



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND
MANAGEMENT VISHWOTHAMA NAGARA PO BANTAKAL UDUPI-574115

574115

www.sode-edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

March 2019

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Founded in 2010 by **H. H. Shri Vishwavallabha Theertha Swamiji** of Shri Sode Vadiraja Mutt – **Shri Madhwa Vadiraja Institute of Technology & Management (SMVITM)**, situated at Bantakal in Udupi has carved a niche for itself in imparting quality engineering education in the coastal Karnataka region. Despite being located in a rural area, SMVITM ensures that its students are well trained in existing engineering practices and acquainted with the latest industrial trends.

The institute is affiliated to Visvesvaraya Technological University, Belagavi; approved by the All India Council for Technical Education, New Delhi and recognized by the Government of Karnataka. The college offers Bachelor of Engineering (B.E.) courses in Civil Engineering, Computer Science & Engineering Electronics & Communication Engineering and Mechanical Engineering. Currently, 1233 students are pursuing their engineering education at the institute.

Shri Swamiji started the institute with the sublime objective of providing **quality higher education to the needy student community at affordable costs**. The motto *Engineering your Career and Character with Care* well reflects the objectives and philosophy of the institute. Despite, being the youngest institute in the region, SMVITM has made remarkable strides in its journey towards excellence over the past five years and has emerged as the most promising engineering institute with its well-qualified and motivated faculty, state-of-the-art infrastructure and distinguished learning-centric facilities.

Though the institution is still taking off, the achievements of its students, faculty and staff are many and commendable. The institute is growing fast, scaling greater heights by concentrating on excellence in education, research and promotion of placement & entrepreneurship through industry-academia tie-ups and value added programs.

The accomplishments of SMVITM have already garnered well-deserved recognition and widespread praise from eminent personalities across the spectrum.

Vision

To Establish an Excellent, Value-based Higher Educational Hub to Meet the Challenges of Global Competitiveness

Mission

To impart holistic education with state of the art infrastructural facilities and conducive academic ambience, at affordable costs, leading to the creation of Centers of Excellence with best brains collectively interacting for total personality development and intellectual growth

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Proactive visionary management
- Qualified, competent and dedicated faculty
- State of the art infrastructure
- Active MoUs with reputed industries and institutes
- Financial support by means of various scholarships
- In-house developed office automation system for academic and administration process
- Conducive environment for teaching learning process
- Pollution free environment
- Support for research through research centres
- Value added/life skill courses

Institutional Weakness

- Research grants from funding agencies
- Absence of PG programs due to the non-accredited status
- Placement in core industries
- Functional MoUs with foreign universities and organizations
- Since the institution is young, Alumni base is limited

Institutional Opportunity

- Interdisciplinary research activities.
- Organizing International conference.
- Faculty exchange programme with international organisation
- Incubation centres
- Revenue generation through consultancy and research projects
- NIRF ranking
- Autonomous status by the University

Institutional Challenge

- Varying trends in admission for technical education
- Develop multi-disciplinary and inter-disciplinary courses and programmes
- Developing patents and good research teams in every department
- Achieving placement opportunity to every student

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute is affiliated to Visvesvaraya Technological University Belagavi, being an affiliated institution; the

syllabus is prescribed by the affiliated university. The institute offers four B.E degree programs in the disciplines of Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering and Mechanical Engineering. The institute also offers six PhD programs in the disciplines of Civil Engineering, Electronics and Communication Engineering, Mechanical Engineering and in the departments of Mathematics, Chemistry and Physics. Institute develops its own curriculum in tune with the Vision, Mission, Core values and the requirements of the Syllabus. The institute has a very systematic mechanism in developing and deploying action plans for effective implementation of the curriculum. The institute prepares an academic calendar with information regarding class commencement, internal assessment dates, practical examinations, end semester examination dates and other co-curricular activities etc. The institute follows Choice Based Credit System in all academic programs and 24% of new courses have been introduced by the University. Faculty are encouraged to impart the curriculum through innovative teaching methods including power point presentations, assignments, discussions, workshops, seminars, google class room teaching and industrial visits, e-learning apart from regular methods. Institute regularly organizes faculty training programs and the experts are invited from industries and premier institutions like NITs, IITs.

The university has introduced inclusive courses on human values & professional ethics, environmental science and gender equality which are offered in various programs. Apart from the courses in the curriculum, various activities are organized by various committees/cell of the institute to focus on the socio cultural issues of the community. Certificate course beyond syllabus and several types of value added courses are offered to the students to enhance core skills. Around 30.5% students have taken Field Projects and Internships.

Structured feedback is taken on curriculum from students, faculty, parents, alumni and employers. The same is analyzed, discussed and appropriate actions are initiated at various levels including the Collage Academic Council (CAC), IQAC and Governing Council. The feedback analysis is made available on the institute website.

Teaching-learning and Evaluation

The admission in the institution takes place as per the rules and regulations of AICTE norms. The seat allotment is made as per the reservation policies of state government through KEA. Measures are in place to address varying learning levels of advanced and slow learners. The newly admitted students are familiarized with the vision, mission, core values and objectives of the institution during the induction program held in the beginning of the academic year.

Various innovative teaching methods like Google classroom, ICT, lecture capturing system (LCS), e-learning resources, certificate courses etc. are utilized in order to make the teaching learning process more effective. Faculties are encouraged to attend the FDPs, conferences to update the knowledge which helps in their professional development. Mentor mentee system helps the students in their overall growth and to solve any stress related issues.

The institution is joining hands with the government under various schemes such as Atal Tinkering lab, Unnath Bharath Abhiyan which promotes the peer teaching among students and helps in developing a better bonding towards the society. The feedback regarding the teaching learning process is taken from the students and based on the response suitable actions are taken. Class committee meetings and result analysis meetings are held regularly in order to resolve grievances if any related to academics and other related issues.

The institute adheres to the academic calendar and lesson plans prepared in the beginning of every semester.

The examination cell ensures the transparency in the assessment process. The institution follows the formative and summative assessment wherein continuous internal evaluation is done through internal tests, assignments, projects etc.in accordance with VTU regulations. Students are educated on Program outcomes (PO), Program specific Outcomes (PSOs) and Course Outcomes (COs) of their respective programs. The attainments of which are measured for every academic year through different strategies including results, placements, progression and student centric activities that make space for participate, experiential learning strategies.

Research, Innovations and Extension

Resource Mobilization for Research: In the last 5 years 68.632 Lakhs grants have been received for 29 research projects by the institution and these are sponsored by the government sources and other sources.

Innovation Ecosystem: More than 50 Invited lectures, workshops, seminars are organized by the institution to bridge industry-academia gap. Every year a national conference is organized. IOT club is working with a novel approach of “Ideate, Build and Work” model. To support the Nation mission ‘Make in India’, ‘Start-up India’ and ‘Stand-up India’ in association with EDII Ahmedabad under Department of Science and Technology Govt. of India, the ED cell of the institute organizes needy programs and provides platform to the budding Engineers. Six research centres in the various disciplines have been recognized by the Visvesvaraya Technological University. Research review cell monitors the research progress of the faculty members who have registered for Ph.D. The Innovation Club recommends innovative projects having technical and societal impact for financial support by the Universities and other agencies after scrutiny. The project titled "Process Automation of Terzaghi's concept" has secured 1st Prize at university level competition.

Research Publication and Awards: During last five years 44 research papers published in the UGC notified Journals and 42 papers published in national/ international conference-proceedings.

Extension Activities at SMVITM are Blood Donation Camps, Rally as part of the Observance of Geneva Convention Day, Cultural and technical programs during orphanage visit, Free Medical camp (Dental/ Eye/ General), Street play on plastic ban, Awareness talk on conservation of water and rain water harvesting systems, Swacch Bharath Seva programs, Voter Awareness Program, and Supporting Govt. Mission “Atal Tinkering Lab”. During the last five years more than 150 activities conducted and 22 awards / recognitions were received for extension activities from Government/recognized bodies

Collaboration: To expand the scope of learning experiences more than 100 linkages were established for faculty exchange, student exchange, internship, field trip, on-the- job training, research etc during the last five years. For making collaborative endeavour effective, close tie-ups with institutions of national, international importance, other universities, industries, corporate houses etc., were witnessed through 16 MoUs.

Infrastructure and Learning Resources

Physical Facilities: SMVITM is committed to provide the best infrastructures to cater academic and administrative needs. The campus is spread across 15 acres with a built-up area of about 28000 sq. m, consisting of 31 classrooms, 36 laboratories, 5 seminar halls, central library, training and placement department, hostels, canteen, playground, indoor and outdoor game facilities, gymnasium, one open-air auditorium, girls rest room and sick room. Well-equipped and maintained laboratories are available in each department to carry out curriculum based and research activities. E-learning facility is provided through

language lab, multimedia centre with wide set of applications. To develop research culture amongst students, research centres, centres for excellence are set up in different departments.

Library as a Learning Resource: Central Library is fully automated with *EasyLib* and is equipped with more than 2838 titles with 15928 volumes of books and journals related to engineering, competitive exams and self-help books. A separate group discussion room is provided for the students where they can sit together and discuss related to academics or trending technologies. The Institution is also a member of VTU E- Consortium and can access e-resources through digital library, multi media center.

IT Infrastructure: The Institution has 519 computers, of which 468 PCs are available for students in accordance with AICTE specified ratio. The Institution is a Wi-Fi enabled campus and has a dedicated 100Mbps leased line connection for academic and administrative purposes. CC cameras are placed at prominent places for security reasons. There are 24 classrooms with ICT enabled facility as an aid for teaching learning process. A separate Management Information System is developed in the Institute to support academic and administrative process.

Maintenance of Campus Infrastructure: Water purifiers are installed in all the departments, hostels and canteen to provide safe drinking facility. Transport facility is provided by means of college bus and can be availed by the students, teaching and non-teaching staff of the Institute. As an eco-initiative, Institute has set up STP with a capacity of 125 KL. To save electricity, 125 KW solar panels and solar water heaters are set up in the hostels for students' convenience.

Student Support and Progression

The President of the College, H. H. Shri Vishwavallabha Theertha Swamiji envisaged the holistic development of the students through excellence in Engineering education which not only builds careers but also the overall personality of the students who go on to become the enabled, valued laden and highly empowered citizens of the nation. The institution is committed to provide quality higher education at affordable cost. Hence inspired by the vision and mission of the Swamiji, a lot of philanthropists join the mission in providing access to higher education. Scholarships are provided to 72.53% of students through government and non-government agencies.

In tune with the Mission and Vision, the institution lays great emphasis on discipline, adherence to the core values, good citizenry principles and national goals and hence various committees have been set up in the institution, in terms of scholarships, placements, progression etc. Statutory Cells like Anti-Ragging Cell, Prevention of Sexual Harassment Cell, Student Council, and Alumni Cell are in place. Grievance Redressal mechanism is well taken care of by the Committee in sync with the views of the Students' Council as well as the guidelines laid down.

Quoting from our Institutes President message- "All facilities both human and otherwise will be provided for the young minds to blossom and meet challenges with confidence." – with this, all the faculty members and staff members work round the corner to see through the message is fulfilled at the right spirit. We undertake all the facilities/schemes mentioned through Various Cell/Department. Our efforts are bearing fruits as our students are blossoming in various industries/companies across the globe. Even about 10% of Alumni in each batch are making sure that their education is taken into a new dimension and progressing in well ranked Institutes and Universities.

Institute supports the students' Co-Curricular, Extra-Curricular and Physical/sports activities. We have designated departments/Cell to closely monitor and guide/train the students as and when required. Achievements are the reflection for these activities- Institute has been consistently bagging the prizes, overall

championship at various National/International Sports and Cultural Competitions.

Governance, Leadership and Management

SMVITM has well organized mechanism to provide effective governance and leadership at all levels. The institution has Governing Council, External technical advisory, Review committee and IQAC for taking policy decisions and strategic plan of actions. The management has adopted decentralized system and practices participative governance. *Strategic Perspective Plans* (SPP) framed are in tune with the vision and mission of the institution. It is deployed and executed through various bodies formed in the institute. The prevailing organizational structure ensures smooth execution of academic and administration processes assisted with e-governance.

Service rules, employee welfare schemes, promotion systems are at par with industry norms. Organization also has proper mechanism for handling grievances of faculty and staffs. The institute has well designed Performance Based Appraisal (PBA) mechanism for faculty and staff. Performance Appraisal Committee (PAC) reviews the same and recommends the annual increment/promotion for the faculty/staff based on the assessment score.

The institute supports professional development of faculty and staff. They are encouraged to attend/organize conferences, Faculty Development Programmes, Staff Development Programmes, seminars and workshops. About an average 36 % of faculty members have attended such programmes and 15 % of faculty are provided with financial support to attend the professional development programmes.

Efficient budgeting is done by the Institute based on the plans and needs of departments and sections. Consolidated institutional budget is presented by the principal for the approval of governing council. The Internal Finance Committee conducts internal audit half yearly and external financial audit is conducted through a chartered accountant at the end of every financial year. The resource mobilization is through fee deposits, consultancy, projects, bank term loans, sponsorship etc. The institute has received total amount of 56.818 lakhs from philanthropists for its various programmes in the last five years.

The Institution Quality cell /Internal Quality Assurance Cell (IQAC) aims at continuous enhancement of quality in teaching learning process and has initiated quality enrichment programmes. IQAC is also involved in review of structures & methodologies of operations. External and internal academic and administrative audit is undertaken periodically to improve institutional activities.

Institutional Values and Best Practices

All institutional practices, procedures and activities have always been following philosophy of gender equity. All resources and facilities are equally shared by male and female students. Responsibilities are assigned on merit-basis irrespective of gender. Institute is well known for its discipline and providing free yet safe and secured environment to student fraternity.

SMVITM has a lush green campus with a good variety of trees and plants. Institute is taking sincere measures in making campus free of plastic and promoting paperless office. Efforts are taken and systems are in place for management of solid waste and for liquid waste, an STP of capacity 125kL/day has been commissioned in the

Institute. E-waste is disposed off as scrap to the agencies annually. Institute takes conscious efforts to create awareness about energy conservation and renewable energy usage among staff and students. Grid connected solar power plant of capacity 125 kW has been installed in the campus.

Facilities such as lift, ramp, wheel chair and scribes are made available for the benefit of differently abled persons.

Institute believes in inculcating human values and ethics amongst the students and staff. Code of Ethics, Handbook on code of conduct/ SOPs for Academic and Administrative Processes is prepared and made available in the various departments. Institute promotes transparency in financial, academic, administrative and its auxiliary functions. Institute celebrates birth and death anniversaries of legends along with enthusiastic celebration of national festivals.

Many practices have evolved during recent years which have made significant impact on the functioning of the institute. The best practices include innovative teaching mechanisms, mentoring, academic audit, special skill development programs for students and staff, community outreach through activities and research and digitization of office and library. The two best practices included here are “teacher guardian/faculty advisor scheme” and “community outreach”. These practices ensure the progress of the institute towards its vision and mission.

