Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT**
Name of the head of the Institution	**THIRUMALESHWARA BHAT**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**0820-2589182**
Mobile no.	**9449330555**
Registered Email	**principal@sode-edu.in**
Alternate Email	**iqac@sode-edu.in**
Address	**Vishwothama Nagara, Bantakal**
City/Town	**UDUPI**
State/UT	**Karnataka**
Pincode	**574115**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. Sudarshan Rao K**
Phone no/Alternate Phone no.	**08202589183**
Mobile no.	**9448252890**
Registered Email	**iqac@sode-edu.in**
Alternate Email	**sudarshan.mech@sode-edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://sode-edu.in/associations/quality-assurance-cell/

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://sode-edu.in/institute-academic-calendar/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.13**	**2019**	**20-May-2019**	**19-May-2024**

6. Date of Establishment of IQAC	**01-Aug-2015**

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
Faculty Development	**16-Jul-2019**	**80**

program	3	
FDP on VLSI Chip Design and Verification using Mentor Graphics EDA Tool for E&C department faculty members	22-Jul-2019 2	25
Session on The Significance of Intellectual Property Rights for Entrepreneurs and Academia for SMVITM faculty members	06-Sep-2019 1	60
Workshop on Recent Developments in Smart Materials & MEMS for mechanical engineering faculty and students	20-Sep-2019 1	45
Hands-on Workshop on Usage of Virtual Lab for civil engineering students	20-Sep-2019 1	35
Guest Talk on Renewable energy and Energy conversion for civil engineering students	25-Sep-2019 1	70
Three days hands-on workshop on	03-Oct-2019 3	80
Three Day Workshop on Android Application Development for CSE students of SMVITM	04-Oct-2019 3	35
Interaction with Dr. L N Seshagiri, Professor, Government First Grade College Jayanagar, Bangalore regarding the role of IQAC in quality enhancement after NAAC accreditation	15-Oct-2019 1	24
National Level Student Convention/Project Exhibition on Industrial Internet of Things (IIOT	24-Oct-2019 1	150
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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
Dr. Sudarshan Rao K	Student Project	KSCST, Bengaluru	2019 180	6000

Mr. Ravinarayan Rao	Student Project	SCST, Bengaluru	2019 180	6000
Mr. Kiran N Bhat	Student Project	SCST, Bengaluru	2019 180	6000
Dr. Sachin S Bhat	TEQIP	TEQIP	2019 365	100000
Mr. Rohith Prakash Veigas	TEQIP	TEQIP	2019 365	20000
Mr. Sunil Haldankar	Student Project	KSCST, Bengaluru	2019 180	5500
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	**4**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

Submitted Self Assessment Report for the accreditation by NBA for UG programs of CSE, ECE and ME

Initiated Outcome Based Education in the teaching learning process

Introduced technology like Google classroom online class, you tube videos etc.,

Implemented different surveys like Student satisfaction survey, Graduate survey

Lab to land projects like Foot operated hand sanitizer, Foot operated hand washer, Contact less hand sanitizer, Mobile stand for class room video capturing developed in the institute during the pandemic Covid 19

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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
Accreditation by NBA	Submitted Self Assessment Report for the accreditation by NBA for UG programs of CSE, ECE and ME
Implementing Outcome Based Education	OBE implemented and CO, PO and PSO of the programs were assessed
ICT based teaching learning process	Implemented ICT based teaching like Google Classroom, YouTube videos, PPT, online class
Surveys from the students and graduates to know the effectiveness of TLP	Implemented different surveys like- Student satisfaction survey, Graduate survey
Increasing the frequency of feedback	Implemented feedback collection twice in a semester- Formative and Summative feedback
Lab to land projects	Following projects developed in the institute during the pandemic Covid 19 • Foot operated hand sanitizer • Foot operated hand washer • Contactless hand sanitizer • Mobile stand for class room video capturing
Industry mentoring	ANANYA SAP virtual volunteering by industry experts
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	No
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)	An indigenous (Developed by the institution itself) MIS is adopted in the institution which is an outcome of the research culture and acumen of the staff of the college. It is put to use for administration, student related activities and several operational modules are built into the system. It includes: Student Profile: Details of

the student such as address, contact details, previous years' academic records are maintained. Daily attendance entry: This enables identifying irregular students in the classes and the information to this effect is passed on to the parent/counsellors by the TG/FA for remedial action. Internal assessment and assignment marks entry: Progress of a student is monitored and the slow learners are identified. So that the deserving students are given with additional guidance. This has given a thrust to the CIE of the institution. Leave transaction for Faculty and staff: Leave the transaction process is streamlined so that the whole process has become simple and effective with alternative arrangements for classes are clearly deciphered. Semester exam invigilation duty allotment: Whole invigilation allotment system has become systematic and timesaving. Student Feedback collection and analysis: The process has become much faster with regard to feedback collection and report generation. Confidentiality of the feedback and reports are maintained.

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

The institute is affiliated to Visvesvaraya Technological University, Belagavi (also approved by AICTE, New Delhi, recognized by the Govt. of Karnataka). It being an affiliated institution, the curriculum is prescribed by the university. The institute has developed well defined plans for the effective and efficient implementation of the curriculum. The IQAC of the college is effective in executing the action plans for the implementation of the curriculum. IQAC prepares an academic calendar of events covering various academic, co-curricular and extracurricular activities for the entire semester and also ensures effective implementation of the same. In the beginning of the semester, the institution uploads the calendar on the website of the institution and accordingly the departments prepares department calendar in tune with the institute calendar and is displayed on the dept. notice board. In addition to this, subjects are allotted to the respective faculty member well in advance which will help them to properly plan for course delivery depending on the academic calendar. Faculty members are required to maintain the lesson plan which contains the details of plan for complete coverage of the syllabus along with details of dates of actual completion of the course contents. These details are to be duly signed by the HOD to ensure that, classes are being conducted as per the plan. In addition to the feedback (formative & summative)

taken during the semester, students are allowed to make observations on teaching (content, style, methodology) during class committee meeting. Thereby they contribute to the improvement in effective delivery of course contents. We in the department organize various supplementary activities and methods used to identify the extent of compliance of the university curriculum for attaining the program outcomes: The faculty are aligned towards Outcome based Education (OBE) and are actively utilizing the OBE to serve the learning needs of students by innovative way. For effective delivery of the curriculum, faculty members make use of innovative teaching learning processes including seminars and workshops based on the curriculum, audio visual mode of teaching, study tour, use of ICT based teaching etc. The curriculum is strengthened and supplemented by value added and certificate courses NPTEL. The institute provides plenty of opportunities and offers relevant courses to develop the skills and practical knowledge through collaborative learning, professional societies, hands on training, workshops, guest lectures, industrial visits etc. Advanced learners are provided with the additional reading material, books and are involved in various club activities, dept. clubs and paper presentations to strengthen their knowledge whereas remedial classes are conducted for slow learners. Institution promotes faculty members to attend orientation programs, seminars, conferences FDP's and encourages research activities for enriching their knowledge.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
NPTEL	Nil	01/07/2019	90	EMPLOYABILITY	SUBJECT DATE
CATIA	Nil	29/07/2019	15	EMPLOYABILITY	DESIGN SKILL
ADD-ON COURSE ON C AND OpenMP Programming	Nil	11/02/2020	3	EMPLOYABILITY	PROGRAMMING SKILL
Analysis of steel structure through Cype CAD software	Nil	19/10/2019	1	EMPLOYABILITY	DESIGN SKILLS
Analysis of steel structure through Cype CAD software	Nil	17/02/2020	2	EMPLOYABILITY	DESIGN SKILLS

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	CSE	01/07/2019
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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	Programme Specialization	Date of implementation of

CBCS		CBCS/Elective Course System
BE	CVE	01/08/2019
BE	CSE	01/08/2019
BE	ECE	01/08/2019
BE	ME	01/08/2019

