



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**PADMABHOOSHAN VASANTRAODADA PATIL
INSTITUTE OF TECHNOLOGY**

BUDHGAON, MIRAJ SANGLI

416304

www.pvpitsangli.edu.in

SSR SUBMITTED DATE: 21-02-2019

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

February 2019

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Our Institute Padmabhooshan Vasanttraodada Patil Institute of Technology (PVPIT), located at Budhgaon, outskirts of Sangli City on the way to Sangli Tasgaon Road, is established by Vasantdada patil Shetkari Sahakari Sakhar Karkhana Ltd. Sangli, under the Trust 'Dr. Vasantdada Patil Shetkari Shikshan Mandal' Sangli. This Institute was inaugurated at the auspicious hands of late Dr. Vasanttraodada Patil on 12th September in the year 1983. This institute is catering to education in Engineering & Technology at UG, PG and Diploma level. Institute offers eight UG programmes and seven PG programmes. P.V.P.I.T is one of the first private engineering Institutions in southern Maharashtra which still remains the flagship institute of the Dr. V. P. S. S. M.'s trust with the sole objective of meeting the long felt need of rural up-liftment which would meet the challenges of the present and the future technical advancements of the fast changing world. PVPIT has made a strong impact in the field of engineering education through its quality. It possesses 36 acres of land with sufficient built up area as per norms of AICTE at Budhgaon, Taluka Miraj. It is affiliated to Shivaji University Kolhapur for its Third and Final Year B.E. degree courses and Dr. Babasaheb Ambedkar Technological University Lonere, Maharashtra for First & Second year B. Tech. Courses. **P.V.P.I.T. believes in developing the overall personality based on the five core values of the P.V.P.I.T.'s holistic development policy –**

- **To develop a spirit of inquiry and achieve Academic Excellence**
- **To inculcate a sense of discipline and character**
- **To develop a spirit of Social Commitment**
- **To promote a Culture of Peace in the society**
- **To build a strong Industry – Institute Interface**

P.V.P.I.T. has witnessed the rapid development in education, often responding positively to changing needs and at times initiating significant changes with good infrastructure facilities and excellent learning resources.

With well qualified and dedicated faculty, the institute has grown to lead the societal development through UBA, UMA, SDP, CEP, EAC etc. Presently, we have more than 138 teaching faculty and almost more than 98 supporting staff.

Vision

To become a leading institute in providing high quality technical and engineering education to the aspirants and serve the industry and society through excellent educational programs, Creativity and Research.

Mission

To meet short term and long term engineering manpower needs for social, techno-economical development of region and nation through teaching, research, consultancy and service.

To contribute advancing of knowledge and wisdom in science and technology for the human welfare.

To cultivate skill, lifestyle and habits of lifelong learning to adopt knowledge based global civilization.

To create highest standards of education with noble values of ethics, morality, integrity and humanity.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Well qualified and experienced faculty. Average experience of faculty is 19 years.
2. Good and sufficient infrastructure
3. Well equiped laboratories with latest equipments.
4. Well furnished library with more than 60000 books, 175 e journals, e-books
5. Strong alumni base throughout the world.
6. Consultancy
7. NBA Accreditation for three programmes.
- 8.

Institutional Weakness

1. Less number of IPRs
2. Faculty publications in peer reviewed journals
3. Less number of R&D projects.
4. Lower placements in core industries
5. Communication skills
6. Rural location

Institutional Opportunity

1. Filing of IPRs
2. Collaboration with industry and national institute of repute.
3. Autonomy

4. Collaborative courses with foreign universities.
5. R & D projects
6. Establishment of Incubation/startup centre

Institutional Challenge

1. To get high input quality
2. Infrastructure development at par with urban places
3. To develop communication and soft skills
4. To compete with autonomous institutes.
5. Placement in core industries.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Institute is affiliated to Shivaji University Kolhapur for third and final year of B E degree and to Dr. Babasaheb Ambedkar Technological University Lonere for first and second year of B. Tech degree. Institute abides to execute the curriculum prescribed by affiliating universities. Before commencement of every semester academic calendar is prepared by Dean Academics in consultation with all HODs and academic calendar provided by university which is finally approved by Principal and displayed on all notice boards for students. The college meticulously develops action plans for effective implementation of the curriculum to achieve learning outcomes. Before the beginning of every semester, faculty meeting is conducted. Strategies for effective deployment of curriculum are planned to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits apart from regular/traditional teaching methods. Academic calendar is evolved to incorporate all the curricular and cocurricular activities such as tests, industrial visits, guest lectures, etc. Teaching plans of teachers are prepared based on the Academic Calendar. Work load distribution is done by HOD according to area of specializations skills and choice of faculty member. Subject files are prepared and maintained by each faculty which is reviewed by the Head of the Department during the weekly meetings and once in a semester by Dean Academics & Principal. Each faculty maintains academic diary containing all records of students performance and individual records of faculty member. Dr.BATU is using app for online attendance of students to avoid any malpractice in credits earned. The curriculum of Dr.BATU is continuously upgraded to bridge the gap between industry and academia. Some of the faculty members represent our institute on BOS of University.

Teaching-learning and Evaluation

At the beginning of every semester, faculty meeting is conducted. Strategies for effective deployment of curriculum are prepared to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits apart from regular/traditional teaching methods. Attendance in all classes is mandatory. Minimum required attendance in each theory / laboratory course is 75 % for appearing at the end semester examination. Only in exceptional cases condonation of shortage of attendance up to 15% may be granted by the Heads of the Department concerned. In any case if the attendance is less than 60% he/she will not be permitted to appear for the semester examination for that subject and he/she has to re-register for that subject when offered next.

Academic calendar is evolved to incorporate all the curricular and cocurricular activities such as tests, industrial visits, guest lectures, etc. Teaching plans of teachers are prepared based on the Academic Calendar. Work load distribution is done by HOD according to area of specializations skills and choice of faculty member. Subject files are prepared and maintained by each faculty which is reviewed by the HOD, Dean Academics and Principal. Each faculty maintains academic diary containing all records of students performance and individual records of faculty member.

Evaluation in the theory courses is done for a total of 100 marks. Mid-Term Test 20%, Continuous Assessment 20% and End Semester Exam 60%. Two continuous assessments are in the form of announced Quizzes, class tests (open or closed book), home assignments, group assignments, viva-voce discussions, etc. The teacher announces the mode of continuous assessment at the beginning of the course.

For subjects like laboratory/design (intra semester assessment) Continuous assessment 60% and Examination/Viva 40%. The continuous assessment is based on regular attendance for laboratory sessions, completion of experiments, viva -voce examination, journal submission, assignments, project, experiments, announced tests. The end semester examination in laboratory is conducted by one internal and one external examiners together. There will be continuous assessment of a student's performance throughout the semester and grades are awarded by the university committee appointed for the purpose.

Research, Innovations and Extension

The institute takes efforts to build capacity of individuals in terms of technical expertise, research publications, projects of social benefit and development of nation. Institute provides full infrastructural and administrative support for overall development of students. Faculty members are provided with monetary benefits of consultancy and the expenses for patenting are taken care by the institute. Collaborations and MoUs signed with industries and institutes help leverage the R&D activities. Attempts are made by the institute for obtaining grants and have shown positive impact. R&D activities are being strengthened and interaction with industry is increased through faculty visits. Efforts are being made to solve real life problems and developed technology is transferred to end user. R&D Cell motivates and guides faculty members and students to take up innovative and creative projects which have resulted into participation at national and international level competitions. Large number of students have participated in Smart Hackathon, innovation competitions organised by industry and institutes. Faculty members as reviewers and editors of international journals inspire peers and promote research culture. Students and faculty members are extensively motivated for extension activities and volunteer services through the platform of National Service Scheme (NSS). Many students participate in activities, which are conducted at

institute, university and state level to learn and demonstrate the spirit of responsibility towards nation and community. The institute solemnizes students for the core universal values like truth and righteousness on all possible platforms like annual cultural festival, sports meet and technical events. Institute is playing key role in Unnat Bharat Abhiyan and other state & central government schemes. Institute is providing consultancy services to government and private bodies in the field of water infiltration, structural audits, water purification systems, Jalyukta shivar scheme etc.

Infrastructure and Learning Resources

The institute has provided adequate and quality infrastructure to all incumbents. Augmentation of infrastructure is done periodically as per the needs of changing technology. The institute infrastructure satisfies the requirements given by the apex body AICTE.

IT infrastructure includes 200 Mbps of leased line connection, connecting all more than 600 computers through 1GBPS LAN network. The central library has library management software: ILMS- Vidyasagar Lib Software, Books, e-journals, e-books, Manuscripts and knowledge resources. The library has institutional membership of Springer, DELNET, e-shodhsindhu and National Digital Library. A significant amount of the annual budget is utilized for procurement of books, e-journals, print-journals and periodicals.

The facilities made available by the institute for sports and cultural activities are also considerably good. The supports obtained by students in sports and cultural activities are reflected through the student achievements in competitions organized at National and State level. In addition to this, other facilities like photocopying, health care center, canteen etc. are available on the campus. The hostel facility for girls and boys is available.

Institute has added the provision of learning management system (MOODLE) in its teaching-learning environment. The resources available on the LMS are used by the students and faculty members during regular teaching- learning process in all class room

and laboratories. The provision of smart board is also made available at selected locations in institutes. One classroom is equipped with lecture capture facility. One seminar hall is equipped with video conferencing facility for delivering online lectures are the notable features of the Institute. Training and Placement (T & P) cell provides adequate infrastructure for trainings, placement and co-curricular & extracurricular activities. Ramps and lifts are provided for physically disabled students.

Uninterrupted power supply is ensured by installing express feeder line from Maharashtra State Electricity Board with back up generator facility of 150 KVA. Pur and clean drinking water is made available to students throughout the campus. The Institute has separate centralized cells for maintenance and to upkeep the infrastructure, campus facilities and equipment's.

Student Support and Progression

Management of the institute supports the students in all possible ways. The responsibility of extending benefits to the students by means of scholarship and free ships is given to staff from administrative department. It is ensured that all eligible students get the scholarships. The meeting of all Principals is called by district collector and periodic reviews are taken. Poor and needy students are supported by giving additional concessions in fees, free food, books etc. There exists an effective mechanism to deal with the student services which includes personal and career counseling, competency and skill development programs, free GATE coaching,

free MPSC/UPSC coaching. The need of diverse learner is also taken care by means of Add on courses, practice sessions and remedial actions. Whenever required institute joins hands with external agencies to impart required training to enhance the skills. Right from commencement of semester through established mechanism institute ensures environment of safety and security for students, thus till date no case of ragging and sexual harassment has happened in institute. The mentor, HOD and TPO works hand in hand to understand the need and strength of students, so as to groom them properly. Exclusive training sessions are organized through training and placement cell for students so as to ensure success. Institute provides platform to showcase student's co-curricular and extracurricular activities in which the student's participation is encouraged. Students contribute at National and International technical as well as sports competitions and grab the awards. Every year different social activities are organized under NSS Cell which helps to percolate social and ethical qualities amongst the students.

Governance, Leadership and Management

The institute is governed by Dr. Vasantdada Patil Shetkari Shikshan Mandal, a body of Vasantdada Patil Shetkari Sahakari Sakhar Karkhana (VPSSSK) Ltd. Sangli. It is an elected body by the members of VPSSSK Ltd Sangli. The Chairman of VPSSSK Ltd. is chairman of college committee. College committee frames the policies and procedures to run the institute as per the guidelines of DTE Maharashtra, AICTE New Delhi and University. The institute strictly follows all rules and regulations of government and university and has never become defaulter in any case.

This institute is lead by a visionary chairman Mr. Vishal Patil with an ambition to reach top position in best institutes. His constant motivation and support to staff and students has lead to healthy environment in the institute. There is complete transparency in administration and accounts. Governing council is constituted as per AICTE guidelines which takes all decisions related to academic and infrastructural development of the institute. Local management committee is constituted as per the Maharashtra Universities act 2014 and all decisions in regards to promotion and welfare of faculty and staff are taken in LMC meetings which are then approved by GC & College committee. Faculty and supporting staff are governed by service rules given by UGC/University and government. Grievance redressal committee is in place and grievances are addressed through proper channel. The roles and responsibilities of various positions, bodies and committees are well defined. All the policies are developed and documented in "Admin-manual" of Institute. Governance is partly in e- form and remaining part is in development stage. All activities related to students and accounts are managed by e-governance.

Institutional Values and Best Practices

The institution has promoted the education that is sensitive to the various sections of the society. Students of both the genders are given equal opportunities to grow and develop into able responsible citizens of future. They are equally promoted to participate in sports, technical events, NSS, organising social and cultural programs and competitions. Institute has taken efforts to save energy using Solar water heating systems for hostel premises, waste water is properly treated and reused for watering plants. Measures to implement green initiatives have been taken. Students are given training in safety precautions and disaster management.