With the concept of “Holistic Education”, which aims at achieving ‘engineering one’s career and character with care’, the institute has provided education a new definition.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT
Address	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT VISHWOTHAMA NAGARA PO BANTAKAL UDUPI-574115
City	UDUPI
State	Karnataka
Pin	574115
Website	www.sode-edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	THIRUMAL ESHWARA BHAT	0820-2589182	9449330555	0820-258918 4	principal@sode- edu.in
IQAC Coordinator	SUDARSHA N RAO K	0820-2589183	9448252890	0820-429400 6	mech@sode-edu.in

Status of the Institution	
Institution Status	Self Financing and Private

Type of Institution	
By Gender	Co-education
By Shift	Regular Day

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details				
Date of establishment of the college		20-08-2010		
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name	Document		
Karnataka	Visvesvaraya Technological University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-04-2018	12	For one academic year

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

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT VISHWOTHAMA NAGARA PO BANTAKAL UDUPI-574115	Rural	15	28034

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	Pre University Education	English	54	48
UG	BE,Computer Science And Engineering	48	Pre University Education	English	108	99
UG	BE,Electronics And Communication Engineering	48	Pre University Education	English	108	83
UG	BE,Mechanical Engineering	48	Pre University Education	English	108	78
Doctoral (Ph.D)	PhD or DPhil,Civil Engineering	60	M.Tech	English	2	0
Doctoral (Ph.D)	PhD or DPhil,Electronics And Communication Engineering	60	M.Tech	English	2	2
Doctoral (Ph.D)	PhD or DPhil,Mechanical Engineering	60	M.Tech	English	4	4
Doctoral (Ph.D)	PhD or DPhil,Physics	60	M.Sc	English	2	0
Doctoral (Ph.D)	PhD or DPhil,Chemistry	60	M.Sc	English	2	1
Doctoral (Ph.D)	PhD or DPhil,Mathematics	60	M.Sc	English	2	2

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	6				6				86			
Recruited	6	0	0	6	4	2	0	6	51	35	0	86
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				93
Recruited	49	44	0	93
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				31
Recruited	23	8	0	31
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	0	0	2	2	0	0	0	0	10
M.Phil.	0	0	0	0	0	0	0	4	0	4
PG	0	0	0	2	0	0	51	31	0	84

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

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

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	12		1		13

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	5	0	0	0	5
	Female	3	1	0	0	4
	Others	0	0	0	0	0
UG	Male	184	12	1	0	197
	Female	108	2	1	0	111
	Others	0	0	0	0	0

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

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	4	7	8	6
	Female	1	9	7	5
	Others	0	0	0	0
ST	Male	4	7	4	6
	Female	2	4	3	3
	Others	0	0	0	0
OBC	Male	129	162	200	190
	Female	85	105	127	119
	Others	0	0	0	0
General	Male	59	59	51	85
	Female	24	36	41	60
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		308	389	441	474

3. Extended Profile

3.1 Program

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

Response: 1538

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	7	6	6	4

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1438	1618	1612	1471	1077

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
189	210	210	210	210

File Description	Document
Institutional data in prescribed format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
403	419	370	218	105

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

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

2017-18	2016-17	2015-16	2014-15	2013-14
98	100	105	91	77

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
98	100	105	91	77

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 36

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

2017-18	2016-17	2015-16	2014-15	2013-14
982.4472393	1051.5111107	1051.7109627	1000.50007	910.2333223

Number of computers

Response: 418

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

The institute is affiliated to Visvesvaraya Technological University, Belagavi (also approved by AICTE, New Delhi, recognised by the Govt. of Karnataka). It being an affiliated institution, the syllabus is prescribed by the affiliated university. However, the institution develops its own curriculum in tune with the Vision, Mission, Core values and the requirements of the syllabus. The institute has developed well defined plans for the effective and efficient implementation of the curriculum. The institute has a very systematic mechanism in developing and deploying action plans for effective 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. Well planned academic calendar with information on dates of class commencement, internal assessment, practical examinations and end semester examination exists. It gives planned dates on co-curricular activities and extra-curricular events. In the beginning of the term, the institution uploads the calendar on the website of the institution and accordingly the faculty members prepare the teaching plan. The Heads of Departments allot the subjects to the faculty members according to the area of their expertise before the commencement of semester vacation. 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 like NPTEL, MOOC etc. The institute provides plenty of opportunities and offers relevant courses to develop the skills and practical knowledge through 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 and paper presentations to strengthen their knowledge whereas remedial classes are conducted for slow learners. Institution promotes faculty members to attend orientation programs, seminars, and conferences for enriching knowledge.

Initiatives taken for effective curriculum delivery

- All classrooms and laboratories are equipped with resources like ICT/LAN/WiFi to promote effective curriculum delivery.
- Students are made aware of the curriculum through practical experience, hands on training / workshops / guest lectures to enhance interpersonal and communication skills.
- Student centric teaching-learning methods are used by the faculties for effective curriculum delivery mechanism.
- Class committee meetings are held after every internals assessment tests and during meeting, the students representatives share their difficulties and grievances related to academic matters.

- Student's feedback on learning, teaching and curriculum forms a component of a system for quality improvement, quality assurance and reward and recognition of teaching quality.
- Institute procures good number of books and journals every year for the benefit of staff and students to enhance the subject /technical knowledge.
- Institute regularly organizes faculty development programs and the experts are invited from industries and premier institutions like NITs, IITs.
- Further the curriculum templates prepared by the faculty include issues on gender, environment, ethics, values, responsible citizenry.

File Description	Document
Any additional information	View Document

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

Response: 20

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

2017-18	2016-17	2015-16	2014-15	2013-14
04	05	03	06	02

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Details of the certificate/Diploma programs	View Document

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

Response: 0

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

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

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility

<p>1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</p> <p>Response: 24.06</p>	
<p>1.2.1.1 How many new courses are introduced within the last five years</p> <p>Response: 370</p>	
File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document
Any additional information	View Document

<p>1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented</p> <p>Response: 71.43</p>	
<p>1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.</p> <p>Response: 5</p>	
File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Any additional information	View Document

<p>1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</p>

Response: 55.07

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1438	1471	289	576	235

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

1.3 Curriculum Enrichment

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

Response:

The syllabus has integrated courses that are diverse and cater to the cross cutting issues relevant to sustainable environment, gender equality, human values and professional ethics. The Institution believes that integrating cross cutting issues with the curriculum would create positive effect on the students both in terms of their education and societal commitment. Syllabus includes following courses related to the above mentioned issues:

Sl. No.	Subject	Subject Code	Offered to	Subject relevant to
1	Environment impact assessment	10CV847	8 sem BE	Environment and sustainability
2	Industrial wastewater treatment	10CV835	8 sem BE	Environment and sustainability
3	Solid waste management	10CV757	7 sem BE	Environment and sustainability
4	Environment protection management	15CV662	6 sem BE	Environment and sustainability
5	Sustainability concepts in civil engineering	15CV562	5 sem BE	Environment and sustainability
6	Rural water supply and sanitation	10CV666	6 sem BE	Environment and sustainability
7	Alternate building materials and technologies	10CV662	6 sem BE	Environment and sustainability
8	Environmental studies	15CIV18/28	1 sem BE	Environment and

				sustainability
9	Constitution of India, professional ethics and human rights	15CPH18/28	1 sem BE	Human values and professional ethics
10	Management and entrepreneurship	10AL51	6 sem BE	Human values and professional ethics
11	Applied engineering geology	10CV36	3 sem BE	Environment and sustainability
12	Hydrology & irrigation engineering	10CV55	5 sem BE	Environment and sustainability
13	Non-conventional energy sources	10ME754	7 sem BE	Environment and sustainability
14	Total quality management	10ME758	7 sem BE	Environment and sustainability
15	Product life cycle management	10ME769	7 sem BE	Environment and sustainability, Human values and professional ethics
16	Biomass energy systems	10ME843	8 sem BE	Environment and sustainability
17	Energy engineering	10ME53	5 sem BE	Environment and sustainability

Institute has also signed MoUs with various organizations actively working on environment protection and sustainability. Cross cutting issues related programs/activities are organized by the following committee/cell

- Women's Empowerment /Prevention of Sexual Harassment Cell (Sabale)
- Counselling Cell (Aasare)
- NSS, YRC and Rotaract club
- Eco Club (Prakrathi)
- Human rights/ Equal Opportunity Cell (Jagrati)
- Community Orientation Club (Unnathi)

Women's Empowerment Cell with an objective of reducing customary inequality between men and women, conduct various awareness programs. Events such as personality development workshop, debate on gender equity, street play etc are organized under the gender equity program. Eco club regularly organizes programmes such as Campus cleaning, beach cleaning, Vanamahotsava, Swachha Bharath Abhiyan, World Ozone day are some of the initiatives taken in this direction. The institute maintains lush greenery campus and efforts are taken to gradually make the campus a plastic free campus. NSS club being a very active club conducts programmes on health and hygiene for the public on and off the campus. Every semester NSS conducts blood donation camp, eye check-up and basic health check up in the campus for

the benefit of local community. Human rights/ Equal opportunity cell organises the Independents day, Republic day, Gandhi Jayanthi, Engineers' Day, Teachers' day in the campus which inculcate values and ethics.

File Description	Document
Any Additional Information	View Document

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 17

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 17

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 30.18

1.3.3.1 Number of students undertaking field projects or internships

Response: 434

File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above**Response:** A.Any 4 of the above

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

1.4.2 Feedback processes of the institution may be classified as follows:**A. Feedback collected, analysed and action taken and feedback available on website****B. Feedback collected, analysed and action has been taken****C. Feedback collected and analysed****D. Feedback collected****Response:** A. Feedback collected, analysed and action taken and feedback available on website

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

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

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

Response: 3.47

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

2017-18	2016-17	2015-16	2014-15	2013-14
49	54	56	51	39

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 98.77

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

2017-18	2016-17	2015-16	2014-15	2013-14
308	389	441	474	428

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

2017-18	2016-17	2015-16	2014-15	2013-14
378	420	420	420	420

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

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

applicable reservation policy during the last five years**Response:** 26.75

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

2017-18	2016-17	2015-16	2014-15	2013-14
26	47	72	95	38

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

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

Immediately after the end of the admission process for the academic year, the database of the students newly admitted to the institution will be created. Based on the performance in Pre-University exams (plus 2), the students are grouped as advanced learners and slow learners. Orientation Program will be held for new batch of students every year before the commencement of semester program. This program is followed by Induction program which helps the students to get familiar with the Institution, its facilities, the program structure and the learning environment. Induction program is held during the first three days for the newly joined batch of students. Bridge course is conducted to strengthen the basics.

Programs conducted for advanced learners

- Advanced learners are encouraged to take the lead in various institutional activities such as national conference, State level student symposium cum project exhibition on Industrial Internet of Things, ISTE students' chapter, student council and in various clubs.
- Under the supervision of advanced learners peer learning is promoted in the classrooms, laboratories and also through technical activities/competitions to improve the performance, teamwork and problem solving skills of the slow learners.
- Advanced learners are encouraged to take part in "Lead Prayana", an annual program organized by Deshpande Foundation, in which many organizations and villages are visited and interaction with industry executives and achievers are arranged.
- Research Committee promotes the students to carry out mini projects and to participate and present their findings in the form of technical papers in national/international conferences and also exhibit the models in project competitions.

- Advanced learners are encouraged to participate in national /state level technical competitions such as hackfest.
- Motivational Talks by eminent personalities are routine programs in the Institution.
- Training and Placement Cell organize sessions so as to make them ready for facing selection and recruitment process conducted by companies during final year of their B.E program.
- The advanced learners are encouraged to give seminars and participate in the intercollegiate level paper presentations

Programs conducted for slow learners

- Remedial classes are being conducted to the slow learners so that they can cope up with the syllabus and the examination.
- At the end of first and second internal assessment tests, the progress reports will be sent to all the parents and the parents of slow learners are informed to meet the teacher guardians/faculty advisors. Thus teachers and parents work together in overcoming the difficulties faced by the students.
- The *teacher guardians/faculty advisors* regularly meet the students to know their needs and issues. If required proper counseling will be given through the Counseling Cell.
- The students are provided with the study materials, model question papers which help them to orient properly towards the examinations.
- To increase the confidence level and to have a better bonding with the society, the students are encouraged to involve themselves in activities related to the benefit of the society through NSS/YRC/eco club etc.

File Description	Document
Any additional information	View Document

2.2.2 Student - Full time teacher ratio

Response: 14.67

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.07

2.2.3.1 Number of differently abled students on rolls

Response: 01

File Description	Document
Institutional data in prescribed format	View Document
Any other document submitted by the Institution to a Government agency giving this information	View Document

2.3 Teaching- Learning Process

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

Response:

Experiential Learning

- **Mini projects**-To help the students to mature as engineers and to impart practical knowledge, the institute encourages the students to carry out mini projects.
- **Industrial Visit, Field trips and internships** bridge the gap between the education and practical applicability in industries.
- **Case studies** are given in some courses to have better understanding of certain topics with real life scenarios.
- **Well-equipped laboratories in each department** support the experiential learning and improve the student's practical skills.

Participative Learning

- **Guest lectures** and invited talks arranged in every department will enrich the knowledge of the students in the area of latest technologies.
- Activity based learning is supported through the usage of **models** during the lectures which helps in better understanding of the concepts.
- Students are encouraged to take up **NPTEL** courses for the better understanding of subjects.
- Different courses are taught in interactive mode with Q&A sessions, solving problems with students.
- **Group discussions/Quiz/class seminars** conducted at the department level enhances the communication skill, creative thinking and teamwork among students.
- **Open electives** offered by each department help the students to carry out interdisciplinary projects in their interested domains. Elective courses are offered as per the options given by the students.
- The students' involvement as members in various committees for the events organized in the institution helps them to improve their personal skills.
- 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.

Problem solving methodology

- **Pre placement training sessions** conducted by Training and placement department mainly focuses

on problem solving methodology which enhances the students' competency during placements and competitive examinations.

- To cultivate a sense of social responsibility the students of final year are guided to **carry out Community oriented projects** which are specifically oriented on solving societal problems.
- In order to promote green initiatives the students voluntarily take the ownership for developing **Innovative Web applications for Institute's flagship events such as Varnothsava, IIOT, Avishkar.**

As per the motto of SMVITM i.e. "Engineering your Career and Character with Care", the institute takes utmost care to see to it that the students will not only graduate out as an engineer but also as a responsible person in the society. Thus various committees function in this direction and also each of them focuses on the social interaction skills of students.

- **Activities such as street play/planting of saplings** organized by Community club and Eco club orient the students to think over the problems in the society and make an effort to create public awareness.
- **Social interaction** like visit to Asha Nilaya, Blood donation camps, Swachata Abhiyan sensitize the students to interact with needy people and helps in developing life skills. Participation in Unnat Bharat Abhiyan helps students to understand the real problems of the villages & villagers.