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

	Certificate	Diploma Course
Number of Students	132	Nil

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
Entrepreneur awareness camp	23/09/2019	90
Entrepreneur awareness camp	21/10/2019	75
TCS Ninja company specific training	27/07/2019	70
Skilling engineers for professional success	15/07/2019	49
Campus to corporate	23/01/2020	250
Campus to corporate	05/08/2019	256
Zestech- Janis programme	13/08/2019	363
Certificate programme	03/09/2019	267
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	CVE	44
BE	CSE	112
BE	ECE	90
BE	ME	98
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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
The institution collects feedback on curriculum aspects and teaching and learning process from different stakeholders such as students, faculty, alumni, parents and employers. Once the feedback is analysed and valuable suggestions given were considered and necessary actions was executed. The curriculum aspects suggestions will make notice to the university to possible changes in the course structure for the next curriculum regulation. The institute follows a continuous review system of the curriculum in that aspect, the institute established an IQAC. The IQAC look in to the quality sustenance and enhancement measures to ensure the effective development of curricula. The institute has been organizing Faculty Development Program every year to enhance the professional competency and teaching pedagogy of the faculty. Curriculum is enriched through Technical talks, industry interaction, workshops, mini projects, industry visit, internships and conferences. The Institution would like to include the following Curriculum Aspects which enrich the curriculum: 1. Choice Based Credit System to learn core elective courses, professional elective courses and open elective courses offered across the departments. 2. Value added courses. 3. Courses on communication skills / Professional ethics / Environmental Engineering, and Employability Skills. 4. Hands on training and virtual lab in many laboratory courses thereby stimulating creativity and innovation. Faculty feedback from the students for the respective course is taken twice in a semester on various teaching/learning aspects and it is analysed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements. Course exit feedback and program exit feedbacks are taken to analyse the understanding capability of the students. Graduate survey are taken from the final year students at the end of the program for improving infrastructural facilities. Faculty feedback on curriculum for the each scheme is taken and are being analysed and suggestions are communicated to the University. Feedback from Alumni is obtained on the level of attainment of programme educational objectives, programme specific out comes and programme outcomes are analyzed and corrective actions are taken. The institution has alumni association and it conducts annual Alumni Meet, in which suggestions and feedback is received from Alumni and as well as whenever any alumni visits the college, feedback is taken. Feedback from the parents are taken by interacting with them during Parent Teacher Meet. All the feedback obtained is analysed and corrective actions are proposed for the overall development of the institute. Employer's feedback is obtained from the employers in the placement cell and to cater the requirements of industry, placement cell and the concerned department will take the initiatives to strengthen the placement. The responses of the recruiters who visited the campus are considered for the improvement of the curriculum and placement activity. In addition this, We have also installed a suggestion box which is accessible to all the stake holders so that they can give their feedback/ suggestions for overall development of the institute.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Mechanical Engineering	120	27	25
BE	Electronics & Communication	120	92	90

BE	Computer Science & Engineering	120	135	127
BE	Civil Engineering	60	28	25
[View File](#)				

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1126	Nill	88	Nill	Nill

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
88	88	3	36	Nill	6
[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)

Mentoring is a process whereby the teacher provides support, counseling and helps the students for their overall development. Mentors can play a very important role when the student get completely demotivated, and when the students are going in wrong direction. These Mentors can also help in bridging communication gap between parents and College authorities.They alos play a role in regularly updating the parents about progress of their Son/Daughters. In general, Mentors helps in the growth of Students by closely monitoring their progress. For the Welfare of the Students, the college follows the following objectives: i) To monitor the students regularly and periodic counciling. ii) To enable the parents to know about the prformance and irregularity of their Son/Daughter. iii) Improving the teacher-student relationship. iv) Guiding students to choose their career path v) Maintaining absolute descipline. Mentor has a great roll in the Institution for the creation of a better environment in college, where students can approach teachers for both educational and personal guidance. Mentor seeks to help a student optimize an educational experience, to assist the students socialization into a disciplinary culture, and to help the student to find suitable employment. Mentoring will help the students to take up challenges, overcome obstacles and difficulties in their day to day life as well. Mentor also motivates students for higher studies and entrepreneurship. List of Mentors are identified by SWO and approved by the principal. Each mentor may be allotted with 15-20 students. The Faculties for the First Year students will themselves be their Mentors, and are called 'The Teacher Guardian'. For the subsequent years, the Mentee will be allotted to the mentor (Faculty Advisor) who belongs to the respective branch. This FA will be mentoring the students from second year till fourth year. The Mentor - Mentee ratio maintained in the college is 1:15. At the time of Orientation Program, the Teacher Guardian/mentor will meet the parents of his/her ward, elaborate to them about the scheme and provide them the necessary contact information such as his/her mobile number or email id. Also the contact details of the parents such as address, mobile/office number, email id etc will also be collected to ensure effective communication. Parents will be informed about the progress reports so as to monitor their Children's attendance and performance in the internal examinations. All the information of the mentee is available in college MIS.The teacher guardian can access MIS portal to keep track of their students' performance and their attendance status. Regular meetings are held between mentor and mentee. A Cumulative performance diary

(CPD) is maintained for each student. The CPD has both personal and academic data. Students are allowed to approach the mentor for both academic and personal problems. Personalized professional/ career advice is given to the mentee. TG/FA's will monitor student attendance and progress regularly. They also will conduct regular meetings with students to discuss the methods for improving the performance and also appreciating those students who have already performed well. Progress reports should be sent to

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1126	88	1:13

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
89	88	1	3	18

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
2020	Dr. Anand V R	Associate Professor	Awarded with Ph.D from VTU, Belagavi
2020	Dr. Raja Yateesh Yadav	Assistant Professor	Awarded with Ph.D from VTU, Belagavi
2020	Dr. Nagaraj Bhat	Associate Professor	Awarded with Ph.D from VTU, Belagavi
2020	Mr. Sachin S Bhat	Assistant Professor	Best paper award for Character recognition of Tulu script using convolutional neural network in Springer International Conference on Artificial Intelligence and Data Engineering
2020	Mr. Sachin S Bhat	Assistant Professor	Competitive Research Grant from TEQIP
2020	Mr. Sachin S Bhat	Assistant Professor	Distinguished Young researcher award 2020 from Green thinkers international society
2020	Mr. Sachin S Bhat	Assistant Professor	Best paper award for Transliteration of Kannada text from images to English" under

2020	Mr. Sachin S Bhat	Assistant Professor	track IT in 5th international research colloquium on Advances in Engineering and Technology at MIT, Dubai
2020	Mr. Sachin S Bhat	Assistant Professor	Best paper award for An approach towards the text summarization of Hindi news portals" under track AI in 5th international research colloquium on Advances in Engineering and Technology at MIT, Dubai
2020	Mr. Sachin S Bhat	Assistant Professor	Best paper award for Extraction of human body measurement using affine mode correction and green screen segmentation" under track AI in 5th international research colloquium on Advances in Engineering and Technology at MIT, Dubai
2020	Mr. Sachin S Bhat	Assistant Professor	Consolation prize for An enhanced fuzy probabilistic C-means method for the segmentation of lung tumors" under track AI in 5th international research colloquium on Advances in Engineering and Technology at MIT, Dubai
[View File](#)			

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination

BE	EC, CS, CV, ME	VIII/IV	26/08/2020	27/09/2020
BE	EC, CS, CV, ME	VI/III	26/08/2020	09/10/2020
BE	EC, CS, CV, ME	IV/II	26/08/2020	05/10/2020
BE	EC, CS, CV, ME	II/I	26/08/2020	28/09/2020
BE	EC, CS, CV, ME	VII/IV	01/01/2020	09/02/2020
BE	EC, CS, CV, ME	V/III	06/01/2020	17/02/2020
BE	EC, CS, CV, ME	III/II	09/01/2020	19/02/2020
BE	EC, CS, CV, ME	I/I	25/01/2020	08/03/2020
[View File](#)				