Students are given students information manual at the start of semester which includes all information about the courses to maximize the learning quality of student during that respective semester. It also includes the academic activities, course objectives with teaching plan.

Students are encouraged to undertake the projects related to agricultural based equipments. The institute is situated in rural area and 70% students belong to farmer families hence they know more about the needs and requirements of farm equipments. The institute is working in association with krishi vigyan kendra Kanchanpur, sangli to develop solutions for agri related issues.

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2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY
Address	Budhgaon, Miraj Sangli
City	Sangli
State	Maharashtra
Pin	416304
Website	www.pvpitsangli.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Dinkar Vishnu Ghewade	0233-2366246	9049504851	0233-2366185	degreeprincipal@pvpitsangli.edu.in
Associate Professor	Deepak B Kadam	0233-2366245	7972345506	0233-2366398	hod.etc@pvpitsangli.edu.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	12-09-1983

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

State	University name	Document
Maharashtra	Dr. Babasaheb Ambedkar Technological University	View Document
Maharashtra	Shivaji University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	31-05-2018	View Document
12B of UGC		

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

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

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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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	Budhgaon, Miraj Sangli	Rural	25.99	375516

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	BTech,Mechanical Engineering	48	HSC	English	120	71
UG	BTech,Mechanical Engineering	48	HSC	English	120	71
UG	BTech,Civil Engineering	48	HSC	English	120	81
UG	BTech,Civil Engineering	48	HSC	English	120	81
UG	BTech,Chemical Engineering	48	HSC	English	60	51
UG	BTech,Electrical Engineering	48	HSC	English	60	39
UG	BTech,Electronics Engineering	48	HSC	English	60	22
UG	BTech,Electronics And Telecommunication Engineering	48	HSC	English	60	26
UG	BTech,Instrumentation Engineering	48	HSC	English	60	22

UG	BTech,Computer Science Engineering	48	HSC	English	60	53
PG	Mtech,Mechanical Engineering	24	BE	English	24	6
PG	Mtech,Mechanical Engineering	24	BE	English	24	5
PG	Mtech,Civil Engineering	24	BE	English	18	18
PG	Mtech,Chemical Engineering	24	BE	English	24	1
PG	Mtech,Electrical Engineering	24	BE	English	24	23
PG	Mtech,Electronics Engineering	24	BE	English	24	0
PG	Mtech,Electronics And Telecommunication Engineering	24	BE	English	24	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	15				32				102			
Recruited	2	0	0	2	23	5	0	28	64	23	0	87
Yet to Recruit	13				4				15			
Sanctioned by the Management/Society or Other Authorized Bodies	4				0				41			
Recruited	4	0	0	4	0	0	0	0	27	14	0	41
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				39
Recruited	39	0	0	39
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				25
Recruited	24	1	0	25
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.	2	0	0	7	1	0	0	0	0	10
M.Phil.	0	0	0	1	1	0	0	0	0	2
PG	0	0	0	28	1	0	64	23	0	116

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	1	0	0	1
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	32	14	0	46

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	1976	5	0	0	1981
	Female	840	1	0	0	841
	Others	0	0	0	0	0
PG	Male	76	0	0	0	76
	Female	41	0	0	0	41
	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	163	163	152	138
	Female	103	103	83	61
	Others	0	0	0	0
ST	Male	0	0	3	4
	Female	0	0	2	0
	Others	0	544	0	0
OBC	Male	544	318	473	472
	Female	318	0	245	216
	Others	0	0	0	0
General	Male	950	950	836	867
	Female	523	523	456	426
	Others	0	0	0	0
Others	Male	175	156	229	239
	Female	0	0	0	0
	Others	0	0	0	0
Total		2776	2757	2479	2423

3. Extended Profile

3.1 Program

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

Response: 440

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
18	18	15	13	12

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2939	2776	2757	2479	2423

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
1521	1435	1353	1096	1020

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
679	605	574	490	431

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
175	172	168	154	143

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
212	200	188	172	160

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 38

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

2017-18	2016-17	2015-16	2014-15	2013-14
487.45521	445.16623	333.15531	359.82073	347.12076

Number of computers

Response: 736

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:

Institute is presently affiliated to Shivaji University, Kolhapur as well as Dr. Babasaheb Ambedkar Technological University, Lonere (DBATU).

- To achieve educational goals of an institute, it abides to execute curriculum framework provided by the affiliating universities, by implementing academic plan using potential of resources.
- Before commencement of every semester, Academic Calendar is prepared by Dean Academic in consultation with all HODs as per the guidelines of affiliating universities, which is finally approved by Principal.
- Load distribution is carried out by HODs according to area of specialization, skills, experience and choice of faculty.
- The department time table for each semester is prepared and communicated to all the concerned.
- Every faculty member prepares teaching and lesson plan for the course to be handled, in linewith the university syllabus, which is further approved by HOD.
- Department has DAAC (Departmental Academic Advisory council). Members include HOD, senior faculty members, Representation from Industry, Alumni. Their views on curriculum are taken in to account for improving teaching learning process as well as academics.

- Each Faculty maintains a course file providing all the information necessary for implementation of the curriculum such as,

1. Institute Vision, Mission
2. Department Vision Mission, PEOs, POs
3. Course Syllabus
4. Course Objectives and Outcomes.
5. Mapping of COs with POs
6. Teaching Plan, Lesson Plan.
7. University Question Papers and model solution.
8. Question Bank.
9. Notes (Hard/Soft Copies), Assignments, Tutorials.

- Each Faculty also maintains academic diary containing Students Attendance as well as Continuous Assessment Record.
- Department allocates a group of 20 students to each faculty member for mentoring.

Students are mentored to improve their academic performance, to set their short term long term goals and setting a path to achieve them.

- Faculty is encouraged to impart the curriculum through conventional as well as innovative teaching methods.
- The slow and advance learners are identified based on their test performance and class room interactions. Extra support is provided to them through remedial lectures.
- Student are asked to submit a Feedback about each course and faculty twice in a semester, those are then assessed by HOD and forwarded to Faculty members for corrective actions.
- Ta the end of the semester, CO attainment is calculated based on performance of students using assessment tools like, his performance in Tests, Laboratory work, University Examination.
- PO attainment is computed based on attainment of COs, Alumni Feedback, Employer's Feedback.
- The attainment is then discussed in DAAC meeting, and Guidelines are set for corrective actions.
- The institute has Academic Monitoring Committee (AMC) which monitors the progress of teaching learning process, takes periodic review and gives the feedback to concerned HOD. So that appropriate corrective action is taken at department level to improve the teaching learning process.

Feedback is also taken from the students and faculty members, in order to evaluate effectiveness of the execution of curriculum using student feedback form and Faculty self-appraisal through Performance Based Appraisal System (PBAS)

File Description	Document
Any additional information	View Document

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

Response: 0

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
0	0	0	0	0

File Description	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: 42.49

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
9	15	26	13	6

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

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 14.09

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

Response: 62

File Description	Document
Details of the new courses introduced	View Document
Any additional information	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 18

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Any additional information	View Document

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

Response: 0

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
0	0	0	0	0

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:**Gender Issues:**

Institute follows admission rules of DTE for reservation of male and female students.

Equal opportunities are given to both the genders in terms of admissions, employment, training programmes, sports activities etc., and so gender issues do not arise.

Institute organizes guest lectures of renowned women personalities in society especially for female students through Student Association activities.

Women's day is celebrated with vigor in the Department.

Female students are encouraged to Participate and handle various Positions in Student Association along with male students.

Girls and boys participate in various co-curricular activities such as paper presentations, organization of paper contests, group discussions and technical quiz programmes. Both boys and girls are made members of various clubs associated with academic, co-curricular and extracurricular activities.

Environmental Science and Engineering:

The long term effect would be seen when nation develops and this leads to sustainable environment. Sustainability is achieved by reducing e-waste, implementing green technologies, adopting energy efficient

and effective technologies. The curriculum supports all the mentioned techniques to maintain ecology and ecosystem. It is necessary to understand impact of human behavior and technological advancement that exists in various courses such as Environmental Engineering and Energy Audit and Management are implemented at different levels. It deals with various issues regarding parameters such as pollution, concept of water supply and its treatment and their applications in modern era. Environmental impact assessment and management regarding development of nation is initialized through courses such as Environmental Science and Engineering

As conscious effort students are encouraged to participate in activities of NSS, MESA related to environment such as Swach Bharat Abhiyaan, Tree plantation programmes.

Final year students are encouraged to take projects which address environmental issues.

Human Values and Professional Ethics:

Imparting effective human rights education according to legislative fundamentals which help individual to identify and adapt personal and social values for welfare of society is achieved through various courses such as Professional Skill Development, Human and Professional Ethics, Basic Human Rights as part of curriculum

Faculty mentors create awareness on Engineering Ethics and Human Values, to instill Moral and Social Values and Loyalty and to appreciate the rights of others through mentoring. They also help students to understand and find an ethical solution for the workplace and society issues which hinders the society at large. This also enables the students to create an awareness on business ethics and human values which also instills moral and social values.

The institute takes additional efforts through National Social Service (NSS) and through Student associations to make students sensitive towards Human values, by organizing Blood Donation Camps, teaching rural children, adaption of village. MESA also Organizes Blood Donation Camps, Eye Checkup Camps.

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: 2

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

Response: 2

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

1.3.3 Percentage of students undertaking field projects / internships

Response: 24.29

1.3.3.1 Number of students undertaking field projects or internships

Response: 714

File Description	Document
List of students enrolled	View 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

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: B. Feedback collected, analysed and action has been taken

File Description	Document
Any additional information	View Document

NAAC

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

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

Response: 0.11

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
6	6	3	1	0

File Description

Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 67.59

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
1009	830	934	799	817

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
1554	1468	1385	1122	1050

File Description

Document

Institutional data in prescribed format

[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:** 30.09

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
402	384	387	400	328

File Description	Document
Institutional data in prescribed format	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:**

Based on state level merit, the entire admission process is controlled by Pravesh Niyantaran Sameeti, Government of Maharashtra. Institute and department organizes orientation program for newly admitted students. The allotted seats to this institute have diverse learning styles and wide range of low merit to high merit students. Thus, need exists to identify the learning style and to develop a common platform catering to the need of all learners, as they progress in graduation. In order to achieve this, the students are first classified on the basis of their qualifying mark, which involves student capability analysis. Class a teacher, subject in charge and mentors analyzes the students for their learning level and identify them into three categories viz advanced, average and slow learners. Well-designed course manual is made available to all students, which also address the need of average learner.

Response to special educational/learning needs of advanced learners:

- Additional self-learning material on advanced topics and topics beyond syllabus is provided.
- The institute encourages advanced learners to take-up mini projects; undergo internships in industry and industry sponsored projects.
- Providing extended facilities to file a patent or product design.
- Institute promotes advance learners by organizing and participating technical events held at national level.
- Encourage student for civil service examinations such as UPSC and MPSC.
- EDC cell has been formed at institute level to aware students about Entrepreneurship.
- Promoting students for GATE, GRE, TOFEL, GMAT, CAT and PSU.
- Promoting interdisciplinary projects at BE level, PG level as well as interdisciplinary competition such as TIFAN, SUPRA, BAJA and GO-Karting etc.

Response to slow learners:

- Pre-requisite content is covered before starting the topic.
- First year department organizes training programs for handling engineering aids like drafting tools, scientific calculator and basics of computer.
- Based on the performance in internal tests, assignments, practice sessions and remedial lectures are conducted to ensure learning up to required extent.
- One extra hour per week is allotted in the timetable for analytical subjects to enhance the problem solving skills of slow learners.
- Personal counseling on academics by subject teacher and counseling by Mentors on other stress related issues.

The facility of self-learning lab equipped with department library, Virtual lab, NPTEL videos, and Recorded video conference lectures at VC room on various topics are available

File Description	Document
Any additional information	View Document

2.2.2 Student - Full time teacher ratio

Response: 16.79

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.03

2.2.3.1 Number of differently abled students on rolls

Response: 1

File Description	Document
List of students(differently abled)	View 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:**

The institute emphasizes and adopts student centric methods for better understanding of the subject. The teachers are provided with all the necessary support (infrastructural as well as administrative) for developing skills among the students. The systematic efforts by the institute in this regarding include experimental learning, participative learning and various problem solving methodologies, as shown in figure below.

https://drive.google.com/open?id=1u45LhVIKZc0_0ReDCtz7e1htyZc3htDF

Teachers prepare the teaching plan, both for theory and laboratory practical well in advance. The teaching plan and the laboratory plan include teaching methodology, teacher activity, and student activity, learning material and assessment tools. The laboratory plan and the self-assessment of practical for students and faculties are employed for assessing the understanding level of students.