File Description	Document
Any additional information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 69.39

2.3.2.1 Number of teachers using ICT

Response: 68

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

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

Response: 17.75

2.3.3.1 Number of mentors

Response: 81

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

ICT enabled teaching-learning

- In order to make the students more interactive and to make learning more effective, ICT enabled teaching is encouraged in the classrooms in addition to traditional blackboard discussion. **Wi-Fi enabled class rooms and LCD projectors** enable the students to visualize the contents through power point presentations/videos.
- **Google classroom** is effectively adopted by the faculty members to promote the learning activities beyond the curriculum and also to provide a forum to discuss the subject matter, for distribution of videos, ppts, assignments, notes etc.
- The teaching learning activity is promoted by some of the faculty members by creating the web blogs. This will help in updating the knowledge and also in the interaction process with the students.
- **ILMS** is made available for the students and faculty members for the seamless functioning of the central library. E-books, e journals are being used by the students for their projects and seminars.

Projects/certificate courses

- Students use the technology imparted in the curriculum to develop related hardware and software applications in the form of projects.
- The students and faculty members are encouraged to present/publish their findings in the form of technical paper in national/international conferences/journals, so that the novel ideas are publicized and the inventors' confidence level increases once the ideas are implemented.
- Certificate courses/add on courses offered by the departments help the students to bridge the gap between academics and industry, to learn beyond the syllabus and to have in- depth knowledge of a given subject.
- To inculcate the interest and involvement in research, students are encouraged to write the project proposals under the guidance of faculty member for funding from various government agencies like VGST, KSCST.
- The students are encouraged carry out the community oriented projects so that the outcomes of the projects are beneficial to the society.

Harnessing the innovative culture amongst students

- In order to simplify the procedure of registration the students of SMVITM are given the opportunity to **design the webpage/apps** for the intercollegiate techno –cultural fest “**Varnothsava**”.
- “**Techlikhith**” program of ISTE helps the students to think on the latest topics and to write

articles.

- **State of the art laboratories**, well equipped with latest software and equipments enable the students to implement their ideas.
- **Creativity center** which has two specialized kits consisting of mechanical components are used to build mechanism model that can help the students understand their functioning in a better way.
- The institute promotes best practices like “**learn through teaching**”, wherein students take part as little mentors and visit identified schools and join hands to the government mission “**Atal Tinkering Lab**” by demonstrating arduino boards to the school students.
- **IIoT Club** is working with a novel approach of “Ideate, Build and Work” model. To provide a fostering environment for the students and to implement their ideas and get hands-on experience across the various IoT application domains, the club conducts national/state level student Symposium/ Project Exhibition on Industrial Internet of Things.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years	
Response: 100	
File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years				
Response: 9.29				
2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years				
2017-18	2016-17	2015-16	2014-15	2013-14
10	9	11	7	7

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

2.4.3 Teaching experience per full time teacher in number of years

Response: 7.26

2.4.3.1 Total experience of full-time teachers

Response: 711.25

File Description	Document
Any additional information	View Document

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

Response: 1.06

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

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

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

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

Response: 6.34

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

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	6	8	7

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

2.5 Evaluation Process and Reforms

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

Response:

The examination and CIE in various aspects are prescribed by VTU, Belagavi and the institute follows the rules and regulations set by the university. Apart from these, the institute conducts various technical and non-technical events to assess the student qualities.

Formative Assessment

The formative assessment of students is done frequently during the course of semester to support them in both academic and extracurricular areas. CIE is implemented in academic areas using different evaluation techniques such as 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 SMVITM Management Information System (MIS). This documentation helps to understand the progress in the learning capabilities of 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 of the students if any are discussed in detail and actions are suggested and the same are deployed by the faculty. Parents of the poor performers are requested to meet the mentors, to have close discussion about student's performance whenever necessary.

As a part of continuous internal evaluation, student's 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

The assessment of students in academic and non-academic areas at the end of the semester is 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 i.e., the subject knowledge and skill are 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 marks are allocated to the

work carried out by the student as per predetermined scheme provided by the university.

In case of the practical courses, the record work, experimental work are observed and valued. The marks are allocated based on the university scheme.

Seminars-The students are required to present a seminar. The seminars are evaluated by the seminar coordinators, project Guide and other faculty. The average of the marks allotted is considered as the final internal marks for the seminar.

Internships or Professional Practice/Project Work-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.

File Description	Document
Any additional information	View Document

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

Response:

Transparency in the Mechanism of Internal Assessment

- At the beginning of every semester, the Examination cell plans and schedules the Internal Examinations for theory courses into the Academic Calendar of the college. Assignments, quizzes, seminars, etc. are conducted by various course handling faculty members to measure the learning levels of the students and provide guidance to the students wherever necessary. The Course Outcomes (COs) are measured at the end of the semester using the metrics of the various tests conducted during the course of the semester.
- The questions for the tests are based on the Bloom's taxonomy to assess the student at different cognitive levels. In order to have uniform assessment of all the students of a particular course, a scheme of valuation is prepared for the theory examinations and assessment is based on this scheme.
- The question pattern of the internal tests will be mentioned to the students by the course handling faculty member so that the students are aware of the same.
- The questions papers will be sent through e-mail to the respective Examination Management System (EMS) coordinators so that the secrecy of the question paper is maintained. The EMS coordinators will take the printout of the question papers and store them safely until the end of the examinations. The internal examinations are conducted as explained in the Examination Cell Policy.
- Students are allowed to go through their answer scripts, once the valuation process is completed. Question paper and the scheme are discussed in the classroom by the concerned faculty member.
- IA marks and attendance status are displayed in the department notice boards after the each internal test. Marks will be updated in the student Cumulative Performance Diary to have the continuous evaluation. Final IA marks will be verified in the department level and will be uploaded in the VTU portal.

Robust in terms of variety and frequency

- At the beginning of each semester, the course handling faculty member shall define the topic level outcomes for each course. Each topic level outcome is assessed using a particular method which will be decided by the faculty. The assessment techniques can be quizzes, assignments, seminars, surveys, etc.
- The assessment tests used by the faculty member are part of the continuous internal evaluation and are held frequently during the semester and the results of such tests are discussed with the students.
- Result analysis Meetings are conducted regularly and cumulative opinions are collected and implemented.

File Description	Document
Any additional information	View Document

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

The institution ensures that examination related grievances are sorted out in a proper manner. The mechanism to deal with examination related grievances in the institutional level and the university level is given as follows.

At the institutional level

- After each internal test the answer scripts are distributed among students. If the students are having any issue regarding the assigned marks, they can discuss the same with the concerned faculty member. If still not resolved it is brought to the notice of higher authorities and proper measures are taken.
- After each internal the class committee meetings are conducted in the presence of the respective branch HoDs and mentors of the class. A group of students is selected which includes advanced learners, slow learners, hostelites etc. If the students are having any kind of grievances related to question paper or syllabus coverage, it is informed to the concerned HoD and necessary action is taken.
- At the end of each semester, the faculty members finalize the marks for the internal tests and the same are displayed in the notice boards for the students to verify for any discrepancies.
- The finalized marks are uploaded by the faculty into the university portal and are approved by Principal/HoD after due confirmation with the respective faculty.

At the university level (summative)

- Liaison Officer of the institute deals with the examination related grievances if any. A log book is maintained in the office in which the exam related grievances are recorded.
- If any student has any grievance related to marks scored in the semester examinations, he/she can apply for the revaluation. The student is allowed to get the photocopy of answer script from the

university for theory examinations. The photocopy of the answer script shall be mailed to the student. By going through the answer papers along with the discussion with the concerned faculty the student can apply for the revaluation. The revaluation application forms are entered into the university examination portal by the departmental EMS coordinators and the application forms are verified for their correctness by the students before the last day of application process. In each branch, there are EMS coordinators who guide the students while applying for the revaluation.

- Institutional grievance redressal committee (IGRC) will resolve examination related grievances received by it with the help of examination cell.

File Description	Document
Any additional information	View Document

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

Response:

- 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.

File Description	Document
Any additional information	View Document

2.6 Student Performance and Learning Outcomes

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

Response:

Under the affiliation to VTU, Belagavi, the COs are defined in the syllabi and also published in Academic regulations, Curriculum book, and departmental website. It is made reachable to all the stakeholders of the program through education, faculty workshops, student awareness workshops, student induction programs and faculty meetings. The program outcomes and program specific outcomes are achieved through a curriculum that offers a number of courses.

Every department has clearly defined Programme outcomes (PO), Program specific Outcomes (PSOs) and Course Outcomes (COs). They have been articulated by taking inputs and suggestions from every stakeholder and are nicely stated and displayed on notice boards and discussed in the classrooms as well as available on website along with them printed in their laboratory manuals. Also COs are available in course files maintained by every faculty. The PO and PSOs are aligned with institute's vision and mission statement. Each CO is linked to the program outcomes and a set of performance criteria that are used to provide quantitative measurement of how well COs are achieved. The COs are thus directly and quantitatively assessed, and are tied to the program outcomes and program specific outcomes. Therefore if the COs is attained, that provides direct quantitative evidence that program outcomes are also attained.

Program Outcomes (Dept. of E&C):

1. Develop skills to solve engineering problems by using mathematical, scientific and engineering knowledge.
2. Recognize, define, conduct literature survey, examine complex engineering problems and draw conclusions using the principles of mathematics, science and engineering.
3. Express ideas, devise implementation strategies, plan execution and synthesize solutions, which are favorable for aspects of public health and safety as well as for cultural, societal and environmental conditions.
4. Investigate complex problems by conducting experiments and validate the results.
5. Employ necessary techniques using modern hardware and software tools for engineering applications.
6. Reckon and address the societal, health, safety, legal and cultural issues and adopt responsibilities adhering to professional engineering practice.
7. Estimate and attend to environmental safety issues by means of engineering practice.

8. Understand and apply professional ethics for issues relevant to the engineering practices.
9. Work as a member of a multidisciplinary project or research teams and have an understanding of leadership in teams and organizations.
10. Produce engineering reports and express the ideologies effectively.
11. Apply managerial skill in handling projects as a member and leader of a multi-discipline team.
12. Evolve through lifelong learning process to keep one updated in technological changes.

Program Educational Objectives (PEOs) (Dept. of E&C)

1. Exhibit essential knowledge of applied sciences, mathematical modeling, logical interpretation and virtual realization to resolve real-time problems in the field of Electronics and Communication Engineering.
2. Work productively as an Electronics and Communication Engineer, including supportive and leadership roles on multidisciplinary teams.
3. Inculcate effective communication skills to excel in professional growth.
4. Take part in lifelong learning in pace with the advancing technological society.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document

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

Response:

The attainment of Cos have been ensured through internal assessment tests, assignments, quiz and other tools such as one-minute test, debate, seminar, open-book test conducted in the class. The attainment of POs and PSOs are based on the attainment of COs of all courses, end semester examination and indirect assessment tools such as surveys, feedback collected from time to time.

Rubrics are formulated for the assessment of attainment of COs of all courses with respect to set attainment levels. The target level of COs is set as 70% based on the cognitive level of CO by course instructor at the beginning of the semester. The attainment of each CO is computed by setting the class average mark as the target. The COs of each course are mapped to POs & PSOs with weights of 1(weak), 2 (medium) and 3 (strong). Every topic is weighed according to the Bloom's Taxonomy to compute the weights individually.

Attainment of Program Outcomes and Program Specific Outcomes:

i) Direct assessment: Direct assessment is done by evaluating seminars, assignments, quizzes, mini project evaluations which is given by the individual faculty for that particular course. The performance of the students in the examinations during the internal assessment and end semester in each course is used to compute the level of attainment of the POs and PSOs through the mapping of questions to COs and COs to

POs and PSOs. CO-PO mapping for all the courses in the program is prepared by the course coordinator.

ii) Indirect assessment: Indirect assessment is done by the feedback, which is collected through an on-line survey from the students about strengths of our graduate program, aspects needed to strengthen the quality of our graduate education and about the most and least likeable aspects in the instruction (Program Exit Survey). In addition to this, student portfolios (Co-curricular, Extra Curricular, Placement, Higher studies, etc.) for the final attainment of POs & PSOs are also mapped aided by a questionnaire.

File Description	Document
Any additional information	View Document

2.6.3 Average pass percentage of Students

Response: 96.18

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

Response: 403

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

Response: 419

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.59

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 68.63

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

2017-18	2016-17	2015-16	2014-15	2013-14
21.397	15.985	6.263	17.77	7.217

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

3.1.2 Percentage of teachers recognised as research guides at present

Response: 8.16

3.1.2.1 Number of teachers recognised as research guides

Response: 8

File Description	Document
Any additional information	View Document

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

Response: 1.76

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

Response: 33

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

Response: 94

File Description	Document
Supporting document from Funding Agency	View Document
Any additional information	View Document
Funding agency website URL	View Document

3.2 Innovation Ecosystem

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

Response:

Since the quality of any higher education institute is measured in terms of knowledge assimilation, dissemination and generation. SMVITM is giving thrust to all these aspects. Creation of knowledge requires information collection, idea generation, idea conceptualization, prototype building, and product developing.

Knowledge Assimilation (Collection of Information)

- SMVITM has subscribed to VTU consortium wherein plenty of e-resources are available for reference. Carefully made extensive literature not only leads to generation of new ideas but also gives the information about redundancy of ideas, work carried out on related ideas. Literature survey has been mandated even for Final year project topic selection. Invited lectures, workshops are organized on the topics related to research, innovation, research publications, IPR, research methodologies.
- Swayam - NPTEL courses like research writing is introduced.
- Faculties are encouraged to participate in FDPs/Conferences on current topics organized in the institute or in other institutes with monetary benefits.
- With the installation of IEEE student branch, students are opened into world of innovation as they will be subscribed to magazines like IEEE spectrum (which only deals with innovations and inventions).
- Every year a national conference is organized wherein the current research trends, developments are presented and discussed through invited talks and paper presentations.
- Six research centers in the various disciplines are recognized by the Visvesvaraya Technological University(VTU) , Research-review cell monitors the research progress and Institute supports by providing 5% of the basic pay as research allowance to the PhD registered faculty.

Idea conceptualization, prototype building, and product developing.

- Incubation centre is setup in the institution and incubated a Centre for Product Development(CPD) which is associated with Sangamone Connected Services Pvt Ltd, Navi Mumbai, and focused on

fostering innovation among interested students to develop new products, encouraging students to participate in incubation programs leading to start-ups and provide technical support and marketing support for start-ups to scale up.