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

The Semester Examination and Continuous Internal Evaluation procedure which are already prescribed by Visvesvaraya Technological University, Belagavi and the Institute follows the same. Apart from this, the institute conducts various technical and non-technical events to evaluate the student's qualities. Formative Assessment The formative assessment refers to a wide variety of methods that teachers use to conduct in-process evaluations of student comprehension, learning needs, and academic progress during the course. CIE is implemented in academic areas using different evaluation techniques like internal assessment test, quiz, seminar, internships, etc., as prescribed by the university. The performance of the students in the internal assessment tests are regularly recorded and monitored by the mentors in Cumulative Performance Diary (CPD) as well as in the Institute Management Information System (MIS). This documentation helps teachers to identify concepts that students are struggling to understand, difficulty in acquiring their inbuilt skills and also to understand the progress in the learning capabilities of the students. Results of internal tests and university examinations are analyzed and meetings are conducted to discuss the performance of the students. The reasons for the poor performance, if any, are discussed in detail and accordingly preventive actions are suggested. Parents of the poor performers are requested to meet the mentors, to have close discussion about student's performance and also about the attendance status of the stufents, whenever necessary. As a part of continuous internal evaluation, students Leadership qualities, presentation skills, involvement of students in various activities etc. are recorded in CPD by the respective Teacher Guardian/Faculty Advisors. During the interaction, students are provided with the additional inputs to improve their leadership skills, communication skills, etc, based on the assessment done during the previous semester. Summative Assessment At the end of the semester the assessment of students in academic and non-academic areas are included in the summative assessment. The results of the summative assessment are used as inputs for providing guidance to students for the next semester. The summative assessment in the academic areas, like, the subject knowledge, skill set of the stuents etc. is tested by the university examinations at the end of the semester. In case of Drawing courses, the sketch book and the print outs are evaluated and accordingly marks are allocated as per the predetermined scheme provided by the university. In case of the

practical courses, the record work, experimental work are observed and valuated based on the university scheme. Seminars-The students are required to present a seminar. The seminars are evaluated by the seminar coordinators, Seminar Guide and other faculty.The average of the marks allotted are considered as the final internal marks for the seminar. Internships or Professional Practice/ProjectWork-The students shall undergo a mandatory internship of 4weeks between 6th 7th semester or 7th 8th semester and the work carried by the student is evaluated at the end of the semester as per VTU guidelines.

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

Since the institution is affiliated under VTU, the institution abides by the rules and regulations regarding commencement of classes, dates of theory and practical examinations. Based on the academic calendar prescribed by the VTU, the institution level academic calendar is prepared wherein the dates for internal tests are clearly mentioned. The dates for other extra-curricular or co-curricular activities such as Avishkar, IIOT, Annual day, Sports day, Conference are set such that it will not affect the academics. Thus schedule of the entire semester activities is made available to the students on the institutional website http://www.sode-edu.in and college notice boards in the form of academic calendar. ? In line with institutional academic calendar each department prepares their academic calendar wherein department level activities are planned for the overall growth of the students. By considering all the above, the master calendar of the institution is prepared by the IQAC. ? The Examination Management System (EMS) is responsible for planning and conducting the internal examinations and it involves tasks related to question papers, answer booklets, allotment of exam rooms, seating arrangements, scheduling, etc. The schedule for the internal examinations is prepared by the departmental EMS coordinators. The date of the exams for the theory courses shall be declared at the beginning of the semester through academic calendar so that all the concerned people are well aware of the events and can plan their activities accordingly. ? The course wise time table is prepared by the departmental EMS members in discussion with the concerned HoDs and displayed on the exam related notice board in the college at least a week in advance of the planned examinations so that all the students are aware of the same. ? The semester theory and practical examinations are conducted as per the norms of VTU. A detailed timetable will be sent by VTU which will be displayed in notice board and also it is available in VTU website (http://vtu.ac.in/time-table/) ? Each cell/club prepares the strategic perspective plan for the academic year and it will be sent to the IQAC for the approval. The various committees work accordingly and in the end of each semester implementation report will be prepared so as to ensure the activities held as per the perspective plan. ? Number of teaching hours necessary to complete the syllabus is properly planned by the faculty. Accordingly, each faculty member prepares the lesson plan of his/her subject in order to complete the syllabus with the proper planning and preparations. ? All the academic related programs such as co-curricular and extra-curricular programs, celebration of various festivals etc. are conducted based on the academic calendar dates.

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://sode-edu.in/departments/

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students	Number of students passed	Pass Percentage

			appeared in the final year examination	in final year examination	
ME	BE	Mechanical Engineering	99	98	98.99
EC	BE	Electronics & Communication Engineering	88	83	94.32
CS	BE	Computer Science & Engineering	118	118	100
CV	BE	Civil Engineering	49	41	83.67
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2.7 – Student Satisfaction Survey

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

 https://sode-edu.in/wp-content/uploads/2018/09/Student-Satisfaction-Survey-2019-20.pdf

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
Major Projects	365	VGST	5	2.5
Major Projects	365	KSCST	0.25	0.25
Major Projects	365	VTU	1.25	1.25
		View 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
Leadership talk	MHRDs innovation cell	30/05/2020
Online demo session of "Microsoft Teams"	IQAC Cell	21/05/2020
Webinar on "A Mathematical Approach in Cipher Systems"	Electronics and communication Engineering	03/06/2020
Talk on integrated circuit design	Electronics and communication Engineering	12/10/2019
Talk on Blockchain and	Computer science and	08/11/2019

its Applications	engineering	
Three day workshop on internet of things	ISTE Cell	06/11/2019
Talk on Embedded Systems - Challenges Opportunities	Electronics and communication Engineering	20/11/2019
Career prospects for young engineers	ISTE Cell	22/11/2019
Writing research project proposal to funding agencies	ISTE Cell	14/12/2019
Talk on "Enterprise Resource planning"	ISTE Cell	11/01/2020
4 day FDP on Empowering Teaching Skills	ISTE Cell	27/01/2020
Guest talk on placement oriented academic projects	Electronics and communication Engineering	23/08/2019
3 days training program on hydraulics and pneumatics	Mechanical Engineering	24/09/2019
Industrial visit to government tool room and training centre(GTTC), Mysore	Mechanical Engineering	27/09/2019
Workshop on project idea generation	EDC Cell	28/08/2019
Talk on artificial intelligent and data analytics	Electronics and communication Engineering	28/08/2019
Workshop on intellectual property rights	ISTE Cell	06/09/2019
Computer network awareness program	Computer science and engineering	13/09/2019
Training program on material testing and quality control lab	Mechanical Engineering	13/09/2019
Industrial visit to stone crushing and cutting industry at karkalaa	EDC Cell	17/09/2019
Workshop on recent developments in smart materials and MEMS	Mechanical Engineering	20/09/2019
Usage of virtual lab	ISTE Cell	20/09/2019
Three days entrepreurship awareness camp	EDC Cell	23/09/2019
Two-day workshop on "Analysis of steel structure through Cype CAD software"	Civil Engineering	17/02/2020

Technical talk on "Pre-stressed concrete"	Civil Engineering	18/02/2020
"LEAD - Leadership Programme" Workshop at SMVITM	Electronics and communication Engineering	22/02/2020
workshop on "Exploring the Google Form"	IQAC and ISTE Cell	10/06/2020
Online webinar Series	MHRDs innovation cell	28/04/2020
Quiz on "Startup, Innovation, and IPR"	Innovation cell	11/06/2020
Invited talk on Entrepreneurship for students of SMVITM	Women Empowerment Cell	04/10/2019
three days hands-on workshop on Robotic design using Tl RSLK	Electronics and communication Engineering	03/10/2019
Two day workshop on Android Application Development	Computer science and engineering	04/10/2019
Visit to new mangalore port trust and thumbe vented dam	Civil Engineering	04/10/2019
Three days entrepreneurship awareness camp	EDC Cell	21/10/2019
One day workshop on Analysis of Structures through CypeCAD software	Civil Engineering	19/10/2019
Workshop on Fire Safety	Mechanical Engineering	21/10/2019
workshop on Introduction to Verilog Programming	Electronics and communication Engineering	24/10/2019
Technical talk on How to Write Technical Paper	Mechanical Engineering	30/10/2019
Seminar on "Nature to Lab and Lab to clinic – Translational Research in Natural Products".	ISTE Cell	28/02/2020
"Digital Marketing and its Opportunities	ISTE Cell	05/03/2020
Talk on "Use of Turnitin-an antiplagiarism software"	IQAC and research consultancy cell	05/03/2020
Two day workshop on CNC programming hands-on session on CNC machine	Mechanical Engineering	10/03/2020
Online demo session of "Microsoft Teams"	IQAC Cell	21/05/2020

