Global scenario	MBA	07/12/2018

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
View Uploaded File				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
View Uploaded File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
20	12	12

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Mechanical	0

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

Type	Department	Number of Publication	Average Impact Factor (if any)
No Data Entered/Not Applicable !!!			
View Uploaded File			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
No Data Entered/Not Applicable !!!	
View Uploaded File	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in	Number of citations excluding self

				the publication	citation
No Data Entered/Not Applicable !!!
View Uploaded File

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!
View Uploaded File

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
No Data Entered/Not Applicable !!!
View Uploaded File

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!
View File

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!
View File

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
No Data Entered/Not Applicable !!!
View File

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!
View File

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the	Name of the	Duration From	Duration To	Participant

linkage	partnering institution/ industry /research lab with contact details			
No Data Entered/Not Applicable !!!				
View File				

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
500	**449.35**

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
No Data Entered/Not Applicable !!!	
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Library Management Suite	**Partially**	**1.0**	**2008**

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
View File			

 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1050	15	15	2	885	50	90	100	25
Added	0	0	0	0	0	0	0	100	0
Total	1050	15	15	2	885	50	90	200	25

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

200 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
SMVEC Student Elite Portal for all subjects	http://210.212.229.226/
Computational Fluid Dynamics Laboratory YouTube Channel	https://www.youtube.com/playlist?list=PLRuuYmz0Py9_VBgp1p4h84RaVNIelyWV-
Computer Aided Engineering Laboratory - CATIA YouTube Channel	https://www.youtube.com/playlist?list=PLRuuYmz0Py9_yhl3gg0XXlrb_p2VFDDya
Computer Aided Engineering Laboratory - ANSYS YouTube Channel	https://www.youtube.com/playlist?list=PLRuuYmz0Py9_gyYpOLwf5pM_yvM3xYnr0
GATE Solved Question Papers with Answers	https://sites.google.com/site/rhkmech/smvec/gate-resources
Placement Resources- Technical Keywords from various areas of interest	https://sites.google.com/site/rhkmech/smvec/placement-resources
HaritaTechserv Ltd - Placement Resources	https://sites.google.com/site/rhkmech/smvec/catia-course
Basic Electrical and Electronics Engineering Laboratory Manual	https://ganeshphd4u.weebly.com/uploads/7/3/4/0/7340277/bee_lab_manual_new.pdf
Smart Grid Material	https://ganeshphd4u.weebly.com/uploads/7/3/4/0/7340277/ee_e19_smart_grid.pdf
Electrical Machines -1 Material	https://ganeshphd4u.weebly.com/uploads/7/3/4/0/7340277/3.em-1_unit_i_elite_format.pdf
Energy Engineering Material	https://ganeshphd4u.weebly.com/uploads/7/3/4/0/7340277/energy_engg_unit_1_updated_2018.pdf

Electrical and Electronics Engineering Material (for MECHANICAL students)	https://ganeshphd4u.weebly.com/uploads/7/3/4/0/7340277/mech_eee_unit_1_transformer.pdfhttps://ganeshphd4u.weebly.com/uploads/7/3/4/0/7340277/mech_eee_unit_1_transformer.pdf
Digital Library	172.17.77.77

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
175	151.9	125	101.26

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

LABORATORIES: Stock verification of equipments and annual maintenance of existing equipment is carried out by the concerned department. The stock verification is same also cross verified by the other department and report to be submitted to Principal. If any new equipment wants to be added, then concern Head of the department proposes the details with quotations for approval by the Principal and Chairman of the college. Most of the department adds new equipments to meet RD activities in addition to academic requirements. LIBRARY: All the departments can give the proposals for additional reference books and text books for improving library. The proposals are submitted for approval by the principal and Chairman of the college. SPORTS COMPLEX: Every year inter collegiate games NEXUS is conducted in our campus by involving about 20 colleges in Puducherry. In addition to sports and games competitions, our college has well equipped gym facility and sports kits. Many of our students participate in the various national and international competitions held around the nation. COMPUTERS: College has more than 1000 computers with latest configuration to enrich student's knowledge. With the recent norms of AICTE and NBA requirements every department has established computer centre and project lab. All the laboratories, faculty rooms, library and hostel have Wi-Fi connectivity. CLASS ROOMS: College has sufficient numbers of class rooms with ICT facilities. The classrooms boards and furniture facilities are utilized regularly by the students the maintenance and the cleaning of the classrooms are done with the efforts of the maintenance staff.