The institute adopts a strategy for making students more active in acquiring knowledge and skills through various activities in class, fieldwork, and the use of computer-assisted learning packages. Efforts are made to make students more aware of what they are doing and why they are doing it, by using self-learning laboratories and presentations. Teachers provide guidance for selecting project/seminar topic, research papers. Project log books are maintained for ascertaining the smooth progress of their project work during the academic year.

Institute organizes many co-curricular and extracurricular activities, where the students are encouraged to actively participate and demonstrate what they have learnt during the semester. **NIRMITI** and **BUILDSMART** are some of technical activities. Students are also encouraged to participate in other activities to participate in other activities outside the campus at different levels. Institute provides all support for the students to participate in national level competitions organized by Society of Automotive Engineers (SAE), TIFAN, SUPRA, BAJA and GO-Karting etc. Students also have been participating in State level competitions like VASANT KARANDAK regularly. The methodology adopted for effective implementation of student centric learning in the institute includes problem-based learning, group project work, field work, classroom workshops and group presentations. Students and faculty member's efforts in the various activities are appreciated in institute magazine. Student performance is monitored by formative and summative assessment during the course using tools like quizzes, assignments, tests, mock orals and practical, multiple choice question (MCQ) tests, open book tests, project competitions and presentations. Along with green board the classroom are equipped with LCD projector, OHPs. This enables to share NPTEL videos, e-books resources with student during classroom teaching. The digital facilities provided encourage faculty to adapt advance teaching methodologies. Feedback from all stake holders is taken for improving performance of students and faculty memberships outside the campus at different levels.

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: 100

2.3.2.1 Number of teachers using ICT

Response: 175

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document

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

Response: 16.89

2.3.3.1 Number of mentors

Response: 174

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

1. Innovative development of laboratories: Laboratories are designed and developed in line with industrial requirements. The required standards are followed during conduct of experiments. Innovative operating manuals for each setup/instrument are developed by the faculty members and are made available to the students for use.

2. Self-learning laboratory:

Self-learning laboratory is used to design and explore transformational learning environments. The topic wise video lectures from NPTEL help to understand concepts in-depth. The use of virtual laboratories gives opportunity to learner for simulating/optimizing the situation. Individual understands his learning level through self-testing.

3. Using e-resources: e-Resources aids the faculty members to deal with abstract concepts in the classroom. Assignments are given to the students which helps them to bog down to greater details. The inherent characteristics of e-resource to use it anytime anywhere are taken advantage of which is aided by the high broadband Wi-Fi availability in the campus.

4. Establishing Activity cells: Development of specific attributes amongst the students is achieved through activity cells. Honesty, hard-work, team-work, social work, national integrity and development are

imbibed amongst students through these cells purposefully through specific activities. Different activity cells are established by students for awaken their hidden arts like singing, dancing etc. by ART SPECTRUM at institute level. Also one social group is formed A.P.J.KALAM foundation at institute level for carrying out activities like blood donation camp, women's day celebration, tree plantation, donations to various organizations. Learning through Field Visit of the students in corresponding fields to grow the knowledge and skills in current technology which is important in a career growth of the student, who is pursuing a professional course.

5. Closed monitoring for effective system performance: Academic monitoring committee at the institute level and department level ensures implementation of academic plan for achieving the set targets. The established mechanism provides opportunity to the committee to get information about the status of academic activities at any given moment thereby making it feasible to take corrective actions if required. Such close monitoring has boosted the institute results especially at final year.

6. Self-analysis through SWOC: Annually, SWOC is carried out institute level. Efforts, institutional strength like faculty and infrastructure is utilized to train the candidate effectively and efficiently. The area of weakness to have strong linkages with stake holders is underlined. The opportunity to become MOU with industries need to explore. The higher rate of technological changes needs to be incorporated in the Add-on which may pose challenge in time to come.

7. Audio video recording of lectures: It is used to record the lectures delivered by faculty. Similarly, it is used to record student presentations and mock interviews which help to improve upon their performance.

8. Skill building through model competitions:

Technical skill building is promoted by organizing model making competitions. The constraints like, economy, environment, time, energy and efforts are highlighted in the problem definition. These competitions ensure contemporary skill building amongst Students as well as faculties. Also provides opportunity to the students to exhibit skills to probable employer/sponsorer.

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: 87.36

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: 7.54

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
14	15	15	11	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: 9.41

2.4.3.1 Total experience of full-time teachers

Response: 1647

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: 9.85

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
6	4	4	2	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: 6.46

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
13	13	12	11	11

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 process of continuous internal evaluation has been changed from teacher centered to student centric outcome based system. The process of continuous evaluation is employed through various tools like, assignments multiple choice questions, chapter test, and practical, open book test and surprise test and mid-Semester examination.

Faculty member assesses the student learning whereas opportunity is provided to the student for self-assessment. It is expected that, the assessment of faculty and student in this regards should match tentatively. If there are any major miss match highlights lacuna in in assessment such as either the student has rated high or has under estimated himself. In such scenario, faculty is supposed to provide appropriate feedback to the candidate so as to achieve the outcomes.

The assessment of practical not only ensures the course outcomes but also ensures the required achievement in terms of program specific outcomes and program outcomes. This process also brings transparency in assessments and boost confidence among faculty as well as students. Also tests helps the learner to know exactly where the strength exists and where the weakness. As a result of this the student can focus on weak part and improve the same.

Continuous evaluation through assignments helps to know the student capabilities to deal with subjective matter, express alternative and creative solutions, power of communication covering breadth and depth of situation and accordingly, train them. Evaluation of projects and seminars is carried out ensures course outcomes and program specific outcomes. For this, suggestions from industrial persons are taken into account for further improvement in seminar and project work. The selection of candidate in various companies is used as a tool to assess and evaluate the institutional processes from the perspective of effectiveness.

In particular case, where student is not completing the expected activities leading to delayed assessment, under such cases, the student is counselled and to complete the activities timely. However if positive results are not turned out, then the parents are involved in guiding and counselling the candidate. Parent is made a part of assessment process with respect to timely completion of activity.

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 assessment is given prime importance in the system. The mechanism adopted for internal assessment ensures transparency is as elaborated below

1. The internal marks are based on mid semester test, attendance percentage and timely completion of submission and the record of same is maintained in academic diary evaluation of each student at each practical is according to students performance. Internal marks and attendance are periodically communicated to parents.

Internal Mark Distribution

Journal/ assignments (10)	Internal Viva (05)	Test marks (05)	Lecture attendance (05)	Total marks (25)
Journal/ assignments Marks based on continuous assessment	Student get marks based on oral performance 1 to 5	Conversion of 50 marks in to 5 Distribution	Conversion of lecture attendance in to 5 marks	

	Absent – 00 M	00 to 25 % – 01 M	
	01 to 10 – 01 M	25 to 49 % – 02 M	
	11 to 19 – 02 M	50 to 59 % – 03 M	
	20 to 29 – 03 M	60 to 69 % – 04 M	
	30 to 35 – 04 M	75 to 100% – 05 M	
	35 to 50 – 05 M		

2. Evaluation of internal marks for seminars and projects is carried by considering the performance of student which include literature survey, selection of topic, use of methodology, experimental setup, results and discussion, progressive presentations and preparation of seminar and project reports with relevance of course outcomes, program outcomes, and program specific outcomes

Project marks Distribution

Work Diary (10)	synopsis (10)	Project report (20)	Presentation (10)	Total out of (50)
Students have to maintain regular work progress in their work diary	Synopsis having 10 marks and according to their involvement get marks out of 10	Project report having 20 marks and according to their involvement get marks out of 20	According to individual performance in presentation student get marks out of 10	

3. The answer scripts of mid semester examination, open book test and surprise test are shown to the student after evaluation to bring out the discrepancies if any to the notice of the teacher concerned and necessary corrections are carried out.

4. The student are made aware of evaluation procedure including reevaluation, examination pattern of college and university well in advance during lecture and practical hours as well as through circulars and notice.

Institute recognizes the potential and barriers of the learner in terms of expressing their strengths and learning achievements. Thus variety of tools as mentioned above is employed for assessments.

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 institute appoints controller of examination and SRPD in charge (Secured remote paper delivery) for conduct of university examination and making policy decision in regard to organizing and holding examination and deal with examination related grievances from students.

The following are the common grievances which are normally addressed are as below:

1. Student may be marked absent for particular paper / subject, even after appearing for the paper
2. Non receipt of mark sheet after declaration of result
3. Non declaration of result of student
4. Inability of submission of examination form by student within time
5. Non-issue of hall ticket for examination
6. Correction of Name in mark sheet
7. Special examination for student participated in university tournaments
8. Re-valuation

<https://drive.google.com/open?id=1FXwcVfQURPccRcXdLdfIuL2rUsavzUrg>

The working mechanism is as below

1. Under all grievances, the institute is responsible to help students to solve their issues. Students application along with the endorsement of Registrar and Principal with all necessary documents is submitted to university
2. The office representative takes the follow up from the university as per norms
3. Those students, who get fewer marks than expected marks or fails in the subject, have to apply for photocopy of answer sheets. Conventionally the university has a process of providing a photo copy and revaluation to deal with such grievances.
4. As per university rules the student has to apply online on university website through his login and provide the necessary details related to his complaint.
5. After submitting online form hard copy of application with necessary fees has to be deposited in the college office.
6. University provides soft copy of answer sheet on student email ID within a month for the examinations conducted by DrBATU, Lonere and hard copy of answer sheet for the examinations conducted by Shivaji University. With the photocopy of answer sheet received student can further apply for revaluation.
7. Student then apply online through his login and submit hard copy of application for revaluation.
8. The University according to the norms reassess the papers and then if there is a change in the marks obtained by the students it will be communicated to the respective students.

File Description	Document
Any additional information	View Document

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

Response:

The institute has an academic monitoring committee which is responsible for monitoring and smooth conduction of the academic processes in the institute. The academic monitoring committee prepares the institute level academic calendar with reference to the university academic calendar at the start of the semester. The internal assessments techniques adopted by the faculty of their respective subjects are communicated to the students at the start of the semester along with the schedule to ensure well preparedness of the student for the same. Such activities are scheduled by taking the departments in to consideration.

The academic monitoring committee takes the periodic review of each department in order to ensure that the assessment activities mentioned in the respective academic calendar are carried out as per schedule. The deviations if any are brought to the notice of the concerned head of the department and corrective action is sought. The corresponding head identifies the time slot for assessment in consultation with departmental academic monitoring committee, class teacher, and mentor in case of deviation. The identified slot is conveyed to the students and faculty with considerable time span.

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:

The institute has different central committees for continuous monitoring of quality standards in every department. Basically IAAC, IQAC, DACC are the committees which are looking after the quality enhancement of department as well as Institution. Institute follows outcome based education (OBE) for overall development of students.

Institute has its vision and mission statements. Every department has framed their vision, mission, PEO's, PO/PSO's CEO's and Cos to implement OBE in every department. Hence it is very important that every external and internal stakeholder should know the happenings in the institute which is going to be implemented for overall development of students.

In the institute we have very good practice of preparing the Student Information Manual (SIM) before the start of every semester. The SIM consists of detail information of different courses, its syllabus, references, tutorials, home assignments to be conducted throughout the semester and more importantly the CEO and CO of every course. It also focuses on mapping of CO with PO/PSO's along with weightage. The SIM also includes Institute and department academic calendar with additional programs to be conducted throughout the semester in advance. Further it includes the rubrics form which elaborates regarding how the term work marks are distributed.

Before the start of semester the hard copy and soft copy of SIM is distributed to every students where they get detail information of CO, PO/PSO's, etc. The same SIM copy of every department is available on Institute website. The faculty incharge is defining the CEO's and CO's the course and hence they are well aware of this procedure. Before the start of instructional session the faculties discuss the details of CO's for their allotted courses in the classroom sessions. Lab Manuals are prepared by the faculty members who are also consisting of objectives of the every experiment along with CO/PO mapping of that particular course. This is the very well adopted method of communicating CEO/CO, PO/PSO's to the internal and external stakeholders.

Apart from this following are the ways of disseminating the CO/PO to the internal and external stakeholders are summarized as follows.

1. Important places in the department
2. Laboratories
3. Laboratory Manuals
4. Student Information Manual (SIM)
5. Departmental Newsletter
6. Admission Brochure
7. Course Files of Faculty
8. Institute website
9. HOD office
10. Departmental Library

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 institute has different central committees looking after quality standards and suggest continuously to every department for enhancement in the quality. Institute academic advisory committee (IAAC), Institute quality assurance cell (IQAC) continuously monitors the performance of every department and give suggestions accordingly. Every department has Departmental academic advisory committee (DAAC) which approves the suggestions from central committees and implement it.