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

Performance characterization of Natural Fiber Reinforced Composites for Wind Turbine Blade application	Mr. Ganesh R Kalagi	School of Applied Sciences, REVA University, Bengaluru	18/10/2019	Second best paper award
Best performance in Indian society for technical education	Mr. Deepak Rao M	K. S. Institute of Technology, Bengaluru.	22/02/2020	Best ISTE faculty chapter award
Best performance in Indian society for technical education	Ms. Jyothi jaywanth kamath	K. S. Institute of Technology, Bengaluru.	22/02/2020	Best student chapter award
Project on Smart Agriculture.	Deepak Nayak, Ullas Kunder, Abhijith Serigara, Saurabh Shetty	Naational level student convention/ project exhibition on Industrial Internet of Things (IIOT - 2K19), SMVITM	24/10/2020	Best Project

[View 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 !!!					
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

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

Name of the Department	Number of PhD's Awarded
Civil Engineering	3
Mechanical Engineering	1
Computer science and Engineering	2

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)
International	Civil Engineering	5	Nill

International	Mechanical Engineering	11	Nill
International	Electronic and Communication Engineering	12	Nill
International	Computer Science and Engineering	19	Nill
International	Physics	10	Nill
International	Chemistry	7	Nill
International	Mathematics	8	Nill
		[View 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
Computer science and Engineering	23
Mechanical Engineering	5
Electronics and Communication Engineering	7
Basic Science	9
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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 the publication	Number of citations excluding self citation
In vitro and in vivo anticancer activity of semisynthetic derivatives of betulinic acid	Srinivasan K KSrinivasan K K	Latin American Journal of Pharmacy	2019	1	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India	1
Triacontanoic ester of 5 ??-hydroxy justisolin : Tumour suppressive role in cervical cancer via Bcl-2, BAX and caspase-3	Srinivasan K K	Toxicology Reports	2019	6	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India	6

mediated signalling						
Effect of TiO nan oparticle concentrat ion in Pongamia Pinnata methyl ester on p erformance and emission c haracteris tics of CI engine	Thirumal eshwara Bhat	AIP Conference Proceeding s	2019	3	Shri Madhwa Vadiraja Institute of Technology and Manage ment, Udupi, India	3
Empirical study of engine per formance and emission parameters using Python module	Thirumal eshwara Bhat	AIP Conference Proceeding s	2020	0	Shri Madhwa Vadiraja Institute of Technology and Manage ment, Udupi, India	Nill
Image encryption scheme in public key cryptograp hy based on cubic pells quadratic case	Aithal Ganesh	Indonesian Journal of Electrical Engineerin g and Computer Science	2020	1	Shri Madhwa Vadiraja Institute of Technology and Manage ment, Udupi, India	1
Genetic algorithm based key sequence generation for cipher system	Aithal Ganesh	Pattern Recognitio n Letters	2020	3	Shri Madhwa Vadiraja Institute of Technology and Manage ment, Udupi, India	3
Generation of pseudo random number sequence from discrete o	Aithal Ganesh	Concurre ncy Comput ation	2020	2	Shri Madhwa Vadiraja Institute of Technology and Manage ment,	2

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations	Institutional affiliation as
scillating samples of equally spread objects and application for stream cipher system						Udupi, India
Comparative Analysis of Encryption and Decryption Techniques Using Mersenne Prime Numbers and Phony Modulus to Avoid Factorization Attack of RSA	Aithal Ganesh	International Conference on Advanced Mechatronic Systems, ICAMechS	2019	4	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India	4
Secure RSA variant system to avoid factorization attack using phony modules and phony public key exponent	Aithal Ganesh	International Journal of Innovative Technology and Exploring Engineering	2019	4	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India	4
Insights on effectiveness of secure multicast communication scheme in future wireless network	Aithal Ganesh	International Journal of Advanced Trends in Computer Science and Engineering	2019	2	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India	2

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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	Institutional affiliation as

					excluding self citation	mentioned in the publication
In vitro and in vivo anticancer activity of semisynthetic derivatives of betulinic acid	Srinivasan K K	Latin American Journal of Pharmacy	2019	16	1	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India
Triacontanoic ester of 5 ??-hydroxy justisolin: Tumour suppressive role in cervical cancer via Bcl-2, BAX and caspase-3 mediated signalling	Srinivasan K K	Toxicology Reports	2019	16	6	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India
Effect of TiO nanoparticle concentration in Pongamia Pinnata methyl ester on performance and emission characteristics of CI engine	Thirumaleshwara Bhat	AIP Conference Proceedings	2019	4	3	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India
Empirical study of engine performance and emission parameters using Python module	Thirumaleshwara Bhat	AIP Conference Proceedings	2020	4	Nill	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India
Image encryption	Aithal Ganesh	Indonesian	2020	5	1	Shri Madhwa

scheme in public key cryptography based on cubic pells quadratic case		Journal of Electrical Engineering and Computer Science				Vadiraja Institute of Technology and Management, Udupi, India
Genetic algorithm based key sequence generation for cipher system	Aithal Ganesh	Pattern Recognition Letters	2020	5	3	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India
Generation of pseudo random number sequence from discrete oscillating samples of equally spread objects and application for stream cipher system	Aithal Ganesh	Concurrency Computation	2020	5	2	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India
Comparative Analysis of Encryption and Decryption Techniques Using Mersenne Prime Numbers and Phony Modulus to Avoid Factorization Attack of RSA	Aithal Ganesh	International Conference on Advanced Mechatronic Systems, ICAMechS	2019	5	4	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India
Secure RSA	Aithal Ganesh	International	2019	5	4	Shri Madhwa

variant system to avoid factorization attack using phony modules and phony public key exponent		Journal of Innovative Technology and Exploring Engineering				Vadiraja Institute of Technology and Management, Udupi, India
Insights on effectiveness of secure multicast communication scheme in future wireless network	Aithal Ganesh	International Journal of Advanced Trends in Computer Science and Engineering	2019	5	2	Shri Madhwa Vadiraja Institute of Technology and Management, Udupi, India

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	12	153	23	21
Presented papers	7	2	Nill	Nill
Resource persons	Nill	Nill	1	23

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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
Beach cleaning program at padubidri beach	NSS/YRC/RC	4	40
Shramadhana-vollyball court preparation	NSS/YRC	3	35
Distribution of immunity boosting food at district hospital, udupi	NSS/YRC/RC	2	10
Activity at spandana	NSS/YRC Spandana rehabilitation centre	2	40

Talk on Gender equity	Women Empowerment Cell	4	60
Self Defence Program	Women Empowerment Cell	3	112
Visit to spandana rehabilitation centre on international womens day	Women Empowerment Cell	3	10
Awareness session on plastic followed by cloth bag distribution	Women Empowerment Cell	2	30
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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
Geneva Convention Rally	Letter of Appriciation	Indian Red Cross Society, Udupi Dist.	75
Blood Donation Camp	Letter of Appreciation	Kasturba Hospital	158
Education Tour	Letter of Appreciation	College of Agriculture, Hassan	100
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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
Safety awareness	Women Empowerement Cell	Self defence Training	2	115
Health awarenss	Women Empowerement Cell	Free Yoga Camp	1	40
Environmental awareness	Women Empowerement Cell	Awareness session on plastics followed by cloth bag distribution:	2	10
Gender issue	Women Empowerement Cell	Gender equity	2	40
Social Awareness	NSS,YRC,RC	National Integrity celebration	1	150