- To address the real world challenges, IOT club is working with a novel approach of “Ideate, Build and Work” model where students can ideate on solutions for real time problems in the arena of IOT, build the rapid prototypes of their ideas and come up with a working model. IOT club conducts National/State Level Student Symposium/ Project Exhibition on Industrial Internet of Things.
- To ensure overall growth of the students, SMVITM trains the students to take-up the responsibility as job providers. To support the Nation’s mission ‘Make in India’, ‘Startup India and Standup India’ the ED-cell of the institute in association with EDII Ahmedabad under Department of Science and Technology Govt. of India, organizes needy programs and provides platform to the budding Engineers.
- Final Year Project Selection and Evaluation process followed in the institute enables the students to come out with innovative projects. The innovative projects which have technical and societal impact are financially funded by the Universities and other agencies. In particular VTU, Karnataka State Council for Science and Technology(KSCST), Vision Group of Science and Technology(VGST) support the student groups financially.

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

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

Response: 68

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

2017-18	2016-17	2015-16	2014-15	2013-14
13	18	17	12	8

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

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research	
Response: Yes	
File Description	Document
Institutional data in prescribed format	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards	
Response: Yes	
File Description	Document
e- copies of the letters of awards	View Document
Any additional information	View Document

3.3.3 Number of Ph.D.s awarded per teacher during the last five years	
Response: 0.25	
3.3.3.1 How many Ph.Ds awarded within last five years	
Response: 2	
3.3.3.2 Number of teachers recognized as guides during the last five years	
Response: 8	
File Description	Document
URL to the research page on HEI web site	View Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years	
Response: 0.47	
3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years	

2017-18	2016-17	2015-16	2014-15	2013-14
10	14	6	5	9

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

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

Response: 0.45

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

2017-18	2016-17	2015-16	2014-15	2013-14
20	8	4	8	2

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

3.4 Extension Activities

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

Response:

SMVITM believes that holistic education is a blend of curricular based formal education with extra-curricular activities. NSS/YRC/RC, Community, Human Rights, Co-curricular, Extra-curricular and ECO club of SMVITM works selflessly in the society with the noble agenda of transforming youth to a responsible nation builder.

Extension Activities	Impact and Sensitising students
Blood Donation Camps	It played a crucial lifesaving role in the past years. Such programs are gradually seeding selfless service-oriented thoughts in young budding engineers. Students learn coordination and management skills.
Rally as part of the "Observance of Geneva Convention Day"	The awareness rallies have transformed youth to the responsible citizens of the country and students are improving respect for international humanitarian law.
Ashanilaya Visit(Orphanage) and organizes cultural programs	Students with the agenda of social service have marched towards the downtrodden and who have lost hopes in their lives. Students learn interpersonal skills and coordination skills. They develop moral and philosophical approach to life when they participate in such events.
Talk on "Consumer and Human rights"	NSS works hard to spread awareness about Fundamental Rights and Consumer Laws to general public also which has received appreciations. Students learn the legality to fight against the unlawfulness.
An Inter-collegiate Technical and Cultural Fest "VARNOTHSAVA"	It provides a platform for engineering students across the state to exhibit their technical and extracurricular talents. An aspirant of technical and professional education has found these programs useful in their later career and fruitful to combat the day to day challenges of life.
"AVISHKAR", Annual Intercollegiate Science Model Exhibition-Cum-Competition for Pre-University College students	For young budding minds a window is created to welcome, encourage, showcase their hidden talent and pursue the applied science culture at our premises. Students learn coordination skills.
Free Medical camp	To serve the public, who resides in and around the institution premises and also to extend the help for the under privileged villagers. Students learn community servicing skill.
Street play on plastic ban, awareness talks on conservation of water and rain water harvesting systems, Swacch bharath seva programs	To propagate social and environmental messages amongst people and to educate the people to become a responsible citizen of the nation. Students learn leadership, interpersonal and intrapersonal skill.
Voter Awareness Program in the institute premises	To motivate students to cast their valuable vote in order to make their voice heard and helping them to involve in nation building mission.
Supporting Govt. Mission "Atal Tinkering Lab"	Students and faculty from SMVITM are training children at schools in latest technologies.

NSS-YRC-RC is a multifarious organization, working in various capacities during critical conditions like natural calamities, road accidents etc. They are seen as volunteers in social services like donating blood and as the ultimate life savers on numerous occasions. Community, ECO and Human rights works together to create awareness about environmental cleanliness, fundamental human rights and laws, societal menaces, drug abuse, etc. among people. Students are greatly benefitted with overall personality

development through all these meaningful programs.

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

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

Response: 1

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

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

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

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

Response: 120

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

2017-18	2016-17	2015-16	2014-15	2013-14
29	31	26	20	14

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

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

Response: 36.84

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

2017-18	2016-17	2015-16	2014-15	2013-14
734	771	593	378	248

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

3.5 Collaboration

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

Response: 148

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

2017-18	2016-17	2015-16	2014-15	2013-14
36	42	37	16	17

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

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 23

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

2017-18	2016-17	2015-16	2014-15	2013-14
6	7	5	4	1

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

Facilities for teaching learning process

Shri Madhwa Vadiraja Institute of Technology and Management is an Institution with nine years of standing and is committed to provide all the necessary infrastructure to suit the demands of the courses and stake holder requirements.

- The Institution is situated in an area of 72 acres with a built-up area of around 20000 sq.m consisting of classrooms, laboratories, workshop, boardroom, seminar halls, staff rooms, placement blocks, central library, Administrative block, canteen, hostels, playground, gymnasium, open air auditorium.
- The Institution is situated in a noise free and pollution free environment. Spacious and well-ventilated classrooms are available to allow circulation of fresh air.
- Electronics and Communication Department, Mechanical Department and Civil Department have devoted and separate blocks. Central Library and Placement block has a dedicated building.

Details on Classrooms, Tutorial Rooms, Seminar Halls

- The Institution has adequate number of classrooms and this is verified and approved by AICTE. The classrooms have the provision for good lighting, avoiding unnecessary expenditure on electricity consumption through lights, Fans and ACs.
- The classrooms have LCD projectors, with Wi-Fi/LAN connections. The facilities are created to enable an effective and efficient teaching-learning transaction.
- Each department has tutorial classrooms or regular classrooms to conduct remedial classes to address the needs of slow learners.
- Tutorial hour is included in the timetable every semester to enable better usage of tutorial rooms and also to help slow learners to understand the concepts in a better way.
- The institution has four seminar halls to conduct conferences, workshops and symposia for students, faculty/staff. It is equipped with LCD projector, white board and public address system.

Details of Laboratories and Research Labs

- Well equipped, and well-maintained laboratories with sufficient hardware and licensed/open source software are available in each department to carry out curriculum-oriented lab practical, hands on sessions and research activities. All computer labs are provided with Uninterruptible Power Supply (UPS).
- Experienced and designated lab personnel are available for the maintenance of labs and guiding students.
- E-learning facility is provided through multi media centre, language lab covering a wide set of applications and processes and virtual labs learning.

- To inculcate research culture among students and faculties, research labs, creativity centre, centre of excellence for Artificial Intelligence, testing and consultancy cell are set up in various departments.

Details about Computing facilities

- There are 519 computers in the Institution as an aid in teaching learning process. The number of computers available for students is way ahead of AICTE specified student computer ratio. i.e., 1:6.
- PCs are available for students in laboratories to carry out their regular laboratories and also for their experiential learning.
- Many system software and application software have been purchased to improve students' core, intra and interpersonal skills.
- The Institution has Wi-Fi connectivity throughout the campus that allows students, faculty/staff to access any e-content that enhances their knowledge and skills.
- Institution has 100Mbps of leased line internet connection to cater the academic and research needs of campus.

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

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

Response:

Sports and games

- Keeping in view the importance of sports in today's era and its position in shaping individual's personality, health and fitness, SMVITM emphasizes on student's participation in various sports and games.
- The Institute has well qualified and experienced Physical Education Director to guide and prepare the students in physical activities, sports and games
- Separate indoor game facility and spacious ground is laid out for cricket, basketball, volley ball, throwball, badminton, kabaddi etc.
- Facilities with respect to sports are listed below:

Sl.No.	Description	No.	Area in sq.ft
1	Cricket Field	1	43593.8
2	Volley Ball Court	1	4305.6
3	Basketball Court	1	6026.9
4	Throw Ball Court	1	4305.6
5	Kabaddi Court	1	2421.8

6	Indoor Games Room	1	2635.5
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- A game like **chess** improves creative thinking among the students and to provide platform for this, 8 chess boards and 11 sets of chess coins are provided.
- In order to increase logical reasoning, visual perception, Institute has 17 **carrom boards** with 19 sets of carom coins are available for the students.
- To stimulate alertness and concentration, **Table Tennis** facility is provided to students, which is 5 in number.
- To ensure holistic development and all-round personality of a student Physical Education Department train students in **athletic** events by providing the best infrastructures such as javelin, 5 in number, a shot put of 7.25Kg for men, and 4 Kg for women.
- Regular training is provided to those students who show interest and extraordinary skills in different sports and are encouraged to participate in various level of competition including Intra college events, Inter-University events.
- To help faculty/students/staff to be fit in terms of health, **Multi Gym** facility is also provided at the Institute with modern facilities and ample space for doing exercises.
- Various sports/games competitions are conducted at the college level every academic year and the winners are felicitated and encouraged.
- Facilities have also been provided for **yoga** by the Institute where it conducts **yoga courses/camps** and health awareness related activities for students and staff on regular basis.

Cultural Activities

- Many cultural events are conducted in spacious places like Seminar halls, open air auditorium of the Institution during annual day celebrations and also during inter collegiate event **Varnotsava**.
- Dedicated Institutional cultural coordinator is present, whose responsibility is to conceptualize and conduct cultural activities in the institute.
- To showcase hidden talents amongst students, every year a cultural event **Manthana** and literary events are conducted every year by the cultural committee.
- Winners are identified in each event and rewarded suitably in order to motivate the students.
- Bus facility is provided by the Institute for those who participate in the inter collegiate cultural events, VTU fest etc.
- To promote traditional dance form **Yakshagana**, every year faculty, staff and students of the Institute perform this art under the name “Yakshasiri” during annual day celebrations and the costume is sponsored by the Institute every year.
- In addition, college also promotes and provides financial assistance to **Chende group** that showcases its talent during major Institutional events.

File Description	Document
Any additional information	View Document

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

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 36

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
any additional information	View Document

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

Response: 10.51

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

2017-18	2016-17	2015-16	2014-15	2013-14
85.5868	90.57	83.505	90.95	165.5

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

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

- 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**.
- The ILMS software provides several features such as circulation, OPAC, set up and security, periodicals, registration, reports, digital library, circulation and catalogue accessioning.
- **Set up and security** deals with assigning and maintaining the security for each module present in Easylib software. This feature is also used for creating and maintaining vendor details, subject details, academic year, department etc.,
- **Catalogue accessioning** is a key feature of the software that allows user to enter the catalogue and accession details of both book and other materials. It also allows to import the data from text and

excel sheets, stock verification, catalogue card generation, customized statistical reports etc.,

- **Reports** allows to generate the reports in a customized manner which may be related to books, catalogue or also non-books.
- **Membership** feature allows to maintain the user details of students/faculty/staff. Also, member search can be done based on first name, roll number or USN number, etc.,
- **Circulation** a very important feature of ILMS, that allows the library staff to handle the functions such as issues, return, renewal, cancellation of books and non-book items by entering the member id and accession number. In addition, one can retrieve circulation statistics on a specific date and time.
- **Periodicals** feature allows user to enter and maintain the details of journals, magazines and to keep track on subscription details.
- **OPAC (Online Public Access Catalogue)**, can be accessed by any member of the Institute to search books, periodicals, e-resources or information related to library.
- **Acquisition**, is for procuring items into library along with placing budget. A request can be placed for these items by specifying the details of desired item.
- **In/Out Management** is used keep a track of number of students/faculty/staff entering and leaving the library along with date and time.
- **Digital Library** feature acts like a data bank for all digital documents and allows to keep track of all these in an effective manner.
- Institute 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.

File Description	Document
Any additional information	View Document

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

Response:

The Institution has rich collection of text books, reference books, books for competitive exams, self help books for the benefit of the faculty, staff and students. The central library of our Institution conducts several activities for enriching the knowledge of the students. Apart from the books related to engineering, rare books, novels, journals, magazines are also available in good number. *CDs of various subjects* and *question papers* of previous semesters are available in the library for the benefit of the students. List of rare books and reports available in the Institute are listed below.

Sl.No	Title
1	Mining & Machinery
2	Surveying, Vol-I
3	Surveying, Vol-II
4	The Principles and Practice of Mine Ventilation
5	Elementary Engineering Drawing -Part-2

6	Plane and Geodetic Surveying
7	Coal Mining Practice, Vol-1
8	Coal Mining Practice, Vol-2
9	Coal Mining Practice, Vol-3
10	Coal Mining Practice, Vol-4
11	Winning and working Coal in India, Vol-1
12	Engineering Mathematics
13	Elements of Financial Administration
14	Numerical Mathematical Analysis
15	Numerical Methods for Science and Engineering
16	National Policy on Education
17	Psycho-Cybernetics
18	Design of steel structures, 2nd Edition.
19	Business Policies and central Management, 5th Ed.
20	Electroplating Engineering, Hand Book ,3rd Ed.
21	Automobile Engineering
22	Engineering Economics
23	Management Accounting
24	Techniques of Financial management
25	Energy Economy, 4th Ed.
26	Automatic Control Systems
27	A Text Book of Applied Mechanics
28	Machine Design
29	A New Approach English grammar and Composition
30	Machine Design
31	Pumps Fans Compressors
32	Vector Analysis
33	Ferromagnetic Core De Sign and Application
34	Machine Drawing
35	Modern Robot Engineering
36	Mechanical Machine Design
37	Machine Drawing
38	Integral Calculus
39	Design Data Hand Book
40	Pulse, Digital Circuits and Computer Fundamentals
41	An Introduction to the principles of communication theory
42	Automobile: Truck Driver's Manual
43	Mechanical Engineering: Objective Type Questions and Answers
44	Automobile Engineering Vol-1 Automobile Chassis
45	The Third World in Transition

46	Straight Lines and Curves
47	Introduction to Robotics
48	Programming with basic 3rd ed.
49	A course in power plant engineering
50	Electronic Devices and Circuits
51	Project Management
52	Data Structures and Algorithms
53	Code Practice for General Construction in Steel
54	Intelligent Robotics
55	Integral Calculus
56	A Course in Internal Combustion Engines
57	Industrial and Business Management
58	Radhakrishnan Report (The Report of the University Education Commission)
59	Kotari Report (Report of the education Commission)
60	GDP analysis of 3rd world Countries
61	National Policy on Education
62	Report on The Committee to advise on Renovation and Rejuvenation of Higher Education
63	A Vedic Grammar for Students
64	The Valley of Kashmir
65	Report of the CII Task Force on Corporate Governance
66	Guide book of Bangalore Movofonic Radio
67	The History of Jahangir
68	Kautilya's Arthashastra
69	Environment Impact Assessment Report- Vol. I
70	The Religious life of Indian- The Ahamadiya Movement
71	The Economic History of India under early British Rule
72	Ancient India -2000 B.C. -800 A.D.