https://smvec.ac.in/wp-content/Files/ProcedurePolicies.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
No Data Entered/Not Applicable !!!			
View File			

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

Name of the capability	Date of implemetation	Number of students	Agencies involved

enhancement scheme		enrolled	
No Data Entered/Not Applicable !!!			
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
No Data Entered/Not Applicable !!!					
View File					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
20	16	2

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
No Data Entered/Not Applicable !!!					
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
No Data Entered/Not Applicable !!!					
View File					

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

Items	Number of students selected/ qualifying
No Data Entered/Not Applicable !!!	
View File	

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

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)						
Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
View File						

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

SMVEC's Student Council representatives actively participate in various activities. They help in coordinating all the events related to academics and other co-curricular extra-curricular activities, as per the directives of teaching faculty. The student council plays a vital role in departmental activities such as organizing industrial visit, implant training, symposiums and workshops. The council members and all the other students deliberately involve in their Department newsletter preparation, magazine preparation and in editorial committee. The students involve themselves in events such as Independence day, Republic day and various club activities. Each club has several students as members who takes the initiative in organizing exemplary exposure for their deeds. Following is the narrative of functions and events conducted by various Committees: Alumni Association: Every department attends to the coordination and liaison activity with alumni through the nominated students. Anti-Ragging committee: Student members assist the institution in implementing rigid anti-ragging measures so that the institution becomes ragging-free campus. Grievance and Redressal Committee: The matters of harassment and suppression of any single individual is being handled by Grievance and Redressal Committee. Student members can help other students to present the grievance in case the victim wants the representation in absentia. Extension Activities: Any education is incomplete without social awareness. "NSS Committee" is active in carrying out different activities such as Blood donation Camp, Swach Bharat Abhiyan, Yoga day, Tree plantation etc. Board of Studies: The student nominees play an important role in providing the feedback on behalf of all the students in varying as the length and duration of the syllabus, the relevance of the topics, the requisite to include any new topics, etc. The Board of Studies is supported by feeder committees with the DAC (Departmental level Academic Council) and the DDC (Departmental Level Development Committee). These bodies have adequate representation of students who provide feedback on the syllabi and its implementation. Library Advisory Committee: The Library Advisory Committee members meet every month once to discuss the availability of books, periodicals and journals and procurement of new titles. Student representatives from all the branches are nominated as members of the library. Opinion of the students on matters related to adequacy and availability of books, e-resources, new titles and other facilities are considered. Hostel Advisory Committee (Boys Girls): The Boys' and Girls' Hostels have separate committees. The members including student representatives meet once a month to discuss issues as per agenda and initiate remedial actions. The various subcommittees in each of these hostels are Food Committee, Maintenance Committee, Discipline Committee, etc. Transport Advisory Committee (Girls Boys): The Transport Advisory Committee including student representatives meet once a month to sort out the grievances like adequacy of seating, timings, extension of service, providing additional stops, etc. Canteen and Cafeteria Committee: Members of the committee including student representatives meet once a month to discuss various points related to food quality, taste, hygiene levels, pricing of items,etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?
Yes
Alumni are one of the main stakeholders of the SMVEC. They contribute immensely to the development of the College in multiple dimensions. The Alumni Association was formed in the year 2003.The alumni meetings is conducted periodically, where the alumni from different branches of the under graduate 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 honoured 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. Alumni have also contributed immensely as members of DAC, guiding delivering Guest lectures, offering Internship, assisting in Placement, organizing Industry visits and students to get admissions into reputed Universities at abroad.Their involvement helps to increase the placement percentage of our institution continuously. Successful entrepreneurs from the alumnus are invited to talk on their success stories at various occasions of the Institute. Alumni are providing necessary support and encouragement to develop quality standards that could be used to enhance and improvise the quality of imparting education to the students. Alumni are providing mentoring services to the students of the College by holding one to one interaction with the students. They have become influential in making the students to understand the industry institute gap and also the way to plan and shapeup one's own career in right direction. Alumni from local chapters are maintaining rich alumni database with all the details that have been influential in making the students to understand various business opportunities and providing all the support required for preparing them to become entrepreneurs and to know the current dynamics of the industry. 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.