Drug abuse and traffiking awarenss	NSS,YRC,RC	International Day against drug abuse and illicit trafficking	1	47
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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
Workshop	V Vijendra Bhat	SMVITM	1
Conference	V Vijendra Bhat	SMVITM	1
FDP	V Vijendra Bhat	SMVITM	5
FDP	Ravinarayana R Rao	SMVITM	2
FDP	Deviprakash	SMVITM	5
FDP	Sahana	SMVITM	5
Workshop	Yashaswini Jogi	SMVITM	5
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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 linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Site Work	Simon Associates, Udupi	08/07/2019	06/08/2019	8
Internship	Site Work	G Cons, Bengaluru	07/07/2019	02/08/2019	2
Internship	Site Work	Seetha Laxmi Infra Developers	08/07/2019	07/08/2019	5
Internship	Design Work	Sumeru Design Studio, Udupi	08/07/2019	08/08/2019	5
Internship	Software training	CRANES SOFTWARE LTD.	08/07/2019	02/08/2019	16
Internship	Web design	UDUPI WEB SOLUTIONS	05/07/2019	05/08/2019	18
Internship	Internship	KONKAN RAILWAYS	15/07/2019	05/08/2019	14
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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
FACE, Coimbatore	23/01/2020	Soft skill and technical training	192
JVGLOBAL Services LLP , Bangalore	03/07/2019	Training and Development of students	239
St. Mary's College, Shirva	12/06/2020	Value added training	26
Indian Society for Training development (ISTD)	04/06/2020	Staff and Student training program	11
VG Industrial Testing Laboratories Pvt. Ltd, Mangalore	25/03/2019	Facility and Service exchange	63
DTF Ventures	01/04/2019	Scaling up innovators and incubates to the extent they can commercialize innovation	Nill
Info Tech Pvt. Ltd.	03/02/2020	Delivery and Resource partner	Nill
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
52.8	26.74

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Easylib	Fully	4.4.2	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	11558	3793637	154	78500	11712	3872137
Reference Books	3287	926275	30	6221	3317	932496
e-Books	7	420000	11113	100000	11120	520000
Journals	129	463863	Nill	Nill	129	463863
e-Journals	48	5819143	1700	741517	1748	6560660
Digital Database	1	Nill	1	Nill	2	Nill
CD & Video	741	Nill	100	Nill	841	Nill
Library Automation	2	147320	1	11800	3	159120
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(specify)	Nill	Nill	Nill	Nill	Nill	Nill
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Sachin Bhat	Machine Learning	Google Classroom (Code - bkbtwxa2)	22/03/2020
Sudarshan Rao K	Cam construction	YouTube- https://www.youtube.com/channel/UCmyVdNINJk1FLKc9jPp1Iug	20/05/2020
Sudarshan Rao K	Gears	YouTube-https://www.youtube.com/channel/UCmyVdNINJk1FLKc9jPp1Iug	28/05/2020

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	519	278	515	10	190	25	12	100	4
Added	0	0	0	0	0	0	0	0	0
Total	519	278	515	10	190	25	12	100	4

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

100 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
Media Centre	https://www.youtube.com/channel/UCSN1apCdaVUi5ZDtimL6uUw
Media Centre	https://www.youtube.com/watch?v=uxEZ9mG1F-0&list=PLA5LDt9-JkGC6xwOfWnlhmhWgRQS3ilpw
Media Centre	https://www.youtube.com/watch?v=uoFjsH8NTHs&list=PLA5LDt9-JkGAE9LkfVe0rvYRB_ejOowkt
Media Centre	https://www.youtube.com/channel/UCHu1-b4hH3eXXH-_kwSYG3w
Media Centre	https://www.youtube.com/playlist?list=PLSL6Q0pRPP3RdOIUNTIXtTgBiH-2ZUze7
Media Centre	https://www.youtube.com/playlist?list=PLSL6Q0pRPP3ShdQ1zkYzKyvy8_etpYQXe
Media Centre	https://www.youtube.com/watch?v=imiG4gAGTA0&list=PLWl0bAsajAuErxbHqg63BtkDf77Yz_BKG
Media Centre	https://youtu.be/pUhPl0GRKmQ
Media Centre	https://youtu.be/fSh58EJ3z-k https://youtu.be/VDIiUM0HHH8
Media Centre	https://youtu.be/8PH0X_Ci-f0
Media Centre	https://youtu.be/eX40OCvw860
Media Centre	https://youtu.be/YuhmXV3XtX4

Media Centre	https://youtu.be/pqs5lI3jSII
Media Centre	https://youtu.be/Mj8gXPC5cZM
Media Centre	https://www.youtube.com/channel/UCmyVdNINJk1FLKc9jPp1Iug
Media Centre	https://www.youtube.com/channel/UC68SV57xMPfk7tjJlI_2Rjw
Lecture video	https://www.youtube.com/channel/UCmyVdNINJk1FLKc9jPp1Iug/videos

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
122.8	120.07	84.75	86.88

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)

Physical facilities • College has appointed qualified people for maintaining its buildings, transport, furniture and generator, civil, electric, plumbing work etc. • Maintenance department undertakes electrical/plumbing work and its maintenance. • Separate complaint registers are maintained for different services. Maintenance department reports regularly about breakage/maintenance of equipment to higher authority to take proper measures. • Garden is maintained by gardening staff. • Generator servicing is provided by vendor for every six months. • Sewage Treatment plant with 125kilo-litres capacity is set up using batch reactor technology. Monthly maintenance is done through supplier. 40litres of chlorine is used to clean it and recycled water is reused for gardening. • Solar panels of 125KW and solar water heaters are set up in hostels for students' convenience and maintenance is done as per supplier guidelines. • Used booklets, papers, magazines are disposed as scraps every year. • A fleet of buses and van are maintained by the college transport department. Students, staff avail this facility by paying a fixed amount yearly. • Yearly interdepartmental stock verification is done for available, discarded equipment by a meticulous stock verification process and submitted to the Principal. Academic Facilities- Laboratories, Classrooms • Entire campus including infrastructure is cleaned everyday by house-keeping staff. • Maintenance department ensures uninterrupted power supply, maintenance of electrical assets. • Minor repairs of laboratory equipment are done by lab instructors. • Lab components are accessed by students for projects. • Major equipment is under AMC for regular preventive and corrective maintenance. • The PCs in laboratories are utilized for conducting IBPS, RRB, MESCOM, COMED-K and consultancy work. • The faulty trainer kits are serviced by service engineers of specified companies and measuring instruments are calibrated regularly by standard companies. Library • Central library is well maintained. Staff and students utilize it effectively. • ILMS software undergoes AMC by vendor. • House-keeping staff does its routine cleaning. • e-resources are renewed yearly. Computers • Maintenance of PCs and printers, minor repairs related to hardware/software are done and addressed by system administrator. Server room support IT related issues. • Students and staff are provided separate login

credentials for intranet and internet access. • Internet access is provided even after college hours to encourage students in their projects. • Software and antivirus are updated periodically. • Qualified system programmer creates, maintains student faculty database by enhancing new features frequently. Sports Complex • Spacious sports room in the basement of main block, maintained/monitored by Physical Education Director is available beyond working hours and utilized by students/staff. Required sports materials are procured every year and housekeeping staff cleans its surroundings on regular basis. •Outdoor games are open from 6:00AM-7:30AM and 4:00PM-6:30PM. •Special sports coaching is provided for students participating in VTU/Intercollegiate level from 3:00PM-6: 30P.M with prior permission from Principal. • Gym facilities are provided for hostel boys from 6:00 AM-7: 30AM, ladies (staff/students) from 5: 00 PM-6: 00 PM and gents (staff/students) from 6:00 PM-7: 30PM. Indoor games facility is available from 1:00PM-1:50PM and 4:00PM-6:30PM.

https://sode-edu.in/facilities/#collapse2

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institution scholarships	222	4778090
Financial Support from Other Sources			
a) National	Government scholarships	697	17556200
b)International	Nill	Nill	Nill
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft Skill Development	05/08/2019	256	Campus to Corporate – Pre Placement Training Program by JV Global Services LLP, Bengaluru Phase – I
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	TEQIP – VTU – AMCAT Assessment	60	Nill	60	Nill

| 2019 | Career guidance and Legal challenges in Civil Engineering | Nill | 66 | Nill | 35 |

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
9	9	7

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
Accord Global Technology Solutions Private Limited, Bengaluru	22	1	Dynatech Industry Bengaluru	5	2

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E	COMPUTER SCIENCE	UVCE, BANGALORE	M Tech in SOFTWARE ENGINEERING

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

Items	Number of students selected/ qualifying
Any Other	20

No file uploaded.