File Description	Document
Any additional information	View Document

4.2.3 Does the institution have the following:

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

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

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

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

Response: 13.47

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

2017-18	2016-17	2015-16	2014-15	2013-14
12.34464	11.36155	13.95628	13.05175	16.63464

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

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 12.83

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

Response: 197

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

- The Institution always aims at providing top class infrastructure including IT facilities like computers, printers, LCD projectors, Wi-Fi etc.,
- There are 519 computers available, of which more than 468 computers are dedicated for students that exceeds AICTE mandated 1:6 ratio.
- Maintenance of the PCs and laptops available at the Institute are performed and upgraded whenever necessary by the dedicated staff of server department.
- To aid the students in their academics, the institute purchases and updates its system software, application software etc.,
- In order to protect the main server and Tally server from harmful viruses, Institute has Quick heal antivirus that keeps updating in order to prevent the servers from getting affected.
- The Institution has exclusive language lab, facility to improve the communication skills of students. To aid the process, college has purchased software on personality development, decision making, motivation skills, English essentials etc.,
- To boost industry-academia relations, video conferencing facility is made available in the Institute.
- College has 32 printers, 2 biometric machines, scanners in various departments for administrative purpose.
- To enable ICT enabled learning, the Institution also purchases LCD projectors on requirement basis. Currently there are 24 projectors in our Institution.
- A separate Lecture Capturing Room/e-Shikshana room facility is available for the faculties who wish to capture their lecture videos or conduct any workshops/webinars.
- The table below shows the number of nodes that were available for LAN connection over a period of years. There is a gradual increase in the number of nodes for internet connection and was done according to the academic needs.

Year	Number of nodes for LAN connection
2013	250
2014	400
2015	519

- Currently around 550 nodes are provided for LAN connections, which are distributed in many

classrooms, laboratories, staff cabins, principal office, HOD cabins, department offices, main office, library, seminar halls and stores.

- Wi-Fi facility is available throughout the campus to encourage students/faculty/staff to use e-content for their knowledge enhancement. Each faculty/student/staff is given user name and password to access internet securely.
- In 2010, the Institution had 4Mbps of leased line internet connection which was later upgraded to 20Mbps and 100Mbps in 2018-2019 to cater research and academic needs.
- In 2012, Wi-Fi facility was introduced in the campus with only 5 devices and was placed at prime locations. In 2015, the Institute purchased 15 more D-Link Wi-Fi devices to support academic and administrative purpose.
- The devices are connected at various places in the campus so that students can access e-content from anywhere inside the campus. Provisions have also been made to provide Wi-Fi to hostels of the Institute.
- A separate Management Information System (MIS) is developed at the Institute to support academic process.
- CC cameras are placed at prime locations for security purpose.
- The activities in the Institute is under video surveillance with cameras placed at prominent places and are frequently monitored.

File Description	Document
Any additional information	View Document

4.3.2 Student - Computer ratio

Response: 3.44

File Description	Document
Any additional information	View Document

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

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Any additional information	View Document

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

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

4.4 Maintenance of Campus Infrastructure**4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years****Response:** 15.58

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
153.99736	145.15995	173.52975	177.40851	128.93466

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

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

- SMVITM has well defined procedures for the maintenance of physical, academic and support facilities.

- College has appointed several personnel for maintaining the infrastructure that covers building maintenance, transport, furniture and generator operator in case if the power shuts down.
- It has a dedicated maintenance department responsible for carrying out electrical/plumbing works or maintenance related to it throughout the campus. The college has qualified and skilled manpower for civil work, electric work, plumbing etc.
- Separate complaint registers are being maintained for various services like electrical, plumbing, etc. People who work on maintenance of the college, report regularly about the breakage/maintenance of any equipment installed in the Institute to the higher authority so that proper measures are taken to restore/purchase the worn-out spare parts.
- Maintenance of the garden is routinely carried out by gardening staff of the Institute.
- After sale, service of generator is provided by the vendor for every six months.
- As an eco-initiative, Institute has set up Sewage Treatment plant with a capacity of 125 kilo litres using batch reactor technology. Maintenance of the same is done through the supplier every month where 40 litres of chlorine is used to clean it and the recycled water is reused for gardening purpose.
- Solar panels of 125KW is set up in the Institute to save electricity and solar water heaters are set up in the hostels for students' convenience and the maintenance is done as per the guidelines from the supplier.
- Used booklets, papers, magazines are disposed as scraps every year as a part of maintenance.
- The Institute utilizes the materials available to prepare furniture required for the Institution and also for other schools.
- A fleet of buses and van are maintained by the transport department of the college. There is an institutional coordinator for transportation committee. All students can avail this facility by paying a fixed amount yearly, faculties (teaching and non-teaching) also avail this facility.
- The stock in the department is verified for the available and discarded equipment by a meticulous stock verification process carried out by faculty team from other department every year and the report of the same is submitted to the Principal.

Maintenance and utilization of Academic Facilities- Laboratories, Classrooms, Projectors

- Entire campus including the classrooms and laboratories is cleaned everyday by the house keeping staff.
- Maintenance department ensures uninterrupted power supply and maintenance of electrical assets in all the classrooms, laboratories, hostels etc.,
- Minor repairs of the equipment in the laboratories are carried out by qualified and experienced lab instructors.
- The components and the equipment available at the institute are provided to students when necessary to conduct their mini and major projects.
- Further, major equipment is under Annual Maintenance Contract (AMC) for their regular preventive and corrective maintenance.
- The PCs available in laboratories of the institute are utilized for conducting IBPS exams, RRB, MESCOM exams, COMED-K exam, etc.,
- Laboratories of the institute are also utilized for doing consultancy related works.
- The faulty trainer kits are serviced by service engineers of specified companies. The measuring instruments are calibrated regularly by standards companies.
- A separate log register is maintained in the maintenance department for booking projectors and seminar halls.

Maintenance and utilization of Library

- The central library of the institute is well maintained and utilized effectively by the staff, faculties and students.
- The ILMS software of the library undergoes AMC by the vendor.
- Routine cleaning of library is done by the house keeping staff of the Institute.
- Every year the Institute renews the e-resources available in the library.

Maintenance and utilization of Computers

- Maintenance of the PCs, printers available in the Institute are done by the system administrator of the Institute. A dedicated server room is present to support concerns related to IT.
- Students and faculty members are provided separate login credentials to access the intranet and internet.
- Access to internet is provided in the lab even after college working hours to encourage students to carry out their academic or hobby projects.
- Periodic maintenance is done by providing software updates and antivirus updates.
- The software available in the Institute are frequently updated in case if it is required.
- Minor repairs related to hardware or software are addressed by the system administrator of the Institute.
- There is a qualified system programmer in the college who creates a student faculty database and maintains the same. Programmer rectifies the issues in database enhancing new features frequently.

Maintenance and utilization of Sports Complex

- A spacious sports room is present in the basement of the main block which is well maintained and monitored by the Physical Education Director of the Institution. Every year sports materials are procured based on the requirements. Sports room is available beyond working hours and are effectively utilized by students, faculties and staff.
- In order to refresh the minds of staff and students and to keep them active and fit, outdoor games are kept open from morning 6:00 AM to 7:30 AM and 4:00 PM till 6:30 PM.
- If sports event is organized at VTU level / intercollegiate level, a special coaching will be provided for the students from 3:00PM till 6: 30P.M with prior permission from the Head of the Institution.
- Gym facilities are provided for hostel boys from 6:00 AM to 7: 30 AM, ladies (staff/students) from 5: 00 PM to 6: 00 PM and gents (staff/students) from 6:00 PM to 7: 30 PM. Students and Staff keep themselves fit and healthy through morning and evening workouts.
- Staff and students avail indoor games facility (like chess, carrom, table tennis) from 1: 00 PM to 1:50 PM and 4:00 PM to 6:30 PM to reduce their stress and try to improve their memory and cognitive skills through creative indoor games.
- Keeping in mind, a healthy and clean environment to stay fit and fine, housekeeping staff clean the surroundings meant for outdoor games as well as spacious sports room on regular basis.

File Description	Document
Any additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 42.48

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

2017-18	2016-17	2015-16	2014-15	2013-14
933	933	725	339	235

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

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

Response: 12.01

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

2017-18	2016-17	2015-16	2014-15	2013-14
110	98	275	242	138

File Description	Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

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

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

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

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

Response: 79.88

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

2017-18	2016-17	2015-16	2014-15	2013-14
1438	1089	1234	1471	598

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

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years**Response:** 44.11

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

2017-18	2016-17	2015-16	2014-15	2013-14
1438	1471	125	322	0

File Description**Document**

Details of the students benefited by VET

[View Document](#)

Any additional information

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

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

[View Document](#)

Details of student grievances including sexual harassment and ragging cases

[View Document](#)

Any additional information

[View Document](#)**5.2 Student Progression****5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 38.32

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

2017-18	2016-17	2015-16	2014-15	2013-14
156	88	195	100	35

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

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

Response: 9.31

5.2.2.1 Number of outgoing students progressing to higher education

Response: 39

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

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

Response: 100

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

2017-18	2016-17	2015-16	2014-15	2013-14
22	24	26	3	1

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

2017-18	2016-17	2015-16	2014-15	2013-14
22	24	26	3	1

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

5.3 Student Participation and Activities

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

Response: 63

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

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

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

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

Response:

Udupi is an abode of Lord Krishna, a temple town of world renown. Udupi is the place of origin of 4 nationalized banks in the country. It has a place of prime in terms of being the number one in manufacturing of cashews, export of jasmine flowers and it is also a land of temples and educational institutions. Leadership comes naturally to the people of Udupi and entrepreneurship is part of the DNA of the people of Udupi.

Shri Vishwavallabha Thirtha Swamiji strongly believes in the holistic development of the students to be accomplished individuals in tune with the vision and mission of the institution. The College is committed

to provide the ambience and opportunities to the students to develop into leaders capable of leading institutions and also leading happy life. The college has strategies to provide education as long with plan for the holistic development of the students, through competence building. Skill sets are imbibed amongst the students. With this in mind, the college provides leadership roles to students through various committees/Cells and Fora. An important element of student participation in all domains of the institution is the Student council. The aim of student council is to give students an opportunity to develop leadership skills by organizing and carrying out the college activities. Besides planning the events that contribute to achieve the vision of the institute and solving the societal issues, the student council also acts a platform for the student community to share their ideas, interests, grievances and concerns. The Council enables the students to undertake duties and responsibilities such as conducting co-curricular and extra-curricular activities in the Institute. They are also required to discuss with the faculty/college authorities on the various amenities/support required for the betterment of students. In addition to college student council, we also have active professional student bodies, namely, ISTE, IEEE, SAE student chapters with commendable involvement of the students. The students of our college have won the ISTE state level best student award for the successive fourth time since 2015. Apart from this, the students are also taking part in the activities of various clubs, National Service Scheme, Youth Red Cross and Rotaract Club, Atal Tinkering Lab (ATL) initiative by IEEE community outreach program. The president of College Rotaract Club has been awarded the best president during the year 2017-18 for the commendable social work. All these clubs/councils/committees have democratic process of selection of secretaries, president and all other required portfolios in their respective associations.

Apart from these regular clubs/cells/councils, students are also given most of the responsibilities in the institute's flagship events such as, -An Inter Collegiate Techno Cultural Fest, and **Avishkar** events. Here the students take a lead in planning of the events, chalking out the roles and responsibilities for various tasks. To summarize, the students of our college have plethora of opportunities towards the holistic personality development through student's council, activities planned by student's chapters of ISTE/IEEE and various clubs.

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

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

Response: 4.4

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	6	5	3	3

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

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The mission of the Alumni association of our institution is aimed at fostering, maintaining and enhancing relationship between institution and alumni, and this is currently achieved by conducting activities that include participation of our alumni. The alumni association is expected to work in tandem to achieve certain objectives of the institute by arranging various activities pertaining to the overall development of the students of our institute. Raising funds for the activities is also its task, so also is seeking help from alumni in placement activities.

Presently, the institution alumni association is engaging the alumni by providing platform to them to interact with their juniors through the alumni cell and the training and placement cell to provide a clear picture of what is expected out of them in various industries be it software or core, to discuss on opportunities in the defense forces, how to prepare for the competitive tests, opportunities in higher education, working in public sector etc.

The alumni association is engaging actively, the alumni members in the institute's cultural events as well by inviting them to act as judges for various events. During the annual day 2018, the alumni team organized a Yakshagana performance through Yakshasiri.

Presently, the association is not seeking any monetary assistance from our alumni they alumni are relatively freshers with a maximum of about 3 to 4 years of experience. However, the alumni cell and departments are planning to improvise on the tangible/monetary contributions from the alumni through the SMVITM Alumni Association.

An alumni get-together was organized for the first time in the institute campus on 4 June 2017 and first ever alumni meet was organized at Bengaluru on 22 April 2018. An alumni meet is planned in Bengaluru on 23 March 2019. Every year at least one alumni meet shall be arranged.

To conclude, for relatively young Intuition like ours, alumni group is the backbone; it is the driving force for all our activities/schemes we plan and execute for the benefit of learning students. The institution considers each 'passed out' student as an important citizen, records his/her name in the alumni register with due respect and hopes that he/she achieves great success in his/her career, shines in the society at the national/ international level and makes SMVITM a great brand to reckon with, thereby uplifting both the talent and moral values in his/her chosen field.

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

5.4.2 Alumni contribution during the last five years(INR in Lakhs) ? 5 Lakhs 4 Lakhs - 5 Lakhs 3 Lakhs - 4 Lakhs 1 Lakh - 3 Lakhs Response: <1 Lakh	
File Description	Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years Response: 0				
5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years				
2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0
File Description	Document			
Number of Alumni Association / Chapters meetings conducted during the last five years	View Document			
Report of the event	View Document			

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

Vision

“To Establish an Excellent, Value-based Higher Educational Hub to Meet the Challenges of Global Competitiveness”

Mission

“To impart holistic education with state of the art infrastructural facilities and conducive academic ambience, at affordable costs, leading to the creation of Centers of Excellence with best brains collectively interacting for total personality development and intellectual growth”

The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution. The Management is keen to promote excellence in academic and administrative processes and is committed to create globally competent graduates with high ethical values at affordable cost.

The Principal, who is the academic Head of the institution, is aided by: Heads of the departments, Administrative Officer, Office superintendent of accounts, Section Heads, Training and Placement officer, Coordinators of institutional level committees and Department coordinators for various committees. The various committees that direct the day-to-day functioning of the institute include: Governing Council, External technical advisory, Review committee (a subsection of GC). Other sections and committees that take part in governance that include: Internal Quality Assurance Cell (IQAC), College Academic Council (CAC), Research and Review cell, Examination cell, Training and Placement cell.

The Principal also ensures that seamless management is executed systematically, encourages participative leadership by involving various stakeholders at appropriate levels of decision-making.