Every department has set its own program outcomes (PO) along with Program specific outcomes (PSO's) by adhering to mandatory program outcomes of NBA, New Delhi and Graduate attributes as per the Washington accord. These PO's are the attributes to be possessed by the graduates upon completion of their graduation. Hence calculation of it is essential.

The PO/PSO attainment is calculated on the following basis. The attainment is the combination of direct (70 %) and indirect attainment (30 %). The direct attainment is further divided into direct attainment through external examinations (university examinations) (70%). This includes the performance of students in their university examinations such as theory, oral and practical examinations. The direct attainment through internal examinations (30%) which includes midterm and end term examinations, tutorial, home assignments, etc. The indirect attainment is calculated on the basis of stakeholder's feedback such as alumni, employer's feedback, Placement records, exit survey, additional programmes, etc. The 30% weightage is divided in these contributing factors. The weightage may vary according to its importance.

Following is the procedure adopted by our intuition for CO and PO/PSO attainment. Every faculty who is the incharge of course is going to define Course Educational Objective(s) (CEO) and course outcomes (CO). The incharge faculty also does the mapping between CO and PO. The proper emphasis is given to CO/PO table by considering its importance to attain PO. The CO-PO/GA correlation is shown in figure 2.6.2.1.(Refer link page)

At the end of each course, the COs need to be assessed and evaluated to check whether it has been attained or not. The weightage to each CO is given by concerned incharge. The CO calculation is done according to external (university examination) and internal assessment. The sample CO attainment calculation with its weightage is depicted in Fig 2.6.2.2 (Refer link page)

This CO attainment procedure gives the attainment percentage of every student and finally average of each co attainment is taken. As per the emphasis table PO attainment due to particular course is calculated. This is done for all courses and finally PO attainment is calculated and finally average is taken. This PO attainment is calculated batch wise. Then it is compared with the target .If it fullfills the target the next target is set for an improvement. If it is not attaining the target, then reason for not attaining the target is found out and correction methods for improvement are applied. Apart from the regular pattern additional co curricular programs for students are consistently organised to improve the overall attainment. The figure 2.6.2.3 shows the PO/PSO attainment weightage and calculation Procedure.(Refer link page)

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

2.6.3 Average pass percentage of Students

Response: 83.62

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

Response: 679

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

Response: 812	
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:

NAAC

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: 66.12

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
46.30	2.11	1.53	4.76	11.42

File Description

Document

List of project and grant details

[View Document](#)

e-copies of the grant award letters for research projects sponsored by non-government

[View Document](#)

3.1.2 Percentage of teachers recognised as research guides at present

Response: 1.71

3.1.2.1 Number of teachers recognised as research guides

Response: 3

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

Response: 0.5

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

Response: 81

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

Response: 812

File Description	Document
Supporting document from Funding Agency	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:

The Institution is having a well-established Eco Systems for development, innovation & incubation activities. The Institution is having a very active Entrepreneurship Development Cell Since from 2000 funded by AICTE with grant of Rs. 5.0 Lacs in the year 2004-05. The activities like entrepreneurship development, skill development are carried under this cell & T.P.O. Incubation centre of the Institute is in process of establishing. The Institute has received various grants of approximately average of Rs.13.16 Lakhs per year from different Government Organization for e.g. AICTE New Delhi, Shivaji University Kolhapur etc. consistently. Institute also receiving grants from Industrial Organization for Post Graduate and Under Graduate Project work. The institution have jointly organized many Faculty Development Programme, Entrepreneurship Awareness Camp, Entrepreneurship Development Programm, These programmes were funded by Department of Science and Technology, National Science and Technology Entrepreneurship Development Board, New Delhi, Ministry of Human Resource Development, Government of India, New Delhi. The topic of Innovation & creativity has been incorporated into the syllabus of Various Engineering programmes with initiative of our college faculty Prof. N. V. Hargude and others. The activity of innovation & creativity is developed in the students through mini projects, Project Work, Case Study as a regular part of curriculum. The UG and PG students are encouraged & motivated to take live projects from industry in the final year. The students are advised to undertake design, fabrication development projects in place of study projects. Various activities are conducted through departmental student associations like MESA, CESA, EESA, ISF, FACE-IT, Club-Auto, Club-Robo, National Level technical event “NIRMITI” for students, National Conference for faculties to promote innovation, creativity & incubation. Recently more than 100 students have participated in competitions like SAE, BAHA & Go-kart, SAE- TIPHAN at National level with promising performance. In TIPHAN Institute bagged first runner-up prize. The equal numbers of students have participated in various robotic competitions and achieved positions. The activities mentioned are not only open to the entire departments but to outside the college.

Creation of transfer of knowledge wealth is concerned and focuses of the college through activities like, publications of research papers, under graduate, post graduate, and doctoral research, Industrial project work, innovation, consultancy and development activities. The college is motivating faculties to acquire the doctoral degree and by now 27 faculty members have achieved Ph.D. degree and 10 are in progress. The students at under graduate and post graduate level are encouraged to undertake industry consultancy projects, issues, technology development innovative project, agri-based projects as course work. The industrial problems, consultancy projects are also encouraged. Mechanical Engineering, Civil Engineering, Physics.

Department of Civil Engineering is having consultancy job of Rs. Minimum 10 Lakh and 25 Lakhs maximum in a year in various Era like JalyuktShivar, RCC testing, Steel testing, Structure analysis etc.

File Description	Document
Any 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: 43

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
9	6	11	13	4

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

3.3 Research Publications and Awards

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

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document

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

Response: No

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 6.46

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 155

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

Response: 24

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document

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

Response: 2.67

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
110	93	97	86	47

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: 1.48

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
25	49	116	21	30

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:

Through social, ethical, professional and holistic development of the student, the institution aims at development of sensitivity in young generation toward society, social issues, community issue, ethics, human values, professional values, environment awareness, gender disparities, social inequality, rural development & technologies, etc. The ethics and value education is itself taught as a subject at 1st semester level. The institute is having a very vibrant NSS unit which undertakes above mentioned activities. The similar type of social development activities are also undertaken at department level, student forum/association like MESA, CESA, CHESA, ELEANDT CESA, EESA, ISFA, ASHRE, FACE-IT, CAPD circle, Art circle, Dr. APJ kalam foundation etc. professional society student chapter like ISTE Student Chapter, SAE, IEEE Students Chapter, etc.

The different activities like blood donation, Share & Care for Old aged orphanage, Traffic awareness programme, Clean India, gender equality, awareness and development activities in rural areas, etc. Other than the extension activities undertaken by the students through departmental student association, college has very vibrant NSS unit having 100 students from various departments in it. The various activities are undertaken by the students like rural development, health checkup, blood donation, help to needy, poor & old people, tree plantation, environment awareness, village development and awareness of Swaccha Bharat Abhiyan, health awareness, women safety, gender equality, etc, every year. The unit is approved under government scheme. Promotion of health awareness and yoga is regular activity of the college. Regular health awareness programmes are undertaken for faculty and students. UMA activities and UBA activities also cause for social issues.

The institute is undertaking its extension activities in nearby villages. Many activities like medical camp, career awareness, technology awareness and transfer, Swaccha Bharat Abhiyan, skill development and job generation are conducted as Educational Social responsibility by the college with active participation of all faculty members and students. A village Anjani, Karnal, Padmale, Nandre about 12 -40km from Budhgaon and slum nearby college are places where extension activities are undertaken. Skill development and employment generation is done through awareness and training.

The institute is very actively involved with industries associations and industries in and around Sangli-Miraj through interactions and MOU's, Also MOU'S with Govt. COE, PUNE, Walchand College of engineering, Sangli. The various departments have developed active MOU's with various industries, training agencies and Institutes for mutual interaction, exchange and growth. The college has average 14 active MOU's per year. The departments have kept rural technologies, indigenous technology, and low cost automation as focus for their research work.

The activity, project groups are formed in such a way to promote gender and social equality. The students are given exposure to industrial environment for developing professional values & ethics. The group activities promote development of social behaviors and leadership in the students. The institute have dedicated faculty for undertaking guardian teacher scheme, mentor scheme to monitor academic & holistic development of students. Department like Mechanical Engineering has kept technology & machineries for agriculture as their focus for student project work.

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

Response: 0

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

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

File Description

Document

Number of awards for extension activities in last 5 years

[View Document](#)

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: 47

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
8	11	9	10	9

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

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

Response: 0.29

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
10	12	9	6	3

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: 627

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
144	141	118	133	91

File Description	Document
Number of Collaborative activities for research, faculty etc	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: 81

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
11	8	8	13	41

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

The Institute is one of the oldest technical institute established in the year 1983 Catering to the needs of students from rural area. Institute has optimistic approach towards providing adequate facilities which is the Key need of effective teaching-learning process.

The institute has impressive infrastructure to facilitate teaching-learning (Classrooms) Laboratory, Space, Seminar halls, and computer labs. Institute has Taken due care to make the infrastructure as per the standard norms.

The college has adequate number of class rooms and well-equipped laboratories to impart affective teaching-learning process. Each department equipped with their own computing resources as well as departmental libraries to meet the academic needs of the students.

The additional coaching to the students through the measures like practice sessions, remedial classes, extra lectures, and expert lectures are conducted without any hassles.

For effective and optimum study conditions, spacious classrooms are provided with LCD projector. The need of training the students in small groups and academic counseling is well defined by assigning group of students to all the staff members. More and more cabin space for the teacher to function in a non intrusive manner for their academic needs.

The college provided computers to all the departments for the day-to-day usage of students and faculty.

For effective and optimum study conditions supporting facilities like separate hostel facility for boys and girls is available on campus. Institute has good canteen facility, ample parking space. Institute is secured through CCTV's surveillance. Generator backup is provided for uninterrupted power supply. For effective teaching-learning process feedback from stake holders are taken. Subjections are implemented to improve overall academic quality.

Sr. No.	Description	Numbers	Total area (sq.m.)
1	Classrooms	30	2497.21
2	Tutorial room	8	322.28
3	HOD cabin	9	219.06
4	Faculty room	91	1147.7
5	Departmental library	7	252.68
6	Laboratory	84	5745.14
7	Seminar room	7	734.82

8	workshop	1	848.97
9	Drawing Hall	3	691.94

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:

The institute focuses on overall development of the students through co-curricular and extra-curricular activities. Outdoor and indoor sports contribute significantly in grooming students. Qualities like leadership, team spirit, and competitiveness can be inculcated amongst the students through such sports activities.

The institution has a fully competent and qualified Physical Director to train the students to participate in both indoor and outdoor events conducted by the State/University. Gymnasium is equipped with weight lifting set and bench fit arrangement. Separate facilities has been provided for Yoga and Meditation.

Sports Facilities :

- Athletic Track
- Cricket Field
- Volley Ball Court
- Kabaddi Court
- Kho-Kho
- Table Tennis
- Chess
- Carom hall
- Hand ball court
- Foot ball
- Hockey

The institute encourages the students to participate in various colleges, zonal, inter zonal and all India interuniversity sports activities. For physical and mental upkeep Yoga is promoted and practiced in the institute. International Yoga Day is organized in the institute to increase awareness among the students.

Institute has a committee for cultural activities. This committee along with the staff and students of the college organizes annual cultural function.

Institute organizes annual sports, inter college level games. The management always supports the students to attend various zonal games, inter zonal games, state and national level games by allocating

required funds for sports kit and funds traveling and staying arrangements.

Institute organizes Vasantotsav annual cultural event. It comprises events in the form of competitions, workshops and stage performances such as, Dance, Street play, Act, Singing etc. students are also encouraged to participate in various cultural events organized at university level, intra and intercollegiate events.

RESOURCES OF THE GYMNASIUM AND SPORTS FACILITY

- 12 Stage machine.
- 16 Stage machine.
- Double bar - 1
- Walker-2
- Dumbbell rack
- Treadmill – 2
- Massager – 1
- Twister - 2
- Vibrator Machine-1
- Stepper Machine-2
- Weight Lifting set.
- Sports Equipment.