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

Activity	Level	Number of Participants
Independence Day competitions	Institute Level	100

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	II nd Place in Yoga Competition	National	1	Nill	I CS	Chandan K R

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

We have an Elected/selected Student Council comprising of One General Secretary, joint secretary, Secretaries for cultural, technical, sports, placement representatives and editorial board representatives for newsletter, college magazine and Class Representatives of each class. . Students' Council of the college works for the benefit of the students throughout the year and pursues several activities within and outside the college campus. SC puts forward his/her suggestions and different issues related to the academic and administrative affairs of the college to the Head of the institution and to the IQAC. Problems faced by students are sometimes communicated to the college authority through General Secretary of the students' council. Student council along with The Principal and the student council advisory board which meets on a monthly basis to discuss their areas of concern. The Student Council helps in maintaining academic discipline and strictness. They have special tasks during co-curricular and extra-curricular activities. We have Student representatives in IQAC, Women Anti-Harassment Cell, Human Rights Cell, YRC, Newsletter, rotaract club, Training and placement Cell, NSS, all departmental associations and Sports. The major activities pursued by the Students' Council in 2019-20 are- > Orientation programme for the First Year Students. > Graduation day ceremony > participation in inter collegiate techo-cultural fest >VTU level competitions > Blood donation camp. > Annual Sports Day. > Traditional day celebration

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni association is a registered body established in 2019. Forum has eminent personalities from all walks of life, who have passed out from this institution in the past. The services extended by the alumni, especially when our college was going through the process of accreditation, were very commendable.The Alumni Association runs with a smooth flow every year provides an informal database of students' progression during interactions. Alumni meet is scheduled twice in a year. The Alumni association promotes several welfare schemes for the existing students every year. The alumni progression is tracked and recorded through the alumni association. The Alumni Association operates with a peer team which includes President (Alumni), Vice President, Secretary, Joint Secretary and Treasurer. Appropriate input on professional experience and career openings are obtained from alumni based on corporate needs.Alumni feedback is used to improve the prospectus of career development and curriculum design. In 2019-2020 alumni meet various activities were conducted and all the alumni participated with high spirit. The Alumni and the teachers discussed on various aspects notably on the Employment Portal, which will be useful for the

job seekers and this will be implemented in the current academic year.Alumni meet and students' feedbacks at the end of each semester are used to review the activities of the institution. Alumni are invited to participate as resource persons . The Alumni interaction Program takes place in each department. They provide professional experience and placement information with regard to corporate expectation. The Feedback from Alumni serves to improve the prospectus of career building and curriculum design.

5.4.2 – No. of enrolled Alumni:

716

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

106800

5.4.4 – Meetings/activities organized by Alumni Association :

10

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1.The institute hosted AVISHKAR 2019 in the month of November 2019. The event drew around 20 teams from various colleges across the country. Committee formation procedure followed during Avishkar-2019: • In the IQAC meeting, the overall coordinators were selected by the Principal and the responsibility of organizing the Avishkar was delegated to them. • Overall coordinators in turn formed different committees like Program and event management committee, Press,Publicity and Invitation committee, Stage Committee, Reception and registration committee and food committee. Each committee was headed by the coordinator and later on, the members were allotted for the respective committees. Duties and responsibilities of each committee were framed by the overall coordinator in consultation with the committee coordinators. • During the Avishkar, various committee members and student volunteers participated actively resulting in the successful conduct of the event. 2. A new IQAC has been formed with the chairmanship of Principal for the academic year 2019-20. During its first meeting, different clubs/committees were formed and a few senior faculty members were selected as Institutional level coordinators for the smooth functioning of the institution. Involvement of faculty members, non-teaching staff and students were ensured in the various cells such as NSS/YRC/RC, Cocurricular and extra-curricular, Hostel and canteen, Anti-ragging, Counselling and Women empowerment. List of activities envisaged and the responsibilities assigned to individuals were chalked out in the first meeting of each cell. Planning and execution of the activities of the aforesaid committees were monitored in the periodically conducted meetings. This could ensure a smooth and effective conduct of the various events planned. Student's participation was encouraged in decision making process through student's chapters like ISTE/IEEE and various department clubs. Measures to apprise parents of the academic performance of their wards as well as facilities available in the campus were taken through Parent teachers meet conducted once in each semester.

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
Teaching and Learning	In order to make the students more interactive creative and to make learning more effective following teaching learning methods were implemented in the institution. • Mini project competition • Innovative teaching methods like Google classroom, ICT, lecture capturing system (LCS), eLearning resources, certificate courses etc • Trainings on soft skills and personality development by the Placement and Training department •IIoT- Industrial Internet of Things a national level event. • International conferences • Industrial visit and guest talk by industrial and academic experts • E-learning facility provided through language lab, multimedia center. • Participation of students were enhanced in co-curricular and extra-curricular activities. • Due to COVID 19 around 80 of the course delivered through online mode • Also, all faculty members developed their YouTube video channel and uploaded the class video • Conducted faculty development program to enhance the teaching quality of the classroom teaching • Encouraged the faculty members to undergo the AICTE- ATAL online FDP on emerging areas
Curriculum Development	Effective measures were taken in order to strengthen curriculum development aspects. • Every year curriculum feedback was collected from all the stake holders • The same was subjected to scrutiny and analysis during departmental meetings. • The resolution to this effect was discussed and relevant suggestions were submitted to university authorities. • Industrial visit, talk by experts in relevant fields, value added certified courses, NPTEL, Coursera courses, technical paper presentation, IIOT, mini projects, all in students interests were additional steps encouraged by the institution.
Examination and Evaluation	• To conduct the course work related internal assessment tests in a transparent manner and to ensure the smooth functioning of the entire examination related activities such as evaluation, marks entry in college MIS,

	dispatch of progress report, result analysis meeting etc. an examination cell is formed in the institute. • Principal is the head of the cell who is also the Chief Superintendent for all the internal and university examination related activities. • Examination cell coordinator is the liaison with the university in examination related matters of the college. • In addition there are five Examination Monitoring System (EMS) coordinators selected from faculty to assist in actual functioning of the cell. All members of the cell regularly meet during the semesters to discuss the relevant issues. • In pursuance of instructions from VTU, CCTV facilities were installed and surveillance is made effective in all the class rooms and laboratory for smooth conduction of examinations.
Library, ICT and Physical Infrastructure / Instrumentation	The Central Library of our institute is automated with ILMS software Easylib, a fully automated software package purchased in 2010, with version 4.4.2. • It has a separate digital library facility to access e-resources such as IEEE, ProQuest, K-Nimbus, Elsevier, ASCE, Springer, Taylor and Francis that come under VTU Consortium to develop research culture among students/faculty/staff. • Department libraries equipped with good number of latest books and references help faculty members strengthen their preparation for classes. • Librarian with the help of library committee conducted various activities for students to familiarize the facilities available in the library. Physical Infrastructure/ Instrumentation: In addition to the items mentioned in SSR submitted for accreditation process (assessment years 2015-16 to 2017-18), the following facilities were added in afterwards. • A highly anticipated green initiative has been accomplished by installing a 125 kWH capacity solar panel by utilizing the large roof top area above the mechanical workshop. • It covers the full electrical consumption of the institution and there is also provision that to transmit the surplus to MESCOM grid. • A well-equipped gymnasium has been made operational for the benefit of students and faculty members in the indoor court

		area of the basement.
	Industry Interaction / Collaboration	• Industrial visit conducted by all the Engineering departments to enhance the student's experiential learning ability. • Guest lectures by some industrial experts from industries were arranged regularly. • MoU with reputed industries to have good interaction • Mandatory Industry Internship to final year students
	Research and Development	• SMVITM has VTU approved research centres in two engineering programmes as well as in all the three basic science departments. • The Dean, Research and Consultancy (R C) takes care of the promotion and dissemination of the research activities in the campus. • The doctoral committee constituted by the institute headed by the Dean (RC) reviews the project and funding proposals. • They also meet once in every six months to review the progress of research activities of the institute. • Institute is supporting the research scholars by providing research seed money to carry out their research work • Research guides are also encouraged by additional incentives
	Human Resource Management	An in-house developed Management Information System (MIS) is used for effective administration though a few modules have been effectively operational earlier, leave transaction process was streamlined from 2018-19. This made the whole process much more simple and convenient. Alternative arrangements for classes henceforth became clearly deciphered thus improving transparency of the leave availing system. Also, feedback collection and analysis is made in the MIS. Examination invigilation duty allotment, alternate arrangements etc., are made in the MIS. Faculty Bio-metric details are recorded and managed in MIS.
	Admission of Students	Admission to SMVTIM is granted in accordance with the rules and regulations enforced by the Government of Karnataka from time to time. Aspiring students shall take up the Common Entrance Test (CET) conducted by Karnataka Examinations Authority (KEA) and get admitted through the CET counselling process. A few management

seats are also available in the institution. There is also a provision for successful Diploma/B.Sc students to get admitted to second year of engineering through lateral admission. The Institution has taken added initiatives in promoting the admissions and to improve the visibility by deputing senior faculty with career counselling experience to nearby Pre university Colleges. Lot of encouragement was given especially to economically and socially underprivileged students in the form of scholarships.