The institute prepares an annual strategic perspective plan at the beginning of the year in line with the University calendar. This is prepared based on inputs by the heads of respective departments and various committee coordinators.

Department in turn prepares semester wise department calendar with faculty members participation through department meetings. Department timetable, subject allotment, curriculum delivery plan, internal assessment reforms are also discussed and finalized during these meetings.

Students and alumni are also involved in certain committees including the IQAC so that their views are also considered in governance.

Suggestions from the students regarding the teaching learning process are sought through class committee

meetings. The meetings are held twice in a semester. Suitable remedial actions are implemented at the earliest with due information to the principal.

Institute carries out various activities through committees which are composed and co-ordinated by faculty members. Coordinators along-with committee members discuss and take appropriate decisions regarding work entrusted to them. Such participation brings transparency to the governance and inherently encourages team-work, while ensuring practicable decision-making.

This ensures dedicated participation of all the stakeholders in decision making bodies of the institute.

Admission and administration governance are well supported by Management Information System (MIS). Through MIS student academic performance, administrative activities and also staff leave management are monitored and implemented. In this way MIS is effectively utilised for various activities of institutional governance.

File Description	Document
Any additional information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

The management has adopted decentralization in procedures and policies to be followed in the institution. It is implemented by giving authority and operational autonomy to the Principal and in turn to the Heads of Departments and Institution level committee/cell coordinators.

The institution strongly believes in participative management involves various stakeholders like Principal, Heads of the Departments, faculty, students, alumni and parents.

- Governing Council of the institution also includes one management representative, Principal and a faculty member for monitoring of strategic plan and assess the outcome for continuous improvement of the institution.
- The Principal of the College is invariably the Chairman of IQAC, CAC, Purchase committee, Examination cell etc., thereby playing a role in the governance as well as implementation of the decisions taken during the meetings.
- IQAC involves Principal, HoDs, students' alumni and parent for ensuring application of quality benchmarks/parameters of the various academic and administrative activities of the institution.
- CAC includes Principal, HoDs, department faculty members designated as academic coordinators for micro-level implementation of academic practices.
- Faculty members and staff are involved as coordinators, members in various associations like NSS, ISTE, IEEE, alumni, Parent Teachers Association etc.
- The Student Council is roped for all decision making purposes, thereby giving an opportunity to the students to have a role in the management of the institution.
- Students are members/volunteers of various Committees like IIOT, Avishkar, ISTE, Varnothsava and get a role to play in the governance of the institution.

- The Alumni are invited during the alumni meet as well alumni committee meetings, where the inputs are provided for effective improvement of various domains and systems of the institution.
- The Parents are invited for periodic meetings in which the proceedings are recorded including the suggestions and inputs. Hence the parents tend to get a say in the matters of the institution, thereby getting a participation in the governance.

Case study:

The National Conference on Emerging Trends in Science and Engineering is organized at SMVITM as an important annual event.

Conduction procedure followed during National Conference on Emerging Trends in Science and Engineering-2018.

- In the IQAC meeting, Principal (Chairman of the conference) select the conveners of the conference and organizing the conference process is delegated to the conveners.
- Conveners in turn form different committees like Technical activity, Invitation and certificate, Program and event management, Press and Publicity, Stage and venue setting, Reception and registration, Finance, Transportation and accommodation, web page updating and food committee. Each committee headed by the coordinator and the members comprising faculty & staff and student volunteers are allotted for the committees. Duties and responsibilities of each committee are framed by the conveners in consultation with the coordinators.
- During the conference, various committee members and student volunteers participate actively resulting in successful conduct of the event.

Thus, the process followed for conduction of the conference demonstrates participative management practiced in the institute, wherein right from Principal as chairman of conference, to conveners, coordinators, members and volunteer contribute towards successful execution of the event.

File Description	Document
Any additional information	View Document

6.2 Strategy Development and Deployment

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

Response:

The college management is committed to persistent upgradation of academic standards, augmentation of infrastructural facilities and overall growth of the institution. It specifies targets in every sphere of activity, with the aim to make the institution to grow into an ideal center of excellence. The management of SMVITM frames effective Strategic Perspective Plans(SPP) aiming at clearly formulated objectives.

Details of the *long term* SPP were proposed by Principal in the Governing council meeting held during the academic year.

2012-13:

- To establish spacious open air auditorium
- To upgrade sports and games facilities
- To expand hostel facilities
- To complete the pending floors of EC, Mechanical, Civil & CS departments.
- To provide an exclusive set up for Training and Placement activities, additional seminar halls and central library block

2013-14:

- To establish research & development center for technology development of process equipment in cashew nut industries.
- To develop a dedicated project lab/innovation lab/creativity center.
- To establish research centers in various departments
- To install grid interactive SPV power generating system and STP

2014-15

- To envisage functional MoUs with reputed industries and institutions
- To provide fully functional gymnasium
- To enable the campus with Wi-fi facility

Year wise details of creation of various important facilities

Sl.No	Facility	Year
1	Open air auditorium	2013
2	Upgrading of sports facilities	2014
3	Work of separate blocks for EC, Civil, Mechanical & CS Engineering branches, CCC, Language Lab	2014
4	Exclusive set up for Training and Placement activities, additional seminar halls	2015
5	Central Library block	2015
6	Research & development center KCTU	2014
7	Project/Innovation labs/Creativity lab	2014
8	Establishment of research centers in Physics and chemistry departments	2014
9	Establishment of research centers in EC, ME, Civil and Mathematics departments	2016
10	Sewage treatment plant commissioned	2017
11	Rooftop solar power station installed	2018
12	MoUs with reputed industries and institutions	2014 Onwards
13	Multi Gym facility	2018
14	Wi-Fi enabled campus	2019

The *Strategic Perspective Plan (SPP)* of college is prepared as per the following procedure:

- The Principal calls for a meeting of the IQAC members at the beginning of the academic year and discusses the points which need to be included under SPP.
- He also instructs the IQAC members to initiate the process, giving the required guidelines, following which the circular is issued to the HoDs and various committee coordinators for further process.
- In pursuance of the above instructions, HoDs call for departmental meetings and discuss on how the activities are to be planned. Further even committee coordinators call for meeting with members for future plan discussion.
- Based on this discussion department academic calendar is prepared by all the departments in line with the university calendar.
- Coordinators of various committees also prepare the Strategic Perspective Plan for the whole academic year in sync with the department and university calendar of events.
- Further IQAC scrutinizes and consolidates committees SPP to prepare the college annual strategic perspective plan.

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

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

Response:

1. Governing Body

- Management of the institute is the highest body for policy making, it consists of five members, one being the President who is also the founder of the institute along with other members designated as Vice President, Secretary and members of the trust.
- Governing Council, the advisory body of institute, meets periodically to discuss various issues and aspects related to the development of the college.

Governing body responsibilities include considering and approving the institutional strategic plans of framing academic aims and objectives. It also formulates financial, physical and staffing strategies.

2. Administrative Setup

- Principal is the Chief Executive of the College and also the member secretary of GC, reports to the Governing Body for all academic, administrative and financial matters of the college.

- Administrative officer is the head of the office dealing with the day to day administrative matters of the institution.
- **Following are the supporting units in administrative office.**
 1. **Admission and scholarship:** All matters pertaining to admission of students to the college at all levels in line with the norms of the University, State and Central Government are dealt by office assistant of admission.
 2. **Examination:** Office assistant of examination attends all matters pertaining to the conduct of University examinations both theory and practical.
 3. **HR:** Office assistant of HR is responsible to facilitate recruitment of potential faculty and staff who have the relevant skills, qualifications and experience to make a positive, innovative contribution towards the development of the institution and maintenance of employee records.
 4. **Accounts:** Superintendent of accounts is responsible for keeping all the files updated regarding financial transactions of the college. Office assistant of Accounts is responsible for all financial transactions under the instructions of the superintendent (Accounts)

3. Academic Bodies

1. **IQAC-** Is a supporting functional body for the development and application of quality benchmarks/parameters of the various academic and administrative activities of the institution.
2. **CAC-** Is a functional body concentrating on academic audit, taking curriculum feedback from all stakeholders, analyzing and taking necessary actions to implement the suggestions.

4. Service rules and procedures

The Institution has a set of well-established rules and policies within the framework of AICTE, state Govt. and the affiliating university regulations which are approved by the Governing Council of the Institution. The rules and regulations of the institution were first published in 2010 and revised periodically. Institution has prepared a policy book containing various details of service policies.

5. Recruitment

Recruitment is based on the decision of a selection committee, constituted by the management and in conformity with the AICTE norms.

6. Promotional Policy

There is a well formulated intuitional policy for promotion of its employees.

7. Grievance redressal mechanism

The grievances of employees are addressed by a suitable redressal mechanism, thus ensuring a congenial working atmosphere.

File Description	Document
Any additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

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

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: B. Any 4 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	View Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document

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

There are *Bodies* like IQAC, CAC, cells consisting of examination, training & placement, EDC, counseling 'Aasare', alumni, women empowerment 'Sabale', human rights 'Jagruthi' and committees like community orientation, innovation, PTA, library, eco 'Prakruthi', hostel & canteen, magazine, NSS/YRC, extra-curricular 'Sanskruithi', co-curricular, antiragging, research review are functioning at various levels. They meet regularly to consider the various agenda points, issues and arrive at suitable resolutions and plans.

The coordinator of cells/committees are senior faculty (Sr. Assistant Professor or of higher cadre), assisted by faculties as members all approved by Principal in the beginning of the academic year. Each committee has defined roles and responsibilities. The coordinators in consultation with the members chalk out list of programs and the same is submitted to IQAC for its approval. Once approved the activities are executed one by one taking into consideration the academic schedule of students and faculty.

For example: “Community Orientation Club”:

Role of the club: Orientation of our students towards community benefitted programmes. Creating concern for the society, provide hands in within the living space, social engineering through social commitment.

At the beginning of the academic year, coordinator of the club along with member prepares a perspective plan for that year wherein list of activities are deliberated and proposed to the IQAC. After the approval from IQAC, committee member begins with conduction of the program as per planned schedule.

One such mega event “**Avishkar**” is organized by the community orientation club for the students of nearby PU colleges who get the platform to showcase their talents.

To demonstrate functioning of the committee, program conduction procedure for ‘**Avishkar**’ is stated below.

Program conduction procedure- Avishkar

- Community club (CC) coordinator in consultation with the Principal forms a team for organizing the event. Two senior assistant professors are selected as the overall coordinators of Avishkar.
- First meeting of Avishkar is called for overall coordinators of the event, members of CC, HOD’s and Principal. Agenda for the meeting was formation of committee member for various activities and jotting down their roles and responsibilities.
- Event committees of Avishkar were promotional activity committee, reception registration, press & publicity, stage, program and food committee.
- **Series of meetings** were conducted in regular intervals for discussion and to review the progress of program arrangements.
- The program was conducted on the said day and a detailed activity report of the programme was submitted to IQAC by the coordinator of CC.

A similar procedure is followed by other bodies/cells/committees to conduct different programmes. At the end of academic year, each unit submits an activity conduction report to the IQAC.

File Description	Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies**6.3.1 The institution has effective welfare measures for teaching and non-teaching staff****Response:**

Following welfare measures exist for teaching and non-teaching staff of SMVITM

- The institution conducts FDP before commencement of every semester. External resource persons

are invited to give talks on motivational aspects, to improve the teaching skills of faculty.

- Guest lectures, seminars and hands on workshop have been arranged for faculty so as to derive benefit of exposure to higher standards of updated information in new technology.
- Faculty members are given SCL (special casual leave) to attend FDP, workshops, seminars, conferences, personality development programs, skill up gradation and effective teaching methodologies organized by other premier Institutions.
- Registration fee is paid by the institute on claim basis when faculty attends conference, seminars, workshops in other Institutions.
- From August 1, 2018 a financial benefit of Rs. 12,000 per year for maximum of 5 years, is being given to the faculty who pursue PhD under VTU and other universities.
- Earlier (2014 July to 2018 July) 5% of the basic pay was accorded as research allowance for the PhD registered faculty.
- Waiver of 'Other fee' to the meritorious wards of the faculty/staffs (minimum 75% marks in each year) seeking admission in the Institution.
- Facility of Provident Fund has been extended to all faculty and staff (without looking at the cap of maximum salary of faculty) - 12% of the salary or Rs. 1800 whichever is less. Same percentage is contributed by the management.
- All non-teaching staffs are eligible to attend Staff Development Programme (SDP), guest talk etc. to improve their skills.
- Each employee is eligible for Medical/Rural Accidental benefit insurance, in case it is needed, to the tune of rupees one lakh.
- Earned leave for every non-vacation employee.
- A permanent employee is entitled to 20 days of half pay leave or 10 days of full pay leave, as commuted leave, in respect of each completed year of service. Balance leave can be accumulated over the years.
- Incentives to the faculty/staff members for additional work other than regular responsibility.

File Description	Document
Any additional information	View Document

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

Response: 14.76

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

2017-18	2016-17	2015-16	2014-15	2013-14
13	34	7	11	6

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

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

Response: 10.4

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

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

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

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

Response: 35.88

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

2017-18	2016-17	2015-16	2014-15	2013-14
70	43	42	18	4

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

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

Response:

The Institution has a performance appraisal system for both teaching and non-teaching staff to decide on annual increment/special increments/promotion. The IQAC of the institution has designed a performance based appraisal format for the same.

Self-Appraisal form for **faculty** consists of the following seven parameters with a total score of 300:

- **Teaching Learning and Evaluation Related Activities** (125 marks): It covers the academic process such as planning and execution of course delivery, valuation duties, mentoring and also students' feedback, followed by maintenance of supporting documents.
- **Co-curricular and professional development related activities** (50 marks):
 - It consists of activities pertaining to committees constituted by the institution as and when required.
 - Qualifying online courses viz. NPTEL, attending FDP/workshops etc.
- **Professional related contributions** (30 marks): Considers involvement in institutional governance, membership in professional bodies.
- **Research and other related contributions** (40 marks): Evaluate publication in journals and presentation in conferences.
- **Funded Research Projects and Patents** (15 marks): Covers the research projects sanctioned/patents filed by the faculty members.
- **Research guidance/Faculty pursuing Ph.D.** (20 marks): Considers guidance for Ph. D programme/ Faculty pursuing Ph.D. programme.
- **Convening of conference/seminar/workshop/FDP planned in the Institution** (20 marks): Organization of conference/workshop/FDP etc. in the institution.

Appraisal form for **nonteaching staff** consists of the following three parameters with a total score of 50:

- **Work Output (40 marks)**
 - It consists of knowledge, application of knowledge, quality of work & quantity of work as points to be assessed by the reporting authority.
- **Personal Traits**
 - Covers parameters like Punctuality, Absenteeism, Dependability and Ability to work with others.
- **Special Attributes (10 marks)**
 - Considers ability to supervise & organize, loyalty to institution for evaluation.