5.4.2 – No. of enrolled Alumni:
2034

5.4.3 – Alumni contribution during the year (in Rupees) :
0

5.4.4 – Meetings/activities organized by Alumni Association :
Every year two alumni meetings are conducted in all the departments. On Saturdays, alumni working in various reputed companies are invited to conduct activities like mock interview, resume corrections and technical training to the final year students for their placement. Moreover, We conduct training sessions on industry practices and professional ethics. Regular Interaction with unemployed alumni students will be arranged for their career guidance.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)
The Institution excels in academics for over 20 years due to the continuous review and improvement of Quality Policies and plans. Decentralized governance model The decentralized governance model is evident in every sphere as each department/faculty functions as a separate sub-unit, in deciding and

implementing the student-centric programmes and activities. Director, as the Head of the academic and administrative bodies monitors and controls all the activities in the college. The Management is participative and regular meetings are convened among the Management members, Principal, faculty and the students in implementing efficient plans. All the departments are requested to present their Annual Action Plan at the beginning of every academic year with a clear cut road-map to deliver the same. The matters at the department level are discussed by the HOD with the faculty team in consultation with the Principal. This gives the faculty an enormous sense of belonging and pride in the institution and this brings out the best in them. Get together meeting between staff and Governing Council Faculty Governing Council interaction meeting Once a year, a get together meeting between staff and Governing Council members is indeed a moment to cherish, wherein all matters of importance, including the strategic ones are discussed with an equal opportunity for all the staff members to express their constructive suggestions to the council. The meeting of the President with the staff at the beginning of every semester is indeed a reflection of the participative style of the Management.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	• UG and PG students are admitted through Centralized admission committee (CENTAC) • 50- Government quota seats • 50 -Management quota seats through common entrance test for Pondicherry private engineering colleges (CETPPEC) • All clear students are motivated to get the scholarship of Pondicherry government under "Perunthailaivar Kamarajar Scheme".
Industry Interaction / Collaboration	• Industrial visits and internships for students to know the industrial arena • Guest lecture workshops for students is conducted by resource persons from industry • MoUs with industries through which training, Product development consultancy work is done. • Students participate in national level competitions conducted by renowned industries • Faculty training programs in recent technologies are also organized with industrial experts.
Library, ICT and Physical Infrastructure / Instrumentation	? Library/ICT • Computers are provided with Multimedia facility in central library where students can access all kinds of e-journal. o http://ieeexplore.ieee.org o http://infotrac.galegroup.com/itweb/inmanakula • Digital library is provided in central library where users can access kinds of e-resources on campus. • The learning

	resources centre is open 12 hours a day for use and will be extended on demand. The library contains the Reference Section with wide variety of resources, a quiet study area, the office, and a photocopier room. There is a study area with computer facilities, and a group study/reading room. Libraryaims to offer focused provision for the subjects in which the college admits mature undergraduates, postgraduates and research programme. The collection comprises textbooks, general reference material, question bank and career-oriented resources. • Video Course: NPTEL can accessed though Digital Library Infrastructure • Our college is renowned for its very good infrastructure with clean and serene environment. CCTV cameras cover the whole campus for better survivelance • Class rooms are equipped with LCD Projector to provide better learning environment. • Labs are upgraded with recent cutting edge technologies to enhance our students practical knowledge
Research and Development	? The performance appraisal of the faculty has a research component which includes innovative products developed, Grants received from the funding agencies consultancy works. ? Faculty are encouraged to publish papers in renowned international conference and international journals with good impact factor. ? Well-equipped research laboratories are provided with recent and high end licensed software tools that enables the students to do software and hardware Projects
Examination and Evaluation	• Continuous evaluation is done through internal assessment tests, assignments, presentations, projects and end seminar examinations etc. • Examination committee ensures smooth conduct of examinations. • Internal Exam cell coordinators ensure whether question paper covers course outcome and all knowledge levels of the specified syllabus for each internal assessment exams • Evaluation of answer scripts is done by the concerned faculty and it is verified by the internal exam cell committee. Transparency is maintained in evaluation process Student Evaluation Student academic performance is