Play Grounds-

- 400 MTR Athletic Track (8 line)
- Volley Ball Ground
- Cricket 5 Wicket (50' x 100')
- Kho-Kho
- Kabaddi
- Hockey
- Foot-Ball
- Jumping Pit (Long & Triple Jump)
- Throwing Sectors (Discus & Shot-put Throw)

Sports Facilities:

SR. No.	Event / Availability of Sports Facility	Total Area Available (in Mtrs)	Capacity	Qty.
1	Athletics Track – 400 mtr. X 8 line (79 M Long)	195 x 95	50	01
2	Cricket Ground – 5 Wicket (50' x 100')	52	32	01
3	Foot Ball Ground	110 x 70	32	01
4	Hockey Field	90 x 50	32	01
5	Volley Ball Court	18 x 9	24	02

6	Kabaddi Court	13 x 10	36	02
7	Kho-Kho Ground	29 x 16	36	01
8	Carom Hall	15ft x 15 ft	12	01
9	Gymnasium Hall 1. 16 Station Gym 2. Table Tanis 3. Gym Office 4. Single & Double Bar	14.25 x 9.85	Up to 100	01

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

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

Response: 97.37

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 37

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

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

Response: 30.08

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
282.75013	17.08351	249.94429	7.04793	40.12549

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:

Name of the ILMS Software	Vidyasagar Library Software
Nature of automation	Partially
Version	1.1
Year of automation	2011-12

The institute has user friendly & fully automated 'Vidyasagar Lib Software' of 1.0.0 version, installed in 2011 as Integrated Library Management System (ILMS). Vidyasagar Lib Software provides powerful information management solutions to enable and to distribute content seamlessly. It is an integrated software package encompassing all aspects of library management. It helps library to give fastest library services to the user by using barcode. Using this software user can generate I-CARDS, print barcodes on any laser printer, spine labels and data on book cards. It takes care of the following activities:

- Book Ordering and serial control made simple.
- Circulation i.e. Issue, Returns, Renewal, Recall, Reservation/ Reservation cancel, overdue report,
- Statics and sending e-mails for transactions.
- Book Accession e-register and Online Public Access Catalogue.
- Search the database using important fields such as accession number, call number, author, title, edition, year, publisher, subject, keywords, availability etc.
- Handles plenty of records more efficiently.
- Simple and fast counter transactions
- Online stock verification support. online stock verification of library resources using Barcode
- Scanner, Data Capturing Unit and generate reports of books such as - missing, lost, issued, binding, transferred condemned, available, etc.
- Efficient circulation management system.
- Sorting / printing large number of reports and can export into Excel file formats.

- Display / printing of records in AACR formats
- Interface to barcode scanners / printers / smart card
- User ID and password for various menus
- Database security, backup and recovery

Library At A Glance (Degree 2017-18)

SR.NO.	PARTICULARS	TOTAL NOS.
01	TOTAL NO. OF BOOKS	55952
02	TOTAL NO. OF TITLES	13941
03	TOTAL NO. OF JOURNALS (NATIONAL)	77
04	TOTAL NO. OF JOURNALS (INTER NATIONAL)	42
05	ON LINE INTERNATIONAL JOURNALS(Science Direct)	275
06	NON TECHNICAL JOURNALS	09
07	NEWS PAPERS	08
08	COST OF BOOKS (TOTAL)	Rs. 19049543.00
09	SUBSCRIPTION FOR JOU.(TOTAL)	Rs.11612935.00

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

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

Institute has number of handbooks for different branches of engineering as well engineering reports (under graduate and post graduate) are available for student reference. Subject wise information like educational videos including NPTEL lectures, course material available on industrial websites, research papers, eBooks and study materials are maintained as knowledge resource. Institute has special collection of competitive exam i.e. GRE, GATE, TOEFL, ILTS, IAS, UPSC, MPSC. Institute has many reference books on engineering & collection of biographies of some famous personalities. It also provides National Digital library of India facility for huge collection of e-learning resources.

sr.no	Name of Book	Publisher	Author	Copies
1	IEE Poceedings- C Generation ,Transmission& Distribution.	IEE	Dr.D.R.Aubrey, Prof.Smith J.R.	vol.136 No.1 to 6
2	IEE Poceedings - C Generation ,Transmission & Distribution.	IEE	DrD.R.Aubrey, Prof.Smith J.R.	vol.137 No 1 to 6
3	IEE Poceedings - C Generation ,Transmission & Distribution.	IEE	DrD.R.Aubrey, Prof.Smith J.R.	vol.1378No 1 to 6

4	IEE Proceeding - D Control Theory & Application	IEE	Prof.N.Munro Prof.Gawthrop P.J.	vol.136 No.1 to 6
5	IEE Proceeding - D Control Theory & Application	IEE	Prof.N.Munro Prof.Gawthrop P.J.	vol.137 No 1 to 6
6	IEE Proceeding - D Control Theory & Application	IEE	Prof.N.Munro Prof.Gawthrop P.J.	vol.138 No 1 to 6
7	IEE Proceeding - E Computer & Digital Techniques	IEE	Prof.E.L.Dagless, Dr.C.R.Jesshope	vol.136 No.1 to 6
8	IEE Proceeding - E Computer & Digital Techniques	IEE	Prof.E.L.Dagless, Dr.C.R.Jesshope	vol.137 No 1 to 6
9	IEE Proceeding - E Computer & Digital Techniques	IEE	Prof.E.L.Dagless, Dr.C.R.Jesshope	vol.138 No 1 to 6
10	IEE Proceeding. - F Radar & Signal Processing	IEE	Prof.P.M.Grant Dr. K.D.Ward	vol.136 No.1 to 6
11	IEE Proceeding - F Radar & Signal Processing	IEE	Prof.P.M.Grant Dr. K.D.Ward	vol.137 No 1 to 6
12	IEE Proceeding - F Radar & Signal Processing	IEE	Prof.P.M.Grant Dr. K.D.Ward	vol.138 No 1 to 6
13	IEE Proceeding - G Circuits Devices & Systems	IEE	Dr.D.G.Haigh,Dr. S.S.Lawson	vol.136 No.1 to 6
14	IEE Proceeding - G Circuits Devices & Systems	IEE	Dr.D.G.Haigh,Dr. S.S.Lawson	vol.137 No 1 to 6
15	IEE Proceeding - G Circuits Devices & Systems	IEE	Dr.D.G.Haigh,Dr. S.S. Lawson	vol.138 No 1 to 6
16	IEE Proceeding - H Microwave Antennas & Propagation	IEE	Prof.J.Helszajn ,Prof.A.D. Olver	vol.136 No.1 to 6
17	IEE Proceeding - H Microwave Antennas & Propagation	IEE	Prof.J.Helszajn ,Prof.A.D. Olver	vol.137 No 1 to 6
18	IEE Proceeding - H Microwave Antennas & Propagation	IEE	Prof.J.Helszajn ,Prof.A.D. Olver	vol.138 No 1 to 6
19	IEE Proceeding - I Communications Speech & Vision	IEE	J.M.Baker, Dr.P.M. Hughes	vol.136 No.1 to 6
20	IEE Proceeding - I Communications Speech & Vision	IEE	J.M.Baker, Dr.P.M. Hughes	vol.137 No 1 to 6

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

4.2.3 Does the institution have the following:

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

5. Databases**A. Any 4 of the above****B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** 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:** 27.03

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
14.69	26.55	25.98	26.7	41.21

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:** 8.03**4.2.6.1 Average number of teachers and students using library per day over last one year****Response:** 250**4.3 IT Infrastructure****4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

To fulfill the norms of AICTE and University, the institute has very strong IT infrastructure. Institute has application software, which are used continuously by the students of various departments.

Application Software such as Matlab , MicrowindKeil, Phyton Chip prog+ IC Programmer,Protius, Xilinx 7.1, 3.5, Active HDL, OrcadScilab, AutoCAD (freeware), Multisim, Comsim, L- Sim, Matlab2011b, VidyaSagar Lib. Software, i-TELL , Orelletcare available at institute level. Software are updated continuously, laboratories are continuously updated with latest version of computers such as i3, i5. Institute has well established language lab to enhance communication skills of student and faculty.

The institute has massive network of **736** computers having 91 Wi-Fi hotspots with extenders provided to cover the wireless range throughout the college to fulfill the academic and research need. All computers in the campus are connected to the internet as it is essential for them to work, also surplus Ethernet ports are provided for laptops or other devices in need of internet connectivity. All the departments / Library / hostel are connected with 200 MBPS Campus wide fiber optic network. Apart from this throughout the campus Wi-Fi facility is also made available, through which faculties and students can access internet 24 x 7.

A separate centralized maintenance team with in-house staff is formed to take care of the IT & related needs of the campus such as Software Development, Hardware & Networking, Website designing & hosting, Email solutions, SMS solutions, etc. The entire campus including Hostels has Wi-Fi connectivity and speed of the internet connectivity is 200 Mbps provided by Gazon Communication India Ltd.

Nature of updation:

- Internet leased line Bandwidth has been upgraded frequently in August 2018.
- College website domain is renewed on 11/04/2018 for next 5 years.

The institute continuously upgrades / replaces the existing computer systems / printers / scanners / projectors, from all the departments / laboratories as per the need of the University syllabus and introduction of new technologies.

New software required for the syllabus, which will be upgraded in future will be procured in due course and software for the smoothly functioning of Outcome Base Education (OBE) system will be procured in

coming academic year.

Wi-Fi Access Points were installed in the following various locations. Also, the Wi-Fi access points are updated constantly during regular intervals as and when required. Details are as per the following:

Sr. No.	Wi-Fi access points Installed Location	Device	Qty
1	All Engineering Departments	D-Link 3200	08
2	Central Library	D-Link 3200	01
3	Boys hostel	Mercusys, Model MV305R	72
4	Girls hostel	TP Link 7210N	09
5	Principal cabin	TP Link 7210N	01
Total			91

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

4.3.2 Student - Computer ratio

Response: 3.99

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: 56.35

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
250.17617	191.25850	180.58417	225.21674	245.36474

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

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

Response:

Institute has appointed full time estate manager to look after Civil works such as Plumbing work, Carpentry work and Housekeeping work. Estate manager is assisted by supporting staff to carry out the maintenance work.

Electric maintenance is carried out by electrical department under the supervision of HOD. Lab assistants from various departments' carry out routine maintenance like cleaning, Lubrication, Repair, and Inspection with the assistance of supporting staff.

Library maintenance is carried out by vidyasagar library management software. Care is taken to maintain

conducive environment in library.

Upkeepment of computers is carried out by computer science department/ IT department under the supervision of concerned HOD.

Maintenance of sports equipment is carried out by khare enterprises and routine maintenance is carried out by college workshop.

Up keeping of classrooms is carried out under the supervision of estate manager.

Type of maintenance	Resource	Remark
Civil maintenance	Through Estate manager.	As per the needs of different departments.
Electrical Maintenance	Under the supervision of HOD electrical.	Maintenance after receiving the complaints
Maintenance of computing facilities	Under the supervision of HOD IT.	Maintenance after receiving the complaints
Maintenance of water supply facility	Under the supervision of Estate manager and permanent plumbing staff.	Maintenance after receiving the complaints
Housekeeping	Under the supervision of Estate manager.	Daily cleaning of corridors, lecture halls, toilets and parking is done.
Playground	Under the supervision of Physical director and estate manager.	Regular maintenance.

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: 71.45

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
2336	2125	1969	1614	1567

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: 13.04

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
499	404	401	264	205

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: 28.87

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
608	537	1369	1355	0

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:** 0

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
0	0	0	0	0

File Description**Document**

Details of the students benefited by VET

[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:** 41.02

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
249	322	203	191	176

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: 2.95

5.2.2.1 Number of outgoing students progressing to higher education

Response: 20

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
3	3	10	6	4

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
3	3	10	6	4

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

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: 21

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	4	5	2	1

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:

Our college created a student council for active participation of students in the academic & administrative bodies. It empowers the students in gaining leadership qualities and execution skills. Student Council improves academic standards and creates a sense of ownership towards the institution. Student council helps in bringing out the talent of students in curricular and extracurricular activities during academic year.

The institute has excellent sports facilities for the students. Students had participated and won prizes in inter collegiate / university / national level games. Range of sports and games available to students are Football, Cricket, Volleyball, Basketball, Kho-Kho, Kabaddi, Handball, Athletics, etc.

The range of cultural activities available for students are VasantUtsav - Annual cultural event, Traditional

day, Mimicry, Singing, Dancing, Photography, Debate, Painting, Rangoli, Mono acting, fashion show etc. The extra-curricular activity includes tree plantation, blood donation, cleanliness drive, cloth donation, book donation to orphans etc

File Description	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: 12

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
11	10	14	10	15

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document
Any additional information	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 main objectives of association are:

- 01.To promote and foster mutually beneficial interaction between Alumni and the Institute.
- 02.To encourage the formation of regional chapters to increase participation of Alumni
- 03.To encourage the Alumni to take abiding interest in the process and development of Institute.
- 04.To arrange and support in placement activities for the students of Institute.

05.To encourage the students of the Institute and members of the Association for research & development work in various fields like engineering, computer Industrialization etc.

06.To mentor the students of the Institute for higher education, development of character and being GOOD citizens.

07.To encourage and guide the students of the Institute on self-employment to become entrepreneurs.

08.To guide students of the Institute on various professional avenues available and support them through various activities such as expert advice, seminars, visit etc.

09.Promote the Industry-Institute interaction to bridge the gap between industry requirements and education offered and enhance students' employability.