Appraisal form is filled up by faculty members yearly once at the time of annual increment and submitted to the respective departmental heads.

- Departmental heads scrutinize the appraisal forms, enter their remarks based also on the information captured from various committees and submit it to the Performance Appraisal Committee (PAC) for further processing.
- PAC consists of one management representative, Principal and the HOD of the concerned department.
- PAC conducts individual meeting with each faculty. Evaluates their performance, gives feedback to the faculty and conveys the management expectations from the individual faculty.
- PAC recommends the annual increment/promotion for the faculty based on the assessment score.
- Principal takes approvals for the increment/promotions from the management, followed by issuance of the corresponding order to the eligible faculty.
- Thus the faculty gets an opportunity to be evaluated of their performance and enable them to perform better and improve on the areas of concern.
- Technical staff/Office assistants/Supporting staffs: Assessment by the Principal and Head of the department.
- Placement officer and the physical director: Assessment by the Principal and management representative of the institute.
- Library staffs: Principal along with the librarian makes the assessment.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Yes. The Institution conducts internal audit half yearly and external audit at the end of every financial year.

- Financial planning is exercised well in advance for the organization and efficient budgeting is done by involving the various Academic departments and Administrative sections of the Institution.
- Financial planning and review is done through Internal Finance Committee (IFC) which comprises the secretary (Management representative), Principal and account superintendent as members.
- Finance committee meets half yearly and reviews the income and expenditure statements and suggest further action plan.
- During the internal audit which is conducted by the finance committee, committee raise objections, if any, related to finance and stock related records, giving an opportunity to the college to address and rectify the same. Queries in the audit will be reported to the account section and compliance is effected within a months' time. They also give necessary guidance for improvement in account maintenance. These measures ensure no further discrepancies in the records that can be objected by the external auditors.
- External Audit is conducted through a chartered accountant at the end of every financial year.
- Every Financial transaction is recorded through software (Tally); and the students pay the fee through online mode.
- Audited income and expenditure statement of academic and administrative activities of the

previous five years are available.

- 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.

File Description	Document
Any additional information	View Document

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

Response: 28.81

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

2017-18	2016-17	2015-16	2014-15	2013-14
3.13	1.425	10.31851	3.69880	10.24258

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document
Any additional information	View Document

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

Response:

The institution has a well-defined mechanism to mobilize the funds, the main corpus of which comes from student's fees with additional support from the management, if needed.

- Head of the Departments/ section heads shall prepare the approximate annual budget and the same is submitted to the Principal well before the commencement of an academic year.
- Principal prepares the consolidated Institutional budget and presents the same before the Governing Council for approval. Approved budget is handed over to the respective department and section heads for implementation.
- Finance Committee makes necessary arrangement to mobilize the fund as per the budget requirement.
- The institutional Finance Committee keeps track of the budget through internal audit. In any

unforeseen circumstances, non-budgeted amount is allotted depending on the merit of the case.

- After implementation by the departments/sections, Invoice and purchase order is reviewed by the finance committee at the end of the year.

Fund mobilization through following sources:

- Fee collected from the students
- Government funded projects
- Term loan from Bank
- Testing and consultancy fees
- VTU project sponsorship
- VTU grants for NSS/Sports (lab)

Mobilization of funds received through various sources are done for following

1. Salary of teaching and supporting staff
2. Purchase of equipment, machinery, software and furniture
3. Library books, e-subscriptions of journal and books
4. Electricity charges, telephone, internet bills, postage and other miscellaneous
5. Annual maintenance contract, consumables, repair and maintenance, sanitation-housekeeping-gardening and security charges
6. Repayment of bank loan
7. Advertisement, printing & stationery
8. Infrastructural development facilities and Building construction works
9. Research and project activities
10. Seminars, Conferences and Faculty Development Programmes and other extra/co-curricular activities

The Institution optimally utilizes the resources for following activities:

- The infrastructure is optimally utilized for the routine teaching learning process, as well as for seminar/workshop/FDP conduction to the external participant like Diploma students, school/ PU college faculties.
- Infrastructure is also provided for conduction of bank exams, rotary club activities.
- Workshop facilities is used for fabrication work of furniture's for SSVMET trust managed education institutes whenever required.
- Lab utilization for project work beyond college working hours.

Efforts are made to match expenditure with income sources during the financial year and also to utilize the available resources optimally. Funds available with the Institution are regularly monitored by a competent internal arrangement.

File Description	Document
Any additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

SMVITM is committed to plan, promote and develop measures for institutionalizing quality enhancement practices to improve the academic and administrative performances of the Institution.

The Institution has established Internal Quality Assurance Cell in the year 2015-16 to foster the activities that are necessary to increase the quality standards in teaching learning and evaluation. Since then it has become the integral part of the institutions' system and work towards realizing the goals of quality enhancement and sustenance.

The IQAC has been instrumental in reviewing, following up, strategizing and promoting the quality indicators and reviewing various processes and procedures for quality achievement, sustenance and enhancement.

The strategies adopted by the IQAC for institutionalizing quality are

- Mentor System
- Orientation towards Quality
- In alignment with NBA & NACC criteria's quality initiative
- Organizing various co curriculum & extra curriculum activities through various committees & cell.

Best practice institutionalizing the quality assurance strategies and process by IQAC for Internal academic and administrative quality enhancement

MIS

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 enable 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 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 time saving.
- 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.

Performance Based Appraisal (PBA)

PBA is an evaluation process initiated by IQAC, for performance monitoring and development of employees. PBA is a process to make employees aware of the key result areas to perform.

PBA has assisted for incremental growth in:

- Documentation & effectiveness in teaching learning process.
- Participation in professional development activities like FDPs/Short Term course
- Appearing for NPTEL exams through local chapter established in institute.
- Membership in professional bodies like ISTE, IEEE, Institute of Engineers, ICI, IGTS.
- Institute Faculty Registration for pursuing Ph.D program, which has strengthen research activities.
- Research scholar pursuing Ph.D under the guidance of faculty from the institute,
- Publication in reputed journal and conference.
- Organization of seminar/FDP/workshop in the institute premises.

File Description	Document
Any additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

IQAC is responsible for coordinating and monitoring academic assessment and administrative activities to effect improvement in student learning.

The IQAC, various Committees set up with designated purpose and the HoDs meet on a quarterly basis and review different processes, structures and methodologies of operation and based on the outcome of the review, new initiatives, new systems and invigorated efforts are put in place for continuous improvement. The institution is aware that the it can achieve continuous improvement through in continuous learning. It has strategies for continuous reviews and arriving at effective learning outcomes. The institution intends to become a learning organization through organizational learning.

The IQAC monitors the academic review activities such as:

- Effective deployment and implementation of the academic calendar
- Curriculum delivery plans based on curriculum feedback analysis report.
- Continuous internal evaluation which is carried out by conducting internals, quiz, assignments, seminars, case studies, mini projects structured internship and main projects.
- Effectiveness of the teaching through feedback collected from the students twice in a semester. Whether it is communicated to faculty and Heads of departments for necessary measures.

- One to one interaction arrangement to review the teaching learning process through class committee meetings by involving students, HOD and TG/FA.
- Conducting Academic audit at the department level by CAC.

The IQAC monitoring for structures & methodologies of operations through:

- MIS consolidated reports for review of attendance, marks, feedback, leave, biometric report.
- Administrative Officer(AO) for assessment of HR, general administration activities.
- Examination liaison officer for review of examination related activities.
- Resident Engineer for maintenance work.
- Store in charge for assessment of stocks and review of housekeeping work.

The IQAC of the Institution also reviews the assessment of teaching learning outcomes through

- Result analysis, conducted after every internal assessment & final semester exam results.
- Course outcome analysis for each course after completion of the semester.
- The Learning outcomes of program (POs) are assessed through course outcome (COs)

File Description	Document
Any additional information	View Document

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

Response: 19.2

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

2017-18	2016-17	2015-16	2014-15	2013-14
23	20	24	18	11

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

6.5.4 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**

2. Academic Administrative Audit (AAA) and initiation of follow up action**3. Participation in NIRF****4. ISO Certification****5. NBA or any other quality audit****A. Any 4 of the above****B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** B. Any 3 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document

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

Institute has taken quality enhancement initiatives in the academic and administrative domains which are successfully implemented during the last five years. Working towards providing best infrastructure facilities for teaching learning process, separate academic blocks, central library block and independent placement block were built. For the advantage of students there has been an increase in the add-on and certificate courses provided to students, further there has been substantial improvement in the number of students benefited through scholarships. SMVITM is committed to work towards teachers, students and all the stakeholders. In line with its commit

ment to research, the institution has started Research Centers. Generous support systems are put in place to encourage the staff to participate in academic seminars/conferences and publish in journals of repute. FDP programs or periodically organized besides encouraging the faculty to take NPTEL certification. Student competence building is an important benchmark that the institution has set itself for quality enhancement.

As part of its commitment to the community development and social responsibility, Shri Madhwa Vadiraja Institute of Technology & Management has taken up green initiatives like setting up Sewage treatment plant, Large setup of solar panel installation, and increase in the expenditure on green initiatives & waste management.

List of Incremental improvements made during the preceding five years

Sl.no	Facility	2013-14	2014-15	2015-16	2016-17	2017-18
1	Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise	235	576	289	1471	1438
2	Number of full time teachers with Ph.D.	7	7	11	9	10
3	Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies	3	4	3	17	39
4	Grants for research projects sponsored by government/ non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution((INR in Lakhs)	7.21	17.7	6.26	15.9	21.3
5	Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher	2	8	4	7	21
6	Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years	1	3	6	7	8
7	Class rooms with LCD projectors	7	11	15	18	18
8	No. of class rooms	24	25	27	27	27
9	No. of teachers	77	91	105	100	98
10	Annual expenditure for purchase of books and journals year-wise (INR in Lakhs)	16.6	12.7	13.9	11.3	12.2
11	No. of computers	372	415	453	505	519
12	Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component (INR in Lakhs)	128	177	173	145	153
13	Number of students benefited by scholarships and freeships provided by the Government	235	339	725	933	933
14	Number of outgoing students placed year-wise	35	100	195	88	156
15	Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/	1	3	26	24	22

	GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise					
16	number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	8	10	10	12	12
17	number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs	4	19	42	43	70
18	Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)	10.2	3.79	10.3	1.42	31.0
19	Number of quality initiatives by IQAC for promoting quality year-wise	11	18	24	20	23
20	Number of gender equity promotion programs organized by the institution	3	2	12	11	14
21	expenditure on green initiatives and waste management(INR in lacs)	0.30	8.49	0.54	0.62	10.1
22	Number of activities conducted for promotion of universal values	10	14	17	16	17
23	Number of outgoing / final year students year-wise	108	222	377	427	419
24	Membership in professional bodies like ISTE, IEEE, Institute of Engineers, ICI, IGTS (Numbers)	33	43	78	89	98
25	Number of faculty/students successfully completed NPTEL exams through local chapter established in institute	NA	NA	NA	17	42

Incremental Growth in adding Infrastructure/equipment's made for the preceding five year

Sl. No.	Facility	2013-14	2014-15	2015-16	2016-17	2017-18
1	Placement cell facility	NO	NO	YES	YES	YES
2	Central Library Separate Block	NO	NO	YES	YES	YES
3	Multifunctional gym	-	-	-	-	YES
4	Wi fi facility	NO	NO	20Mbps	20Mbps	20Mbps
5	Solar Power Station	-	-	-	-	YES
6	Sewage Treatment plant	-	-	-	-	YES

File Description	Document
Any additional information	View Document

NAAC

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

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

Response: 19

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

2017-18	2016-17	2015-16	2014-15	2013-14
8	8	2	0	1

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

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

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

Response:

The institute has always displayed an absolutely unbiased approach towards both male and female students as well as employees. The college is having around 40% women employees and 40% girl students. Recruitment and promotion practices in the institute ensure that leadership roles are achievable without gender bias and also decision making process considers all voices. The teaching and non-teaching staff members have always given a justified treatment to both male and female students. The dignity of all the students as well as staff is maintained and nonetheless, a due consideration is given to the safety concerns of female students and staff as well. The college is well known for providing free yet safe and secured environment to all of its students.

a) Safety and Security

- The institute has a well organised and effective security system in place to ensure the safety and security of the students and staff in the campus.
- The entire campus is constantly monitored by a well trained team of security personnel headed by retired head constable of Central Reserve Police Force (CRPF), who has been appointed as full

time security officer for the institute. He had also served in Rapid Action Force (RAF).

- The 24x7 centralised CCTV surveillance system and the vigilant and alert security staff make sure that no untoward incidents happen in and around the campus.
- The Institute provides medical aid for the students in emergency cases. Local doctors visit the institute and are available on call to attend to any urgent medical needs of the students and staff.
- Tie-up with premier local hospitals for medical services to students and staff also exists (health card by KMC is provided during blood donation drives).
- Under a group medical insurance scheme, all the staff and students of SMVITM are insured against accident and death.
- Right from its inception, SMVITM has ensured that its campus is free from ragging in any form.
- An active anti-ragging committee and squads are functioning in the campus throughout the year to ensure that no student is subjected to any kind of harassment within the campus.
- Institute premise is accessible only by entry through its main gate after the security check.
- CCTV cameras are installed at strategic locations to prevent and monitor any unlawful activities and ensure safety and security of every stakeholder on the campus.
- Ample lighting is made available in the Institute and hostel surroundings to ensure safe passage to all students and staff.
- Institute has separate hostel blocks for boys and girls and separate caretakers have been appointed for them.
- The lectures by police department are arranged on various occasions for the benefit of students on topics like road safety, drug addiction awareness, fire and safety.
- Male and female staffs are made in charge covering every college bus to ensure the safety of all commuters.

b) Counselling

- Institute has close tie-up with leading hospital for mental health (AV Baliga), to provide counselling by doctors whenever need arises.
- Regular programs are conducted to increase the awareness among students about mental health and related issues.
- The college has a trained counselling team consisting of faculties to provide counselling in a professional manner, without disclosing the identity of client.
- The Institute has a mentor scheme where each mentor is allotted a group of around 20 students to take care of academic and other aspects of the student from first year to fourth year of their Engineering course.
- The faculty of respective subjects often carryout academic counselling of the students. The mentors are responsible for the overall counselling (academic or personal) of the students.

c) Common Room

- Ladies' common room is located in the main academic block, and boys' common room is situated in first basement of library block.
- Facilities like- sanitary pad dispenser, incinerator, table, chair, mirror, bed, etc. are made available for their use.
- Boys' common room has facilities like- table, chair, bed, etc.
- Apart from this, for hostel inmates, a separate recreational room is provided with TV, games facility.
- Mess hall with ample seating capacity is provided which is accessible to all irrespective of gender

of the student.

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

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

Response: 0

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

7.1.3.2 Total annual power requirement (in KWH)

Response: 350076

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

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 9.72

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

Response: 20.1

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 206.715

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

7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management

- **E-waste management**

Response:

- **Solid waste management**

- The 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.
- Sanitary pad incinerator has been installed in campus.
- As a pilot project, food waste from the canteen and hostel is converted to useful manure through pipe composting.