	evaluated through internal assessment tests, pre-model exam and model exam as per the schedule given in the Academic calendar is conducted. At the end of the semester the COs attainment calculations are done to analyze the learning levels of students in Internal Examinations, Assignments and End Semester Examinations. Faculty evaluation • Quality evaluation of faculty by the students is done through student's online feedback thrice in a semester for both theory and practical subjects. • Lecture classes are monitored by Senior Professors and the HOD of the Department. They give constructive comments to improve the quality of teaching - learning process. • Counselling will be provided by the respective HOD for those faculty members who have secured low scores and negative comments in the feedback. This motivates them to improve their skills and abilities. • If required, training / orientation programmes are conducted by professional experts to master the skills of the faculty members in the hint of teaching, thus improving the efficiency of teaching-learning process. • Alumni feedback and parents inputs are also be considered for improving quality in teaching.
Teaching and Learning	The faculty are oriented towards Outcome Based Education (OBE) and are actively utilizing the OBE to cater the learning needs of students by innovative way. The SEED effective content delivery program is given to faculty members. Faculties handling programming subjects are linked with Infosys campus connect, ICTACT faculty workshop, Wipro Mission, 10X. for effective teaching. Elite web portal is available which consist of study materials , PPTs for aiding the students in better learning
Curriculum Development	Our institution is affiliated to Pondicherry University and hence follows Pondicherry University Curriculum. Generally, university curriculum maintains the balance in the composition of basic science, humanities, professional courses and their distribution in core and elective. To a major extent our curriculum helps in attaining the POs and PSOs, however some components are

	not included in the curriculum provided by the Pondicherry University. In order to fill the curricular gaps our department makes additional efforts to impart such knowledge by co-curricular, extracurricular and extension activities which is beyond the syllabus content. Our Faculty members involved in Curriculum revision and they attend the BOS meeting to share their views regarding revision if any needed in syllabus.
Human Resource Management	• Personal files of the faculty are maintained. • Performance appraisals are regularly collected and analyzed. • The house training programmes for faculty are arranged with the help of resource persons. • Biometric attendance system ensures regularity and fair assessment. • The college has computerized administrative system. • Incentive to the faculty members are provided for the publications. • All leave rules are followed as per norms. • Immediate attention is given for the prompt feedbacks and grievance.

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

E-governace area	Details
Planning and Development	Sofware developed by Sri Manakula Vinaygar Software Solutions
Administration	Sofware developed by Sri Manakula Vinaygar Software Solutions
Finance and Accounts	Sofware developed by Sri Manakula Vinaygar Software Solutions
Student Admission and Support	Sofware developed by Sri Manakula Vinaygar Software Solutions
Examination	Web portal provided by Pondicherry University

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				
View File				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional	Title of the administrative	From date	To Date	Number of participants	Number of participants

development programme organised for teaching staff	training programme organised for non-teaching staff			(Teaching staff)	(non-teaching staff)
No Data Entered/Not Applicable !!!					
[View File]					

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
[View File]				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	28	0	9

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Transportation Facility • Fee Concession for Wards of Faculty • EPF • Health Care Benefits • Maternity and medical leave Benefits • Registration Fee for conferences and seminars • Support for faculty to pursue higher studies • Skill upgradation program	• EPF • Support for Higher study • Transportation Facility • Health Care facility • Fee Concession for Wards • Salary advance • Maternity and medical leave Benefits	• Career training given to students to face placement drive confidently • Support to avail various scholarships provided by government and NGOs • Emergency Medical care • Counselling facility • Fee concession/fee waiving options for poor and needy students

6.4 – Financial Management and Resource Mobilization

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

Financial Management: The institute regularly follows Internal external financial audit system. The institutional accounts are audited regularly by both Internal and statutory audits. Minor errors of omissions and commissions when pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future. Fund Mobilization: Fund mobilization is through tuition fees paid by students and through SMVE Trust. Funds received through government and Non-government bodies for carrying out research, conducting training programs.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		

6.4.3 – Total corpus fund generated

230000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Pondicherry University	Yes	IQAC
Administrative	Yes	Pondicherry University	Yes	IQAC

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

1. Feedback on improving curriculum 2. Suggestions for improving the students' performance 3. Support for Internships Placements

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

1. Trouble shooting, system maintenance training are given to supporting staffs. 2. Participation in the training programmes for new software and equipment. 3. Supports for higher studies

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

• Initiatives are taken to publish in the peer-reviewed journal • More proposals are submitted for funding agencies • Continuous assessments of POs and PSOs based on the results of every student in internal and external examinations.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Interpersonal Effectiveness	04/08/2018	04/08/2018	250	0