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

E-governace area	Details
Planning and Development	Mail communication facilities to all departments/Faculty members. Faculty feedback system through indigenously developed Management Information System (MIS).
Administration	Students attendance and mark entry, Faculty and staff leave entry facility through MIS
Finance and Accounts	All the transactions are carried out through Tally, all payment through online mode
Student Admission and Support	Admissions are carried out by Karnataka Examination Authority through CET.
Examination	End semester examinations are conducted by the university. Exam form application, Question paper delivery system, Evaluation and announcement of results are carried out through online system.

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
2019	Sahana Karanth	National workshop on High Performance computing and applications , NITK Suratkal	Nill	1770
		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 development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Faculty Development Program	Nill	16/07/2019	17/07/2019	80	Nill
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Art of Thesis Writing	1	08/03/2019	08/03/2019	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
87	1	71	3

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
FDP, Guest lectures, seminars and hands on workshop have been arranged for faculty. Faculty members are given SCL (special casual leave) to attend FDP, workshops, seminars, conferences.	SDP, Medical/Rural Accidental benefit insurance, Fee concession for the wards of the staff members. Work related facilities.	Scholarship schemes, Best student award and other awards for academic. Opportunity to participate in extracocurricular activities.

6.4 – Financial Management and Resource Mobilization

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

The Institution conducts internal audit half yearly and external audit at the end of every financial year. Financial planning and review is done through Internal finance committee. The committee meets half yearly and reviews the income and expenditure statements and suggest further action plan. External Audit is conducted through a chartered accountant at the end of every financial year. Every Financial transaction is recorded through software (Tally) students are encouraged to pay the fee through online mode. Audited financial statements are made public by placing it on Institution website and are sent to statutory and regulatory bodies. An effective financial management system is in place and helps the institution in overall growth.

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
Prueba India Software Pvt LTd	10000	Hackothsav 24- Hr Hackathon
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6.4.3 – Total corpus fund generated

3500000

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	Visvesvaraya Technological University	Yes	IQAC
Administrative	Yes	AICTE, Visvesvaraya Technological University	Yes	Governing Council

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

1. Parent teachers meeting 2. PAC meeting 3. Orientation programme. 4. Representation in IQAC 5. Curriculum feedback

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

1. One Day Workshop on Easylib software and Digital e-resources 2. Online Quiz Know about Counselling 3. Hands on session on Photoshop

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

1. NBA 2. UG courses in emerging areas like AI and ML 3. Patents by SMVITM faculty members

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	National Level Student Convention/Project Exhibition on	24/10/2019	24/10/2019	24/10/2019	150

2019	Industrial Internet of Things (IIOT)				
2019	Interaction with Dr. L N Seshagiri, Professor, Government First Grade College Jayanagar, Bangalore regarding the role of IQAC in quality enhancement after NAAC accreditation	15/10/2019	15/10/2019	15/10/2019	24
2019	Three Day Workshop on Android Application Development for CSE students of SMVITM	04/10/2019	04/10/2019	06/10/2019	35
2019	Three days hands-on workshop on Robotic design using TI RSLK	03/10/2019	03/10/2019	05/10/2019	80
2019	Guest Talk on Renewable energy and Energy conversion for civil engineering students	25/09/2019	25/09/2019	25/09/2019	70
2019	Hands-on Workshop on Usage of Virtual Lab for civil engineering students	20/09/2019	20/09/2019	20/09/2019	35
2019	Workshop on Recent Developments in Smart Materials MEMS for	20/09/2019	20/09/2019	20/09/2019	45

2019	Session on The Significance of Intellectual Property Rights for E ntrepreneurs and Academia for SMVITM faculty members	06/09/2019	06/09/2019	06/09/2019	60
2019	FDP on VLSI Chip Design and Verification using Mentor Graphics EDA Tool for EC department faculty members	22/07/2019	22/07/2019	23/07/2019	25
2019	Faculty Development program	16/07/2019	16/07/2019	18/07/2019	80
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
A talk on gender equity	26/08/2019	26/08/2019	34	30
Invited talk on "Awareness about the Rights of Women"	22/02/2020	22/02/2020	43	30
Training session on self defense	09/07/2019	09/07/2019	80	35
Women's Day Celebration	03/05/2020	03/05/2020	150	50

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

125kW solar power plant was commissioned during March 2019. Around 40 percent of Institutes power requirement is met through this solar power plant.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Braille Software/facilities	Yes	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	Nill
Special skill development for differently abled students	Yes	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	Nill	16/11/2020	1	Pitch your idea	Addressing Locational Disdavantage - As most of the students are from rural areas, there is a need to provide value addition which is not covered in University curriculum, such as soft skills, aptitude training, interpersonal	40

2019	Nill	1	19/07/2019	1	Vanamohothsava	To create an awareness about importance of growing plants for environmental protection	40

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

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
VANAMAHOTHSAVA	**18/07/2019**	**18/07/2019**	**40**

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

• The used papers and notebooks are collected every semester and sent for recycling. • Usage of plastic cups, plates and cutlery are restricted in the campus as a green initiative. • Sufficient numbers of bins are placed at prominent locations to collect waste in campus. • Sewage Treatment Plant (STP) of 125 kL/day capacity has been commissioned in the Institution. The treated water is used for flushing purpose in toilets and gardening purpose. • 125kW solar power plant was commissioned during March 2019. Around 40 percent of Institutes power requirement is met through this solar power plant. • The college has been always keen about minimizing the usage of paper. Circulars and notifications are forwarded to the staff members and students via e-mail and in recent times, through social media. Since the entire campus is Wi-Fi enabled, it becomes imperative on part of institute to utilize technology for information dissemination.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Practice–1:"Community Outreach" 1. Title of the Practice "COMMUNITY OUTREACH" 2. Objectives of the practice: To cultivate a sense of social responsibility in the students and inspire community work To bridge the theory-praxis divide To make students aware of actualities of the real world To provide a genuine platform wherein the students will be able to put their acquired knowledge into practice 3. Context: Knowledge without responsibility and practical application is meaningless. Similarly, self-growth and development become relevant only in the context of our broader social existence. Individuals cannot flourish if the community or society is crippling or crippled. The students at SMVITM are provided with ample opportunities to give something back to the society/community as paying a debt for what they themselves have received. This process of fuelling back into society one's knowledge-wealth in diverse domains