- **Liquid waste management**

- 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.
- Adequate arrangements are made to store treated water separately, and dedicated plumbing system supplies this treated water across all toilets for flushing purpose.

- **E-waste management**

- e-waste (excluding unusable computers and other dead stock items) from various departments is collected in the store room. It is disposed off as scrap to the agencies involved in recycling of e-waste on yearly basis.
- The list of the non-working computers including the accessories and other non-working instruments, equipment from various departments to be written off is prepared annually. After the approval, this dump of written off items is further delivered to e-waste recycling agencies.

File Description	Document
Any additional information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

- A rain water harvesting system is in place Electronics and communications engineering department, wherein the water from roof is directly fed to nearby borewell after filtration. This recharges the borewell, increasing the water table of surrounding area.
- Rain water harvesting has been carried out as a pilot project in Civil engineering department by final year students as part of their project.
- The College has a green cover of about 55 acres out of the total area of 72 acres. Hence there is ample opportunity for the water table to improve as the rain water naturally gets sunk into the land.

The water from the rain drains are allowed to be absorbed by letting it out into the vast tract of soiled ground

- The water collected in ground gets accumulated in 2 wells in the campus.
- The wells are 2 natural sources of water reservoirs. The water from the wells is consumed for various purposes.
- Across campus, interlocking pavers are used, which has better water draining capacity than concrete roads. This increases the water permeation into the ground.
- Every rainy season witnesses the festival of planting various kinds of flowering plants and saplings of trees as the institute celebrates 'Vanamahotsava'.

File Description	Document
Any additional information	View Document

7.1.7 Green Practices

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

Response:

Eco-friendly commuting options:

- Institute encourages mass transport system to reduce air pollution caused by individual vehicles. There is effective public transport network to the College from prominent places nearby, like Udupi, Shirva, Nitte, Karkala etc.,
- Institute provides mass transportation from locations which are not directly connected to college. The Institute currently run 6 buses from different locations and in different routes. Around 59 staffs and 297 students are availing this facility in the current year.
- As institute provides hostel facility for students from far-off places within the campus, they walk to college.
- Sensing the need to reduce our carbon footprint, many of our staffs have voluntarily opted to commute by pooling their vehicles.

Plastic free campus:

- In line with government regulations, institute has prohibited the usage of plastics below 50-micron rating.
- Awareness about hazardous nature of plastic is created among students and staff through talks, street plays etc which are conducted on a regular basis.
- Frequent campus cleaning drives are conducted by our students to maintain the campus free of plastic.

- Sufficient numbers of garbage bins are placed in strategic locations to collect any plastic waste which is brought into the college.

Paperless office:

- 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.
- The admission process with registration of the students for generating USN (University Seat Number) and filling of examination form is completely online.
- Academic processes like feedback collection, progress report etc are made paperless.
- Administrative activities like leave processing, examination duty allotment are being carried out through MIS (in house software).

Green Landscaping with trees and plants:

- The college has a lush green campus having wide variety of flowering plants and trees. There is large area of open land which helps in natural rain harvesting and gives further scope for more plantations.
- Green Audit is carried out in the campus by our own students and staff to understand the further scope for improvement in environmental issues.
- Across campus, interlocking pavers are used, which has better water draining capacity than concrete roads. This increases the water permeation into the ground.
- Every rainy season witnesses the festival of planting saplings of flowering plants or trees as the institute celebrates ‘Vanamahotsava’.
- During every graduation day, branch toppers plant a sapling each, which carries their names, as a token of memory.
- Saplings are planted by every prominent personality visiting our campus during various occasions.
- In order to promote green energy initiatives, institute has setup a 125 kW grid connected solar power plant, which is capable of catering all the needs of the Institute.

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

Response: 0.51

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

2017-18	2016-17	2015-16	2014-15	2013-14
13.93	3.1	0.33	7.98	0.3

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

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

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

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

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

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

Response: 74

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

2017-18	2016-17	2015-16	2014-15	2013-14
26	16	12	12	8

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

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

Response: 42

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

2017-18	2016-17	2015-16	2014-15	2013-14
10	9	8	7	8

File Description	Document
Report of the event	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Provide link to Courses on Human Values and professional ethics on Institutional website	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

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

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

Response: 46

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

2017-18	2016-17	2015-16	2014-15	2013-14
10	11	10	10	5

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

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

Response:

12th January: National Youth Day (Swamy Vivekanand birth anniversary):

Swamy Vivekanand's teachings and contribution to society and humankind are recalled on this day through invited talks, competitions, plays etc.,

26th January: Republic Day:

Institute celebrates Independence Day on 26th January annually; Invited guest and Principal will address the audience about various national issues. Sweet is distributed to students and staff.

28th February: National Science Day (discovery of Raman Effect):

On 28th February national science day is celebrated meaningfully with students of nearby schools, especially differently abled students of Manasa and Asha Nilaya. Various events are held for them by our students.

15th August: Independence Day:

Institute celebrates Independence Day on 15th August annually; Invited guest and Principal will address the audience about various national issues. Sweet is distributed to students and staff.

Teachers' Day (Sarvapalli Radhakrishnan birth anniversary) and Engineers' Day (Sir M Vishweshwaraiah birth anniversary):

Teacher's day and Engineer's day are normally celebrated together as a grand event. Eminent guests deliver invited talks which highlight our forefathers' contributions to India, number of competitions and entertainment programs are conducted by students.

14th November: Children's Day (Jawaharlal Nehru birth anniversary):

Every year children's day is celebrated with orphan students of CSI girls boarding school Mulki, in a meaningful manner. Medical camp is organised during this occasion for their benefit.

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

Response:

SMVITM has established procedures to maintain complete transparency in its financial, academic, administrative and auxiliary functions. The policies and systems inculcate human values and professional ethics in staff, students and society.

Finance:

- The Institute has a well laid out process for allocation of budget for every financial year.
 - Estimated budget proposals are prepared by the departments and sections keeping in view the development and up-gradation of laboratory facilities, computing facilities, teaching-learning process enhancement and meeting of training and miscellaneous recurring expenses.
 - Meeting is held in the department to review the proposed budget based on which budget proposals are submitted to the Institute Finance Committee.
 - After obtaining the budget approvals from Governing Council, the department receives the allocated budget towards the development activities.
- All the financial transactions in the institution are carried out through cheque/Demand draft/online mode.
 - The student fee is charged as per the State Government norms and is paid online through the bank.
 - The salary paid to the employees is as per the norms of AICTE and UGC and transferred electronically to their bank account.
 - The vendors are also paid through cheque/online transfer.

Academic:

- Academic transparency creates a motivating environment for the faculty. The faculty in our institute has the academic flexibility of choosing the subjects for teaching in every semester. They have the freedom to select the mode of classroom delivery.
- Decisions related to academics are approved by the College Academic Council and the minutes of the committee meeting are prepared and circulated.
- Programs offered, curricula and prospectus are uploaded on the website.
- Academic calendar, Time tables and Course plan are displayed to the students prior to the starting of the semester.
- Examination related notifications and circulars are widely displayed, circulated and kept on the website.
- Internal marks are displayed on department Notice Board and students are given an opportunity to verify the evaluated papers.

Administrative:

- Transparency is also maintained in admission of students to the courses and the Admission policy is as per the State Government norms.
- The Administrative Policy Manual is made available to all the stakeholders where the roles and responsibilities are well defined.
- The institution has a participative management model where the faculty and the students are members of various committees of the institution and take part in decision making.
- Grievance redressal committee ensures that all issues are resolved in the right manner and in stipulated time.

Auxiliary:

- Research and Consultancy policy is kept transparent to all the stakeholders.
- Information about the funding opportunities as and when released by funding agencies is circulated to provide equal opportunities to the students & faculty.
- Training and Placement activities are mailed to all the students from time to time and the details are also uploaded on the website.
- Funds received from the Government agencies are audited separately and submitted to the respective agencies.
- Student attendance is sent to the parent/guardian periodically.

Additionally, Local Inspection committee from University visits the Institute annually and conducts financial, academic and administrative audits.

7.2 Best Practices

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

Response:

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 5 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 10+2 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. In the present year, 15 such programs have been conducted at 10 different locations. 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. A few of them are:

<ul style="list-style-type: none"> • Solar powered sprayer • Foot operated pesticide sprayer • Semi-automated liquid pesticide sprayer • Drone pesticide sprayer • Paddy thresher • Seed drill for wet land • Multi-blade grass cutting machine • Hybrid rice seedling transplanting machine 	<p>These projects were executed by final year mechanical engineering students with technical expertise from Krishi Vigyan Kendra, Brahmavar with a view to help the agrarian community in the nearby villages</p>
<ul style="list-style-type: none"> • Pond/river water test • Udupi bus stand plan 	<p>These projects were undertaken by final year civil engineering students to help the general populace of the adjoining regions.</p>

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 marginalised 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 may cause hindrance to 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.

7.3 Institutional Distinctiveness

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

Response:

Holistic Education

Engineering your Career and Character with care:

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 more important than just having a career. Career may change, but an unshakeable character is a necessity for a life of contentment.

CAREER:

At our institute, we place huge importance on the following in view of building a good career.

Knowledge:

Engineering and general knowledge are of paramount importance for a technical career. In addition to classroom teaching based on the prescribed syllabus, institute 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 institute holds mini project competitions for all students annually. The students participate and showcase their technical skills, coupled with their fertile imaginations. The Placement Department trains the students regularly on soft skills and personality development. Technical skills are honed by regular hands-on training sessions on machines and on software. Many of our alumni are in consensus on the effectiveness of the above mentioned practices in shaping their communication skills and helping them get rid of stage fear and associated impediments.

Innovation:

Innovation Club encourages innovative ideas, which is also committed to cultivate innovation through the mini project initiatives that are undertaken regularly. 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. Many students have come up with thoughtful ideas, and have made them work with support from the club, staff and the management.

Entrepreneurship:

In addition to working at companies, careers can also constitute starting up one's own business or venture. Such initiatives also succeed in providing employment for many. The institute has an Entrepreneurship Development Cell that strives to provide all aspiring students to realize their entrepreneurship dreams. Resource persons from KSSIDC have presented talks on how students can set up their own small to medium industries by taking full advantage of the various government schemes available. A few of our alumni have also started their own establishments.

CHARACTER:

SMVITM strongly believes that the character of students is influenced by following factors.

Leadership:

The institute provides ample platforms for students to nurture and hone their leadership characteristics. 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.

Social responsibility:

The institute aims at creating socially responsible engineers, who will be able to contribute positively for socio economic development of our country. Institute's NSS unit undertakes camps and interactive sessions with notable figures from time to time. Community club, Human rights cell are working in tandem to instil human values, ethics and humility in students who can respond to the needs of society. Through

“Atal Tinkering Lab”, students are sharing their knowledge with students of identified schools of the community. Under “Unnat Bharat Abhiyan”, they are conducting surveys and contributing for the upliftment of community.

Cultural interests:

The institute believes that cultural activities in its premises, as well as at other institutes by our students will have significant impact on their overall growth. The institute has its own Yakshagana(local folk art) team comprising students, faculty and staff that performs at every Annual Day and other occasions. 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 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 event named “Varnothsava” is held every year, which is an inter-collegiate Techno-Cultural fest in which a large number of students from across the state participate enthusiastically. Correspondingly, the institute also encourages its students to participate at events held at other institutes. Due to this unfailing encouragement, the students have bagged numerous prizes both in the institute as well as outside.

Environmental aspects:

With the lush green campus, away from urban life, the campus feels closer to nature. The campus is clean and green, with the major part kept unexploited as a natural forest. The ECO club and NSS wing of 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:

The institute is owned and run by Shri Sode Vadiraja Math Education Trust, which belongs to the Sode Matha, one among the eight Vaishnava mathas of Udupi with over 800 years of lineage. 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.

Yoga sessions/courses are conducted regularly to channel the energy towards spirituality. Programs such as “Spiritual retreat” which are rich in spiritual content, are being arranged in recent times, to provide an opportunity to uplift one’s spiritual quotient.

There is a shrine dedicated to the worship of the guardian deity of the matha, Shree Bhootaraja, near the entrance of the institute. Annual Pooja is held for the same, coinciding with the annual Pooja at Naga shrine. The atmosphere of the institute is spiritually charged perpetually as a result.

File Description	Document
Any additional information	View Document

NAAC

5. CONCLUSION

Additional Information :

- Institute is a recognized nodal center for IIT Bombay Spoken Tutorial- MHRD initiative.
- Best local chapter award with 'A' grade certificate from NPTEL.
- Best student award by ISTE, Karnataka consecutively from past 4 years.
- Rotaract club of institute has been recognized as best club in Rotary dist.3182 for the years 2016, 2017 and 2018.
- Funds to the tune of around 69 Lakhs have been received from Government agencies like KCTU, KSCST, BRNS and VGST.
- Testing and consultancy unit of Civil Engineering Department is actively undertaking various works for PWD, Panchayath, Municipality and District authorities.
- Student project titled "Process Automation of Terzaghi's concept" has secured 1st Prize at university level competition for the year 2017-18
- Student project titled "Agri-Copter" has been recognized as best project in various state level competitions.
- Through blood donation drives, around 200-300 units of blood is collected every year.
- Institute has 16 MoUs and more than 150 linkages with reputed Institutes and Industries.
- Institute has collaborated with five nearby schools of the district as mentors under "Atal Tinkering Lab" (GOI initiative)
- Five villages have been adopted under "Unnat Bharat Abhiyan" (GOI initiative)

Concluding Remarks :

SMVITM has well-framed vision and mission, to meet the technological global challenges. Best academics, state-of-the-art-infrastructure, research laboratories, industry-interaction, self-learning, co-curricular and extra-curricular activities are some of the special features which ensures the holistic development of the students.

The governance is aided by Management, Governing Council, External Technical Advisory Board, Review Committee, Internal Quality Assurance Cell and College Academic Cell. The various institute level committees which also plays a significant role in the evolutionary reforms towards positioning the institute in preferred list of all stakeholders.

During the process of accreditation, the institute has acquired competency to critically assess our strengths, weaknesses, opportunities and challenges. The Institute is grateful to NAAC for providing this opportunity of self-assessment. The untiring efforts of our faculty and staff members in the data collection process including the documentary evidences are praiseworthy.

The institute's quality initiatives will ensure creation of a system of higher education which inculcates the values of discipline, cooperation, equality, patriotism, professionalism, social responsibility and mutual respect in students. This will lead to continuous growth comparable to best institutes around the globe benefitting all stakeholders of the institute.

The institute is eager to welcome the peer team from NAAC. Indeed, this accreditation will be a major milestone in the institute's journey, creating avenues for funded research activities. It will also serve as a catalyst in

accelerating growth towards nation-building efforts through holistic education.

NAAC