Cancer awareness	29/08/2018	29/08/2018	75	50
Seminar on "Environment and Tamilan Future"	14/09/2018	14/09/2018	75	50
Women Health	18/09/2018	18/09/2018	150	150
Lecture on "Indian Constitution and Human Rights – Equality of Men and Women"	05/11/2018	05/11/2018	150	150
Women's Mentoring Programmes	13/11/2018	13/11/2018	115	0
Community Health Programmes through Primary Health Center	14/11/2018	16/11/2018	40	0
Women's mentoring Programme	15/11/2018	18/11/2018	1190	0
Seminar on "Nutritious food habits"	09/01/2019	09/01/2019	150	150
Awareness Generation Program for Rural Women (through Nila FM)	18/02/2019	21/02/2019	100	15
International Women's Day	08/03/2019	08/03/2019	150	0
Entrepreneurial skills and healthy Lifestyle	08/03/2019	08/03/2019	240	0
Health & Hygiene for Woman	08/03/2019	08/03/2019	10	0

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

Percentage of power requirement of the University met by the renewable energy sources
50 of power requirement is to be met by Solar Energy (New Proposal-350KW) Awareness Program on Energy Consumption of Electrical Appliances are conducted

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries

Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Rest Rooms	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							
View File							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
College Prospectus for students	11/06/2018	Our college prospectus contains the details of admission procedure, credentials of the college, achievements of our students, infrastructure facilities available, placement records, etc,
Academic calendar	28/05/2018	For every semester academic calendar will be distributed to the students which contains calendar for that academic year, credentials of our college, rules and regulation to students to follow in our campus. Students are required to follow the dress code prescribed by the Institute.
Department Newsletter	03/12/2018	Every academic year two digital newsletter and from all the departments will be circulated among the parents students, other academic persons to recognize our students achievements.
Service rules	14/05/2018	College has been implementing Service rules and code of conduct since its inception.

| | | | These are printed books supplied to all the employees in which rules are approved by Governing Body initially. Revised rules are approved by Governing Body meeting held in 2017-18. The book directs the individual clear direction to follow code of conduct. |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
[View File](#)			

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

• Rain Water Harvesting We have already implemented rainwater harvesting mechanism in the campus. However, Waste water is recycled and used for gardening. • Pedestrian friendly roads: The campus has road facility which is always kept clean. Lush green and flowering plants/ trees are planted for ambience and creating a wonderful microcosm. • Tree plantation The College has been nurturing a large number of plants and trees which can absorb carbon dioxide. • Power Utilization using Solar Energy (Proposed) Our college has planned to install solar powered generation using PV panels with a capacity of 5 kWh, which is used for utilizing lights and fan for the entire campus • Movement of Vehicles not permitted in the campus-reducing in CO2 emission Lowest possible emission and pollution free environment, thereby neutralizing the carbon effect. Other than this, the green lawns and plantation is also helpful in the fixation of carbon content present in the environment and helps in making pollution free environment • Digital office (Paperless communication) The institute is using sophisticated software for all academic progress and also to send information to officials and to their parents. Different widely known social websites and mails such as gmail, WhatsApp etc. are also being used to transfer the information, circulars and notices. • Plastic-free campus All types of plastic covers which can harm the environment are strictly banned from our campus. Any stray plastic bags or other objects observed will be disposed properly by the housekeeping staff and also by the students. • Herbal Garden Our management showed keen interest in planting many herbal plants • Sapling by students of NSS Club Our college NSS club organized many programs for sapling of plants inside our campus. Different plants are nurtured with care. The College drives into the space for trees, Garden and open spaces to protect the campus in GREEN.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice I Title of the Practice: CAPACITY BUILDING OF STUDENTS ORIENTED TOWARDS PROFESSIONAL SKILL ENHANCEMENT Objective of the Practice follows: • Improve the professional skills of students • To make the students industry ready • To fill the gap between industry and curriculum. The context: The following problems identified and focussing to rectify in the Technical club by proper motivation. Recent studies focus that the engineering students need more employability skills. In addition to that, less no. of the students prefer to pursue higher studies and do research in the relevant field. The practice: • Pre-Placement training is imparted to students. This training includes training