is not only an empowering and satisfying experience it is also a great act of learning by itself in the making of responsive and responsible citizens of the country. 4. The Practice(s): Community outreach through various activities: Active involvement of students in various activities like blood donation camps, programmes related to health issues, issues of women empowerment, environmental issues, sanitation issues etc. organized by NSS, Rotaract, Community club, Eco club, Women Empowerment Club and Human Rights Club from time to time helps to inculcate values of good citizenship, responsibility and an orientation towards selfless service in the students. Programs such as Vanamahotsava conducted every year has seen the students and faculty plant trees and plants in a bid to make the campus as green as possible. This is a small effort that is undertaken every year under Eco club to promote ecological and environmental responsibility in the students. Under Unnat Bharath Abhiyan, the institute has identified and adopted 5 villages within a radius of 7km. Student groups have surveyed households to identify problems faced by the locals and have submitted their findings. These findings will be analysed, and the most feasible solutions for the problems will be formulated. Students and faculty will then apply for grants from the central government, which will be handed over to the local gram panchayats for utilization. Under Atal Tinkering Lab, around 8 identified high schools have been adopted. Students and faculty from our institute are training children at these schools in latest technologies. Training Programs are conducted by faculty at our institute to train diploma students of nearby polytechnics in domains not covered in their curriculum. Trainings on CNC (hands-on) takes place every semester for interested in-house and external students and working professionals. Training Workshops have been arranged for school teachers to increase their awareness about various pedagogical methods in teaching and various teaching aids that can be used. The resource persons were the faculty from the institute as well as external knowledge streams. Regular Career Guidance Programs are conducted for 102 students. These students will be at the turning point in their education. It started with 1 program in 2013 and the number of such programs is increasing every year. The response from the students has always been very positive and forthcoming. The Eco Club has continuously absorbed itself with the task of spreading awareness about current environmental concerns by putting up posters at college and inter-college festivals. Community Club and NSS club, whose very motto is selfless service to society, has been actively pursuing the cause of community outreach. Some of the programmes organized under it include blood donation camps, health check-up camps, cleanliness drives and offering time in community service at a local level. The students under Community club and NSS have also regularly visited old age homes, orphanages and homes for specially-abled children and presented their services at the physical and emotional planes. These activities have helped in making the students more aware of life's harsh realities and hardships, and thus have made them more humble and feel grateful for what they had taken for granted until now. Community outreach through research: Community outreach is also one of the guiding themes of undergraduate research projects. Students of various batches have carried out their final year project that serves the community regularly. 5. Evidence of success a sense of involvement and responsibility towards the community is an important element of students' education in general and professional education in particular. Through their interaction with marginalized people, students learn to address, question and finally reject discriminations in all forms. This is the most basic aim of education, studying to change society. It's not merely learning, but learning with a purpose, to understand the world around us, to help each other and to make it a better place for everyone. As described above, the college attempts to provide ample opportunities for such interactions to the students and contribute to the community. These practices do make a difference, however small it might be, in others life. While extending one's self for others, the students have been giving feedback as to

how such practices have helped them to become genuine persons and sensitive budding professionals. 6. Problems Encountered and Resources Required Problems Time constraint in the semester system of the University Lack of awareness of the various government and private support agencies for funding and resource dispersal Distrust and lack of confidence from certain sections of society in the capabilities of the students to undertake community service and garner results Difficulty in translating the worth of community work carried out by students into academic credits Lack of funding for some of the projects Resources Additional funding for certain community-related projects Sales and market research for products designed and developed to be helpful for certain factions of the community such as agrarian, animal husbandry etc. Technical expertise from diverse branches of science, marketing, management etc. More awareness about government and private schemes such as Atal Tinkering Lab etc Practice-2: "Teacher Guardian / Faculty Advisor Scheme" 1 Title of the Practice "Teacher Guardian / Faculty Advisor Scheme" 2.Objectives of the Practice To improve student-teacher relationship To monitor student's overall performance during their engineering program. To counsel students for solving their grievances and boost their self-esteem To keep the parents informed of their ward's performance To guide students towards right career path. 3.The Context The following issues made the Institute adopt the TG/FA(Teacher Guardian / Faculty Advisor) Scheme The pressures to perform in current competitive world and to face the challenges of the society, students need TG/FA support to achieve academic excellence. Conflicts in attitudes, habits, and adaptability towards learning practices. Lack of proper guidance in choosing right career, which was hampering their future. Lack of valid information to parents regarding their ward's performance. 4.The Practice A Batch of 10-20 students is allotted to a Teacher Guardian during their first year in institute. Once the student enters specific departments in second year, they are allotted a Faculty Advisor for next 3 years. A faculty advisor is allotted around 20 students. Cumulative Performance Diaries (CPDs) are provided to each mentor to maintain the record of students under their patronage, which contains details such as academic performance, soft skills evaluation and personal details about the student. TG maintains this CPD during first year, later handed over to FA when student enters second year. The TG/FA meets the students once in a fortnight or whenever need arises. If required, proper counselling is provided through counselling cell. Progress report sent to all parents regarding their ward's performance after each internal assessment and semester exam. The Parents/ Guardians of Irregular/ underperforming students are called to meet the TG/FA and remedial measures are initiated for improvement. Recommend remedial classes for slow learners. HOD monitors this process continually, and once in a semester all TG/FA have to report to HOD about the observations. Students have to maintain a blue card, which records all activities of a student within and outside the college. It also maintains the record of permissions by TG/FA, Parent, Coordinator and HOD Meeting of class committee(consisting of selected students of a class, subject handling faculty, TG/FA and HOD) is held frequently as scheduled, during which any issues pertaining teaching, learning, academic, discipline etc., gets highlighted which will be addressed suitably. 5. Evidence of Success No of Students having Attendance shortage has been reduced. The communications between TG/FA and students strengthened the Student Teacher relationship. Academic performances of the students have improved. Participation in co-curricular activities is enhanced. Parents acknowledge their ward performance regularly. Students are more focused to achieve their objectives. 6. Problems Encountered and Resources required The new faculty members who are recruited in the department need time and guidance to understand the importance of TG/FA scheme. Orientation for such faculty members is required. The faculty members at times experience difficulty for one to one interaction due to time constraints. However most faculty members appreciate the utility of this scheme and take it up as pleasure.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://sode-edu.in/

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 institute passionately believes in its principles of vision and mission and strives hard towards achieving its promise of providing holistic education. We believe that a strong and honest character is even more important than just having a career. Career may change, but an unshakeable character is a necessity for a content life. Knowledge: In addition to classroom teaching based on the prescribed syllabus, we also have various invited technical talks, short term workshops, lab experiments outside the curriculum and many more to augment the knowledge of the students. Skills: The institutional Placement Department trains the students frequently on soft skill and personality development. Technical skills are honed by regular hands-on training sessions on machines and on software. Innovation: Brainstorming sessions with experts, creative ideas being implemented and projects being taken forward for the benefit of the society and overall development of students are the objectives of this club. A number of students have come up with thoughtful ideas, and have made them work with support from the club, staff and the management. Entrepreneurship: The institute has an Entrepreneurship Development Cell that strives to provide all aspiring students to realize their entrepreneurship dreams. A few of our alumni have also started their own establishments. Leadership: Students showcase their leadership capabilities during all major institute activities like – annual day, varnotsava, conferences etc., Students are provided with opportunities to participate in "Lead Prayana" which inculcates leadership with social responsibility in them. Social responsibility: Institute's NSS unit undertakes camps and interactive sessions with notable figures from time to time. Through "Atal Tinkering Lab", our students are sharing their knowledge with students of identified schools of the community. Cultural interests: The institute has its own Yakshagana team comprising of students, faculty and staff. The institute also has a team of performers playing 'chende', who create an atmosphere of divinity during every major occasion in the institute. There are a large number of students who are extremely talented in singing, dancing, painting, rangoli, skits, mimes and several other performing acts. The Extra Curricular team of the institute conducts Manthana, a series of competitions that are held over a period of several days each year for all interested students and staff. An annual inter-collegiate tehno-cultural fest named Varnothsava is held every year. Environmental aspects: The institute schedules Vanamahotsava programs every year, wherein respected members of the general public as well as alumni are invited to plant saplings of trees in the campus. The students are taking initiatives, along with "Swacchh Bharat Abhiyan" to spread awareness about environmental concerns within and outside campus, through street plays, cleanliness drives etc. Even while choosing topic for their projects, major driving factors have always been social, environmental concerns. Spiritual awareness: Spirituality is an essence in day to day activities at the institute. The pontiff of the matha delivers spiritually rich talks regularly to staff and students of the Institute. Pontiffs of the other 7 mathas also visit the campus occasionally and help in the spiritual uplift of the institute.

Provide the weblink of the institution
https://sode-edu.in/

8. Future Plans of Actions for Next Academic Year

The following future action plans are envisaged for the year 2020-21 • Organizing international conference. • International collaborations. • Registration of alumni association supported by good number of activities. • Increase in intake. • Starting new UG program. • Setup of incubation center. • Accreditation by NBA. • Enhancement of faculty qualification with Ph.D. • Increase in the quality research publications. • Organizing state level Hackathon event. • Increase the activities to improve the placements