10.To help and assist other regional bodies for training programs in entrepreneurship development, with resources available with association.

11.To promote computer and internet literacy among the society.

12.To publish books, periodicals for public interest.

13.To arrange blood donation, eye donation and health awareness Camps.

Sighting the above objectives of Alumni Association our alumni contributes in many ways for the development and betterment of our Institute. Our students and Institute are benefited in various fields such as student placement, training, expert lectures, career guidance sessions, Industrial visits and mentoring. The alumni of Institute is guiding and nurturing our students to become engineering professionals. It is our plan to develop everlasting relations with our alumni which in turn will give rise to mutual benefits.

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:** 2

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	1	1	0	0

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

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 become a leading institute in providing high quality technical and engineering education to the aspirants and serve the industry and society through excellent educational programs, Creativity and Research.

MISSION

- To meet short term and long term engineering manpower needs for social, techno-economical development of region and nation through teaching, research, consultancy and service.
- To contribute advancing of knowledge and wisdom in science and technology for the human welfare
- To cultivate skill, lifestyle and habits of lifelong learning to adopt knowledge based global civilization
- To create highest standards of education with noble values of ethics, morality, integrity and humanity

A great visionary Late Dr. Padmabhooshan Vasantryadada Patil, who nurtured a strong conviction to provide the best of professional education to the society today, has resulted in a strong educational realm. P.V.P.I.T. Institutes, today, boasts of the best infrastructure facilities and application of diverse teaching methodologies. With highly qualified and dedicated faculties, Institute has grown leaps and bounds and will continue to do so looking for both horizontal and vertical growth patterns. The students of this Institute and wards of farmers have passed-out with higher ranking and good results and are placed in higher positions in industries/educational institutions/research organizations in and out of the Country. Institution believes in developing the overall personality of its students in order to create future responsible global citizens.

The Institute has a perspective plan for its development in accordance with its vision. Keeping in mind the previous experiences of all stakeholder suggestions and the development in the field of engineering, the perspective plan has been designed for the next five years by our institute.

These include major objectives such as accreditation by National and International bodies for all branches, permanent affiliation to DBATU University, autonomy of the institute, establishing centre of excellence and foreign collaborations for higher studies and student placement.

Better industry institute relationship through MOUs will enhance the activities of Entrepreneurship Development Cell. The institute will work for establishing and developing incubation centers required help

to prospective entrepreneurs.

Beside better management practices and better leadership, Institute understands that faculty members play a vital role in institutional achievements. As stated earlier through participative management, the teaching and non-teaching faculties are involved in various decision making bodies of the institute such as Governing council (GC), Internal Quality Assurance Cell (IQAC), Local Management Committee (LMC) Academic Monitoring Cell (AMC), Institute Academic Advisory Committee (IAAC) Departmental Academic Advisory Committee (DAAC), Grievance Redressal Committee (GRC), Anti-Ragging Cell, signing MoUs with academics, research and industrial institutions, liasoning with various agencies such as affiliating university, Directorate of Technical Education (DTE), Maharashtra and All India Council for Technical Education (AICTE), New Delhi.

File Description	Document
Any additional information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

The management of Institute believes in participative decision making process and strives to bring excellence by structured organization system with involvement of the entire stakeholder. All stakeholder of the institute are member of statutory bodies.

The Governing Body (GB), College Working Committee (CWC), Institute Academic Advisory committee (IAAC) and Local Managing Committee (LMC) are apex bodies involving representations from the management, faculty, and other stakeholders formulate policies aligned with the institute's vision and mission

Position	Functions
Governing Council	<p>Frame directive principles and policies.</p> <p>Amend and approve policies from time to time</p> <p>Approve budgets</p> <p>Define Vision and Mission</p>
College Working Committee	<p>Look after the overall development of institute</p> <p>Mobilize external resources to strengthen the institute</p> <p>Plan & provide for necessary facilities / equipment for development.</p>

<p>Institute Academic Advisory committee</p>	<p>Instill confidence and devotion in every member of the institute</p> <p>Define Academic organization structure.</p> <p>Suggest periodic monitoring & evaluation of various processes</p> <p>Define academic quality policy</p> <p>Motivation of the employees</p> <p>Approve PO's and PEO's to all departments.</p>	
<p>LMC</p>	<p>To suggest directive principles and policies.</p> <p>To Prepare Annual budget</p> <p>To suggest academic and administrative policies</p> <p>To suggest efficient purchase procedure</p> <p>Motivation Of Employees</p>	

All these bodies conduct regular meetings to review and improve quality in academic and administration. Institute forms various Committees/bodies/cells. The roles and responsibilities of these are properly defined that lead towards the overall development of the institute.

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

6.2 Strategy Development and Deployment

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

Response:

The perspective/strategic plan of institute is prepared every year keeping in mind the overall development of the staff and students. As per the objectives of the institute and the strategic plan, the Academic Planner is prepared at the start of every academic year and implemented to achieve the objectives of outcome based education.

Example: Academic Planner for the curricular and Co-curricular activities

- The Academic Planner is prepared at the institute level which includes the planning of various curricular and co-curricular activities. The Academic planner is notified to all the stake holders' include management, students, staff and parents.
- The academic activities such as start of term and end of term and the schedule for mid/end term tests is notified in the planner. Each department plans their activities accordingly in order achieve the proper coordination between various departments. The schedule of expert lectures, industrial visits and refresher courses is planned and executed.

- Parents meet is conducted as per the plan and interaction is held between the students, staff and parents. The students are also felicitated on this day for their achievements in various fields.
- The institute has fully fledged gymkhana facility and annual sports events are planned and conducted under the supervision of fulltime physical director. Our students participate at University and State Level Competitions and win medals.
- There is also outstanding contribution by students in cultural activities and a state level Vasant Karandak is planned and held every year. Most of our past students are perusing their career in this field. The coordination of most of the programs in the institute is managed by these students.
- The NIRMITI activity is planned and held every year which is organized at state level to show case the talent of our students in various technical events viz paper presentation, project exhibition, robot race, contraption, quiz, debate etc.
- Teacher day, Knowledge Series and Engineers day is conducted every year as per planner (5th September and 12th to 15th September). Eminent personalities in all walks of life are invited and they deliver very inspiring and motivating lectures for the benefit of teaching faculty and non-teaching staff.
- Institute works on a comprehensive perspective/strategic plan to achieve the overall development of the students, staff through the contribution of distinguished Alumni, Industry and Parents.

File Description	Document
Any 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:

- Our Institute is having a well structured College Working Committee (CWC), Governing Council (GC), Local Management Committee (LMC) and Institute Academic Advisory Committee (IAAC).
- The College Working Committee looks after overall development and mobilizes external resources to strengthen the institute. It plans to provide the necessary facilities and equipments and instills confidence. The Governing Council frames the directive principles and policies. It also approves the budget and defines Vision and Mission.
- The Local Management Committee prepares the annual budget, suggests academic and administrative policies and effective purchase procedure. The Institute Advisory committee defines academic organization structure, periodic monitoring and evaluation of its processes, defines Academic Quality Policy and approves the PO's and PEO's of all departments.
- The Organizational structure flowchart is available in the Admin Manual as well as on college website. Decisions made by the Governing Council and LMC are disseminated by Principal through Vice Principal, Deans, PG Coordinators and Head of Department.
- Our institute has a well defined recruitment policy for the teaching faculty and staff. The teaching faculty includes Principal, Professor, Associate Professor, Assistant Professor, Librarian and Director of Physical Education. The staff includes administrative, technical supporting and non teaching staff.
- Grievance procedures are well defined to address the grievances of any individual employee

relating to job satisfaction, work environment, harassment and monitory problem.

- The establishment section is in charge of the performance appraisal process. The promotion of any staff is done based on the performance appraisal and the guidelines from Shivaji University/DBATU.

<https://drive.google.com/open?id=1zf6EROkqmjjhnZQ6A1u2rQ7aE6ca6KEo> (Fig. 6.2.1:Organizational structure)

File Description	Document
Link for 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
Any additional information	View Document

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

Response:

Institute forms various Committees/bodies/cells and their functions are properly defined, considering the overall development of the institute. For effective implementation and improvement of the institute following committees are formed:

1. Special Cell Standing Committee For Welfare of B.C. Candidate
2. Library Committee
3. Gymkhana Committee
4. Grievance Redressal & Coordination (Staff & Student) Committee
5. Internal Quality Assurance Cell
6. Industrial / Educational Tours/ Visits
7. Hostels & Health Care
8. Parent/Teacher Meet/Interaction
9. Anti- Ragging & Students Discipline
10. Cultural Activities, Youth Festival, Art Circle
11. I.S.T.E. Chapter (Staff & Students)
12. Staff Academic / Staff Welfare
13. Training & Placement Cell
14. Alumni Association & Career Vocational & Competitive Exam. Guidance
15. Lead College
16. Teacher's, Engineer's Day & Knowledge Series
17. Academic Monitoring Cell
18. Industry Institute Interaction
19. Nirmiti
20. Abhiyanta
21. N.S.S.
22. N.B.A. Cell
23. Vasantotsav
24. Mentoring
25. VasantKarandak
26. Sexual Harassment Prevention Committee
27. Research & Development
28. Right To Information
29. Indo US Co-Operation In Engineering Education
30. Confederation Of Indian Industries – Indian Women's Network

Example: National Service scheme

The motto of the National Service Scheme is: 'NOT ME BUT YOU'. This reflects the essence of democratic living and upholds the need for selfless service and appreciation of the other person's point of view and also to show consideration for fellow human beings. It underlines that the welfare of an individual is ultimately dependent on the welfare of society on the whole. Therefore, it should be the aim of the NSS to demonstrate this motto in its day-to-day programme.

The symbol of the National Service Scheme based on the 'Rath' wheel of the Konark Sun Temple situated in Orissa. The wheel signifies the progressive cycle of life. It stands for continuity as well as change and implies the continuous striving of NSS for social transformation and upliftment.

Aims and objectives of NSS

- Understand the Community in which they work.
- Understand themselves in relation to their Community.
- Identify the needs & problems of the Community and involve them in problem solving process.
- Develop among them a sense of social and civic responsibility.
- Utilize their knowledge their finding practical solutions to individual & community problems.
- Develop competence required for group living and sharing of responsibilities.
- Gain skill in mobilizing community participation.
- Acquire leadership qualities and democratic attitude.
- Develop capacity to meet emergencies and natural disaster.
- Practice national integration and society harmony.
- The educational goal of the NSS implies that besides gaining understanding of concepts like community, social structure, Power Conflict etc. occurring in real life situations, Students should acquire competence in the field of program planning.
- The service goal of NSS also calls educational approach in solving community problems. Its purpose is to help the community to recognize its needs and to assist in the mobilization of resources to meet these needs.

As per the guidelines given by Shivaji University Kolhapur a resolution is passed in the Governing Body to form "National Service Scheme" cell at our Institute. Institute always feels responsible towards society.

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:

List of Welfare Schemes provided by institute:

1. **Provident Fund Facility for Staff** - All eligible staff members avail the facility of Employers Provident Fund Scheme (EPF).
2. **Gratuity Fund** - Institute is providing Gratuity to regular employee which is covered by an agreement made on 2nd May 2006 with LIC Satara with a policy number, **685405**.
3. **Group Insurance for Staff** - Group Personal Accident Policy is provided to all employees. It is covered under the Shivaji University policy.
4. **College uniform to non-teaching staff** - Institute provided free of cost college uniform to peons, lab attendant and sweepers.
5. **Accommodation facility for teaching and non-teaching staff**- Institute provides accommodation facility to teaching and non-teaching staff as per need.
6. **Bus facility for teaching and non-teaching staff** - Institute provides bus facility to teaching and non-teaching staff as per need through student bus facility.
7. **Financial aids for workshop/ conference** - Institute provides financial support for Academic development of faculty members to attend workshop or conference.

8. **Welfare Funds through employee's credit society** - Institute is having employee's credit society and it provides welfare funds to faculty members.
9. **Awards** - Every year meritorious Daughter/Son of faculty members is awarded by employee's credit society.
10. **Medical Facility** - Doctor is appointed for health check up of faculty members and staff. Free eye checks up camps are arranged in the institution. Yoga training is arranged for interested faculty members.

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: 16.31

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
21	29	50	17	17

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: 4.2

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	6	6	3	1

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: 85.49

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
173	172	104	149	100

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:

Institute has performance appraisal system for both teaching and non-teaching staff.

Performance appraisal for **teaching staff** is divided into three categories.

Category I: Teaching, learning and evaluation related activities - which includes,

1. Lectures, Seminars, tutorials, practical, contact hours undertaken taken as percentage of lectures allocated
2. Lectures or other teaching duties in excess of UGC norms

3. Preparation & Imparting of knowledge /instruction as per curriculum; syllabus enrichment by providing the additional resources to students.
4. Use of participatory & innovative teaching- learning methodologies; updating of subject content, course improvement
5. Examination duties.