on soft skills, programming skills, aptitude skills and Technical skills to match with industry needs and to achieve their short term and long term goals. Trainers are hired from reputed training companies who impart training and evaluate the students accordingly. • Various placement activities like resume preparation and correction, aptitude training and mock interview are being conducted by our alumni • Skill development programs, communication skill programs and new tools demonstration are imparted to students at regular intervals. • Value added courses, Hands on training, various club activities are provided to the students • Our Alumni is providing guest lectures, seminar, workshops and motivation classes for the final years and pre-final year students for their bright future. • Conduction of symposium Evidence of success: ? Evidence of success performance and Review of results are given below. ? The students placement record is good amidst the situation prevailing in the country Best Practice II Title of the Practice: INNOVATOR'S DAY Objective of the Practice follows: • It encourages the students to come up with new ideas and projects to the innovation of our country. • It improves the practical knowledge of the students • Motivating the students to learn new tools and technologies The context: The following are the issues which motivated the college to conduct the Innovators day. ? To come up with new ideas/new projects ? To increase the placement count of the students ? Learn new technologies and need of inter-college communication The practice: ? Projects from students of different colleges in our country are invited for the Innovator's day which improves the inter-college communication. ? Industry experts will evaluate the projects. ? Among the submitted projects, the best project will be identified and awarded with cash prize and awards. Evidence of success: Evidence of success performance and Review of results are given below: ? Successful project outcomes. ? Placement through learning new technologies. ? Won awards and cash prizes in various project contests organized by industries. ? Better performance in the practical classes

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://smvec.ac.in/wp-content/uploads/2020/03/Best-Practices.pdf

7.3 – Institutional Distinctiveness

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

The primary objective of the institution is the pursuit of Academic Excellence and Placements. The institute also aims at stimulating the learning skills with a focus on futuristic demands, vitalizing teaching-learning process. The college provides the best amenities required for students to enhance their Technical skills, Academics, and Extra-curricular activities and brings out the best in them. The college is ranked as the 1st (first) Engineering college in Pondicherry. Our college produces more gold medalist and university rank holders. If the students win cash award in any competition at any college, the equivalent amount of cash prize is given by the management to them. Our placement cell plays an important part in our institution, ensures that the students are well trained and prepared to face their campus interviews effectively. Training is imparted to the students from their second year in soft skills and technical skills. Separate training institutes are welcomed to train our students on the real time requirements. Various conferences, guest lectures, workshops, summit, celebrity chats are organized throughout the year, by which the students are exposed to the outside world work ethics and all the recent developments and innovations. Students are encouraged to develop their own projects that are funded by both the State and Central Government of India to help them in exploring their creative ideas. The Institution has bagged more projects from DST and Texas Instruments.The Institute is distinctive in

providing a global platform to students' teams to participate in national and International competitions like Testimony, Encode, Innovate, IEEMA etc. The institution has provided the best possible facilities in terms of infrastructure for teaching, learning and sports activities to make a student dynamic in all dimensions. The Classrooms, Laboratories, Smart classrooms, Group discussion halls, Library, Solved Question bank for all the subjects and Administrative office are highly conducive to the overall academic environment. Beyond this all the innovations are mentioned below. Innovations in Attendance system: Manual faculty and students attendance system is replaced by computerized system. Innovative Infrastructure Facilities: ? Establishment of departmental libraries. ? Establishment of computer laboratories ? Well equipped science labs. ? Internet connectivity in different segments of the College. ? Automation in Library. ? Smart classes with computer Research Development - Support to the faculty for doing Ph.D is provided by the Management - College conducts intercollegiate national level technical symposium, design and fabrication of working model contest every year. Digital delivery of Courses All classrooms are digitally enabled, with projector and Wi-Fi connectivity. Most lectures are through power point presentations uploaded in Intranet and available for students at any point of time. Beyond Syllabus Learning Learning is encouraged through workshops, conferences and guest lectures, industrial visit and project contests. Through this, students are learning beyond the syllabus. Emphasis on Project Based Learning Several external trainers are brought in to expose students to explore in new technologies and areas. Since learning new technologies resulted in our students internships and job offers in different companies

Provide the weblink of the institution
https://smvec.ac.in/

8.Future Plans of Actions for Next Academic Year

• To get Deemed to be University status and become SMART University • To get Autonomous status for the institution. • To aim at achieving the highest rank of A plus in the forthcoming NAAC accreditation process • To create the centre for research in various departments • To set up a training centre in the campus to provide international certification courses to the students. • To strengthen Industry-Institution interaction cell • To increase more number of patents filed every year. • To be introduced innovative new courses like Bio Medical Engineering and Mechatronics Engineering • Planned to conduct Conference on the topic "Cyber Digital Security" • Planed to organize various workshops / hands on training based on the industrial needs