Category II: Co-curricular, extension, professional development related activities - which includes'

1. Institutional Co-curricular activities for students, Positions held/ Leadership role played In organization linked with Extension Work and National service Scheme,
2. Students and Staff Related Socio-Cultural and Sports Programmes, Community work, Contribution to Corporate life in Universities/ colleges, Institutional Governance responsibilities,
3. Participation in committees concerned with any aspect of departmental or institutional management, Responsibility for or participation in committee for Students Welfare, Counseling and Discipline,
4. Organization of Conference/Training, Membership in Profession related committees at state and national level, Participation in subject associations, conferences, seminars, workshop etc,
5. Participation in short term training courses, Membership/participation in State / Central Bodies / Committees on education, Research and National Development, Publication of articles in newspapers, magazines or other publications, Radio talks, Television Programs.

Category III: Research, publications and academic contributions - which includes

1. Published Papers in referred, recognized, indexed and reputed Journals, Full Papers published in Conference Proceedings,
2. Other Research Publications like Books and chapters in books,
3. Research Projects
4. Research Guidance

Performance appraisal for **non-teaching staff** includes following criteria

1. Department related work
2. Qualification
3. Contribution in department level work
4. Contribution in college level work
5. Contribution in university level work and exam work
6. Working ability
7. Opinion of students, staff and head of department
8. Special contribution if any

Evaluation Process of self appraisal:

https://drive.google.com/open?id=1kh57xstV4_oJHxaahInS903nkugoEES5

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:**

The institute has a mechanism for external company audit. An external financial audit is carried out on an elaborate way on yearly basis in two phases. The institutional accounts are audited regularly by external auditor.

External auditor verifies all the receipts, payment, cashbooks, bank account conciliation, vouchers, dead stocks, purchase registers, expense bill of financial year. So far there have been no major findings / objections. Minor errors or omissions and commissions when pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future.

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: 19.53

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
5.79	2.12	3.56	5.44	2.62

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 institute is self-financed organization. The financial transactions are carried out from the income generated by the college during particular finance year.

The sources of income are **tuition fee** collected, **development fee** received from students, **testing and consultancy**. The tuition fee and development fee are approved by “Shikshan Shulk Sumiti”, state level statutory body formed by government of Maharashtra. The approved fee for corresponding year is notified on “Shikshan Shulk Sumiti” Website. The institute receives the amount of fee from students as notified on the website only.

The total expenditures are divided into eight major heads: Establishment, direct, current library, student activities, PG expenses, miscellaneous and development.

1. **Establishment head:** Broadly, it covers all the expenses related with salaries, provident fund, gratuity, faculty development etc.
2. **Direct expenses:** The entire expenses essential for the operation of the institute are included. Rent, Electric bills, petrol, diesel, stationary, Printing, generator etc.
3. **Current expenses:** All recurring expenses of departments, industry –institute interaction, R & D expenses etc.
4. **Library Budget:** expenditures for subscription of e-journals, print journals, new book purchase etc.
5. **Student activities:** All the expenditure of students related activities such as annual social gathering, annual magazine, educational tour, National level competition. Prizes to the student exhibition etc.
6. **PG expenses:** The expenditures incurred for PG courses Remuneration, Project
7. **Miscellaneous:** Security, hospitality, sanitary, Garden maintenance, medical expenses etc.
8. **Development:** all the capital expenditures for up gradation of laboratory setups.

Before commencement of academic year, budget is prepared with following methodology and philosophy.

Every year budget is prepared during the month of July/ August. For the computation of income side the sanctioned strength is considered in each class and the corresponding fee is approved by Shikshan Shulk Sumiti. The admissible candidates of second year (Lateral Entry) are included in the student strength. Shikshan Shulk Sumiti also notifies the development fee. Accordingly, the development fee amount is also worked out separately.

For expenditure figures of each head, the last year actual expenditures is taken into account and a fixed percentage is enhanced or with any preplanned activity the expenditure figure is allocated.

Salary expenditure is major component under the establishment head. Its computation is made on the basis of previous figures and new appointment. The vacant posts are included in computation. The gap between vacant post and the number of appointment is bridged by appointing adhoc faculties on consolidate salary as per government of Maharashtra rule and regulations.

For hike in DA during the year separate provision is made foe DA hike. The other expenditures are computed by feedback from preceding year audited figures and inflation rate.

The budget is placed before the Governing council, Local Management committee and trustee members for approval. The development fee received during the year is distributed among the all department on the basis of priority and student strength. The budget is utilized for capital expenditure for asset generation in each department.

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:

The institution has established an IQAC for the academic excellence in July 2013. For this purpose institute has its own Academic Monitoring Committee who guides all the teachers about their roles and responsibilities, IQAC focuses on the continuous improvement of the continuous examination system. After monitoring the progress of the students, the management introduced a re-test procedure for some students, thus given another chance to improve their performance. Institute has adopted some of the best practices which have helped to monitor and report all the activities to promote transparency and student concentric approach in the institute.

Implementation of online feedback

The institute has developed feedback system to ensure and improve the quality of teaching learning process. Feedback is collected from students, alumni, employs and parents. Following parameters are considered.

1. Knowledge of the subject
2. Ability to explain
3. Planning and preparation towards the lecture
4. Use of teaching aids
5. Punctuality in academic work
6. Opportunity for question and discussion

7. Use of examples to clarify the concepts
8. Stimulated thinking
9. Fair and impartial towards students
10. Overall rating of the teacher

On the basis of student feedback rating of the teacher for individual subject is observed and advice is given if required.

Teacher Feedback Rating

40-50 = Needs more improvement

50-60 = need improvement

60-70 = Satisfactory

70-80 = Good

80-90 = Very good

Above 90 = Excellent

The feedback is taken once in the semester to assure the satisfaction of students and to ensure the quality delivery by the teacher in the stipulated time factor.

Mentoring System

This System ensures performance and overall development of students and communicated same to the parents of students.

Each faculty from respective branch has been assigned 20-25 students. Counseling sheets are maintained by faculty, which involves details of students such as Date of Birth, Blood Group, Mail – ID, Parents information, academic information, his/her involvement in different activities. At least twice in each semester interaction with the concerned batch is done by respective mentor. Through interaction their difficulties from department, hostel and amenities are known. The suggestions and difficulties from the interaction are conveyed to higher authorities on which corrective actions are taken. Personal difficulties during the interaction are also shared by the students. The mentoring batch allotted is continued till the student completes his/her graduation.

Professional guidance is provided by arranging lectures of eminent personalities from academic, Industry & Social spheres.

Academic Monitoring Committee (AMC):

AMC is formed for smooth academic conduction. AMC monitors the lectures and practical on regular basis. Each department is assigned their staff representative in the academic monitoring committee. Every week monitoring report must be submitted towards coordinator of monitoring committee.

As per academic monitoring report, corrective action / measure has to be taken against concern faculty by a concern HOD and accordingly to be informed to the office. Faculties must compensate the missed lectures within 15 days and must be informed prior to concern academic committee representative.

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:

The integrated framework for quality assurance of academic and administrative activities is displayed in the following IQAC structure.

https://drive.google.com/open?id=1_82wKvyNmiLQhono0XKP4XMn3aSvdUK8

The teachings learning processes is continuously monitored and review by the HOD and reported to principal and management. Apart from the regular lectures students are given opportunities to attend the guest lecturers from various industrial experts. The content of this type of lectures are beyond the syllabus. The lectures help to students to know the industrial requirements and the necessary skills. The interaction with industrial persons helps the management in identifying the necessary soft skills development required for the students.

Training and Placement through experts is introduced by the management with a view to help the students for better placement. Guest lectures on content beyond the syllabus and soft skills introduced by the management are the outcomes of IQAC which are well supported by the management.

- Videos courses and NPTEL online courses ,
- NPTEL : National Programme On Technology Enhanced Learning

The management and IQAC adopted some regular procedures for enhancing the teaching learning process. As per the university curriculum, faculty members prepare the lesson plan which written in the academic diary. Students will be assessed by unit test and midterm test accordingly and internal marks will be given to the students. Monthly review of students attendance are taken and reported defaulter students to parents. Remedial improvement classes are weaker students.

The institute maintains record of 'Performance Based Appraisal System' (PBAS) forms for individual faculty. Administrative, academic, research and other responsibilities carried out during the academic year are recorded in PBAS form. PBAS score is considered for annual increment.

OUTCOMES:

- 1.The academic quality in the institute is improved.
- 2.Faculty performance is improved in teaching learning quality.
- 3.Performance of students improved through students mentoring

NPTEL Lectures and Video Lectures

NPTEL Lectures and Video Lectures are available in Central Library and accessible to all classroom through the Local Link “\\192.168.231.21”

Department of E & TC Engineering

Number of teachers using ICT Resources	Number of teachers (LMS, e-roll)	Number of ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used	
(2013-2014)	21	21	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs	3	1	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs
(2014-2015)	24	24	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs	3	1	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs
(2015-2016)	28	28	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs	3	1	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs
(2016-2017)	24	24	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs	3	1	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs
(2017-2018)	20	20	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs	3	1	NPTEL Lectures, Internet, Webinars, E-Journals, E-Books, PPTs

Content beyond Syllabus (Guest Lectures Organized)

Sr. No	Name of Resource Person	Topic	Date of Lecture	Class
1	Dr. G. R. Munavalli (WCE Sangli)	Analysis of water distribution system using software	30/09/2016	T.E. (A)
2	Dr. K. S. Gumaste (WCE Sangli)	Design of Earthquake resistant machinery building	30/09/2016	B.E. (A)
3	Mr. V. D. Salkar (WCE Sangli)	Valuation of real properties	07/10/2016	B.E. (A)
4		Advanced Civil Engineering	09/01/2017	B.E.(A)

	Mr.V.B.Patil	Training cum Competition		
5	Mr.. P. K. Joshi	Limit State Method	28/09/2015	T.E.(A)
6	Mr. M. V. Gosavi	Valuation	09/10/2015	B.E.(B)
7	Mr. H. D. Tamhankar	Electrical Safety	17/10/2015	T.E.(A)

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: 4.4

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
6	6	6	3	1

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: A. Any 4 of the above

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

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:

1. Academic improvement:

Particulars	2013-14	2014-15	2015-16	2016-17	2017-18
Evaluations Reform	Midterm & End term unit Test University Examination	Midterm & End term unit Test University Examination	Internal oral, Midterm & End term unit Test University Examination	Internal oral & Practical Examination Midterm unit Test University Examination	Internal oral & Practical Examination Midterm unit Test University Examination
Teaching Learning Approach	Traditional Approach	Student centric approach	Student centric approach	Student centric approach	Student centric approach
Teaching Learning Methodology	Chalk and talk & OHP	Chalk and talk & LCD Projector	Chalk and talk & LCD Projector, use of NPTEL Video.	Chalk and talk & LCD Projector, use of NPTEL Video, Webinars	Chalk and talk & LCD Projector, use of NPTEL Video, Webinars
Learning Support	Use of NPTEL Video, Expert lectures.	Use of NPTEL Video, Mentoring system, Expert lectures	Use of NPTEL Video, Mentoring system, Expert lectures	Use of NPTEL Video, Mentoring system, Expert lectures	Use of NPTEL Video, Mentoring system, Expert lectures
Teacher student contact hours	As per the norms of University	Additional Contact hours in time table	Additional Contact hours in time table	Additional Contact hours in time table	Additional Contact hours in time table

Particulars	2013-14	2014-15	2015-16	2016-17	2017-18
Faculty	University	University	University	University	University
Performance	PBAS	PBAS	PBAS	PBAS	PBAS
Academic monitoring	Student Feedback	Student Feedback	Student Feedback	AMC	AMC
Governance	Traditional	E-Governance	E-Governance	E-Governance	E-Governance
Infrastructural improvement	20 Mbps Bandwidth	155 Mbps Bandwidth	200 Mbps Bandwidth	200 Mbps Bandwidth	200 Mbps Bandwidth
File Description	Document				
Any additional information	View Document				

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

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

Response: 11

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
2	3	2	3	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:

Gender Sensitivity

One of the objectives of this institution is to promote education that would be sensitive to the needs of the various sections of society with special emphasis on gender equality and gender sensitivity. Students of both the genders are given equal opportunities to grow and develop into able, responsible citizens of the future. Institute makes efforts to maintain gender balance among the student and faculty members. Similarly, the numbers of women in the administrative and housekeeping departments are high. The institution has installed closed circuit (CC) cameras to monitor the security and safety of the girl students and women teaching and non-teaching faculties. Institute is also equipped with sufficient number of rooms and well adequate facilities for ladies hostel. The ladies hostel within campus is placed in a peaceful area where a 24 hr security service is provided at hostel's gate of entrance. From the security point there is necessity of performing required procedure in the register provided at the gate prior to leaving the campus, such as submitting the gate pass, entry of going out and coming in the Institution campus.

The institute has formed a Sexual Harassment Prevention (SHP) Committee for sensitizing both women

staff and girl students. It plays a proactive role in sensitizing young minds towards gender issues by involving them in various activities. The SHP committee in collaboration with other departmental student organisations manage events like lectures on sensitive and critical gender issues like equality of sexes, women safety, wellness and health, and self-defense for girls etc. The activities are planned, organized, and executed by girl students representing all the departments and with the guidance of the faculty members. Lectures on women safety are conducted and every year there is a huge celebration of women's day and inspiring women personalities are invited to share their life experiences.

Our on-site counseling system via SHP committee provides support to the girls students and enables them to understand and resolve their problems. The institute also has a big common room and outdoor facility for the recreation of students separately for boys and girls, where they can stay engaged in different sports activities such as volley ball, kabaddi, and kho-kho.

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: 180

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: 14.71

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

Response: 10

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 68

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

7.1.5 Waste Management steps including:

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

Response:

The total solid waste collected in the campus approximately 25 kg/day on an average, from tree droppings, cups, paper etc. Displays of signboard and posters are done for the creation of awareness in boys and ladies hostels and campus etc. The waste is segregated at source by providing separate dustbins for recycle, bio-degradable and plastic waste. Single sided used papers are reused for writing and printing in all departments. Less plastic waste (average 0.1kg/day) is generated by few departments, office, etc. It is collected and given to the vendor on a regular basis. Metal and wooden waste is stored and given to authorized scrap agents for further processing. Glass bottles are reused in the laboratories. The food waste is converted into biogas and is again used for the kitchen. Sanitary napkins are disposed of using incineration process.

1. Solid waste management:

The estimated generation of solid waste in campus is about 15 to 20kg/day which is collected by sweeper and workers from various departments, canteen and garden. Two aerobic composting pits of size 3 feet x 2 feet x 2 feet are provided to compost both waste. Minimum 30-45 days are required to complete one cycle of composting. Castings generated in terms of manure are utilized as an organic fertilizer for gardening.

2. Liquid waste management:

The plumbing wastewater collected from various places like, wash basin, toilet, water cooler, kitchen basin, etc. is conveyed to 3m x 2m x 1m size septic tank for treatment. Cleaning of septic tank is done regularly by municipal sludge collecting vehicle. Hazardous chemicals are kept separately in the laboratory away from the reach of students. Lab in-charge and lab-assistant takes care of the chemicals and safety norms in the laboratory are strictly followed. Students are made aware of the hazardous chemicals and safety aspects when they are given instructions before utilizing the chemicals. The chemicals used in the experiments are diluted and after usage the chemical waste gets mixed with routine waste water. Around 250 L of chemical waste is produced on yearly basis and is sent to an effluent treatment plant for further processing.

3. E-Waste management:

Use of personal mobile phones, memory cards etc. are prohibited in the campus. The different types of e-waste generated in the institute like damaged CDs, CPUs, hard disk drives, monitors, keyboards, cables, cartridges, etc. from labs is properly collected and wherever possible, is reused and donated. Non-working computers, monitors, and printers are discarded and scrapped on a systematic basis. Some parts useful for other systems are kept aside for future use. Students are also imparted awareness and education about E-Waste.

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Ground water source from open ground well and tube wells, are the two major sources of water to fulfill the great demand of water in the institute. Water is used for drinking purposes, canteen, hostels, toilets, laboratory, and gardening. On an average, the total use of water in the institution is around 1,25,000 L/day on an average, which includes 20,000 L/day for drinking purpose and 1,00,000 L/day for domestic, gardening and for different laboratories. The institute has implemented rainwater harvesting (RWH) within its campus for storing and reuse and it has reduced its dependence on water tankers. The drinking part of water supply is treated in RO plant of capacity of 2,000 L/h. Also to account conservation and preservation of natural resource, drip and sprinkler irrigation system is used for gardening to make its use with optimum.

In institute premises, to achieve rain water harvesting (RWH) the pipes are laid down from the roof of few buildings to percolate and recharge the ground water sources. After recharge, rise in ground water table increases the water level in both types of wells. Similarly in the chemistry department the roof water is collected in a 1,000 L storage tank and is used as a distilled water source for laboratory purpose. Displays of signboard and posters are done for the creation of RWH awareness in Hostels and campus.

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:

The institute is located in a rural environment that is near to pollution free and is surrounded with greenery and approximately 25 types of trees. Gardens and grass lawns are developed within the campus premises and are monitored and maintained properly. The students and staff members from the institute are encouraged to take care of maintaining the campus clean and also to plant more trees.

Tree plantation programs, helps in encouraging eco-friendly environment, which provides pure oxygen within the institute and awareness among the villagers. Tree plantation is carried out during monsoon period every year to make the campus as green as. A large number of tree plantations were done by a team of teaching and nonteaching staff and N.S.S Cell in the campus to make it greener.

Students residing near the campus use bicycles or walk to the Institution. The institute also provides bus facilities to the students and staffs with an aim to avoid the use of individual vehicles. Initiatives are taken to sensitize students and staff members in utilizing the public transport system in order to reduce the carbon emission. General information is communicated to stakeholders through social media. The institute

actively promotes an idea of vehicle pooling to both staff and students.

The illumination and ventilation in classrooms are adequate considering natural light and air velocity present. Tobacco products are strictly banned inside the campus.

In addition to trees, bushes, grass and lawns, various medicinal plants and herbs as listed in table below are also planted and maintained in the Institute.

Sr. No.	Local Name of Plant	Scientific Name of Plant
01	Nag keshar	Mesuaferrea
02	Rakta chandan	Pterocarpussantalinus
03	Saptarangi	Salacia reticulate
04	Beheda	Terminaliabelerica
05	Brahmi	Bacopamonniera
06	Aloe vera	Aloe vera
07	Neem	Azadirachtaindica
08	Tulsi	Ocimumtenuiflorum
09	Amla	Emblicaofficinalis
10	Satavari	AspargusRacemocus
11	Periwinkle	Vincearasea
12	Bael/Bilva	Aeglemarmelous
13	Ashok	SarcaAsoca
14	Banyan Tree	Ficusbenghalensis
15	Adulsa	Justiciaadhotoda
16	Jamun	Justiciaadhotoda
17	Nilgiri	Eucalyptus globulus
18	Chapha/Champa	Plumeriarubra

19	Hibiscus	Hibiscus rosa-sinensis
20	Lemon Grass	Cymbopogancitratus
21	Amla	Cymbopogancitratus

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

Response: 2.98

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
39.94	6.39	6.97	5.43	5.88

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

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

Response: 10

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
2	4	1	2	1

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: 12

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
5	2	2	2	1

File Description	Document
Any additional information	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including

Vice Chancellor / Director / Principal / Officials and support staff**Response:** Yes

File Description	Document
Any additional information	View Document

7.1.13 Display of core values in the institution and on its website**Response:** Yes

File Description	Document
Any additional information	View Document

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

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

7.1.15 The institution offers a course on Human Values and professional ethics**Response:** Yes

File Description	Document
Any additional information	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: 8

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
2	2	1	1	2

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:

Engineering students and staff members from Institute are very proud of India's rich and varied heritage. They are striving to make India even a better place than that of today. In the remembrance of the great Indian personalities who fought for our nations freedom the institution celebrates; Death and Birth anniversaries of those great personalities with devotion.

The institution celebrates days of national importance to recall the events or contribution of our leaders in building the nation. Thoughts of ancient and modern Indian personalities are sowed into the young minds through the programs conducted on these days. On yearly basis Teachers Day and Engineers Day both are celebrated on September 5th & 15th respectively, in recognizing the contributions and achievements of Teachers and Engineers.

Also Dr. Padmabhooshan Vasantryodada Patil Jayanti is celebrated in their remembrance of the birth anniversary of the freedom fighter of the Nation. He is also a founder of our institute and he has taken initiative for beginning non-aided technical institute in Maharashtra State in 1983. On this occasion students and staff members are involved in cleaning their work space inside the institute as well as around the institute A youth summit was also organized in the institute in remembrance of Dr. APJ Abdul Kalam to foster and encourage innovation in the young minds.

In the remembrance of the Father of Nation and to promote one of his quality in action, a massive cleaning

activity was organised by faculties and students through Shramadaan and Swacha Bharat Abhiyan on the occasion of Mahatma Gandhi and Lalbahaddur Shastri Jayanthi.

In addition to the celebration of national important days and birth and death anniversaries of great Indian personalities, national festivals such as Ganesh Chaturthi, Khande Navami Diwali are also celebrated with devotion and holidays are observed during Eid, Gurunanak Jayanthi, Buddha Pournima, Mahaveer Jayanthi and Christmas, to respect the views on the festivals celebrated by the minority class of citizens.

File Description	Document
Any additional information	View Document

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

Response:

The institution maintains transparency in its financial, academic, administrative, and auxiliary functions in a very clean manner. The institute carries ethical and responsible conduct of act, from its financial functions, through its academic and personnel policies, to its varied auxiliary functions.

Akin, there is formed the Governing Council Committee, and the Local Management Committee. The members for these committees are Honorable chairman of the institute, Principal, Renown person from the society such as industrialist, members of working committee of Vasantdada Patil Shetakari Sahakari Sakhar Karkhana, Sangli Renown alumni, Teaching and non- teaching staff from the institute. Working of the institute (financial, academic, administrative and auxiliary functions) is governed by taking into account the opinion of committees and rules and regulations for smooth and effective working of the institute.

The Institutional mechanism for monitoring the effective and efficient use of financial resources is the Financial Committee consisting of Trustees. The Committee is assisted by the experts to finalize matters relating to fee structure and the budget provisions of the Institution. Actual day-to-day financial transactions are tracked by the Principal, Trustee, Manager (for approvals and the Accounts Officers (for Cross Verification and accounting). All financial reports and documents are completed with honesty, and the institution presents timely and accurate information to the Statutory authorities and Stakeholders. The institution has appointed external auditors, who regularly audit the accounts.

The financial budget of each financial year is prepared and its sanction is taken before implementation by respective committee. Purchase is done by maintaining proper procedure such as taking requirement from Laboratory or subject in-charge, head of department, taking minimum three quotations from companies or firms related to that subject, preparing comparative. Taking meeting of representative of companies or firms and doing discussion order placed. Order is placed by meeting and discussion of principal, head of department, and respective committee. At the time of finalizing order economy, quality, compatibility, time of delivery etc, are taken into account. Payment is made by cheque after receiving the ordered quantum and checked by respective department.

Academic work is done by principal through head of departments of all the departments by taking into account opinion of all the heads of department for smooth and effective working of the institute by considering rules and regulations. At the time of preparing time table in the department work experience, specialization etc. are considered.

Administrative work is done by the principal and registrar of the institute by observing rules and regulations impartially for effective and smooth working by taking into account opinion of respective committees. Working of Examinations and other important works are performed confidentially, smoothly by respective person or committee by observing rules and regulations.

Auxiliary functions are conducted in a transparent way. For this purpose, decisions are taken in staff council meetings. All circulars regarding, students, teaching staff & non teaching staff are circulated, read in all the classes & displayed on the notice boards. Unique student id's are given to each student and official communication are done through the same.

File Description	Document
Any additional information	View Document

7.2 Best Practices

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

Response:

7.2.1.1 TITLE: AGRICULTURE BASED PROJECT WORK

7.2.1.2 OBJECTIVES OF THE PRACTICE: Institute focuses on agriculture based project work for final year students where, the objective of such practice is fourfold. 1) To reduce manual work in agriculture, 2) to increase interaction between farmers and faculties to solve the actual problem, 3) to design and manufacture agriculture equipment's at low cost, and 4) to reduce cycle time of various agriculture operations.

7.2.1.3 THE CONTEXT: The recent era in agriculture is development needs equipment's that will give benefits to farmers at low cost. The institute is committed by its vision to serve society through design and manufacturing of agriculture based equipment's.

7.2.1.4 THE PRACTICE: The institute is situated in rural area and also 70 % students of institute belong to farmer families. So student of institute are in contact with farming problems and different practical issue in farming. Also farmers help is taken for defining actual problem. So project work is based on actual farming issues which will be helpful for farmers after problem. Sangli district has distinct climate for different tehsils. The main agriculture products are turmeric, grapes, sugarcane, corn, soya bean etc. So majority of project work is carried out for improvement of operations for this crops and fruits.

7.2.1.5 EVIDENCE OF SUCCESS: More than 50 academic projects based on real-time challenges faced by agricultural and food related personnel were allotted to final year undergraduate and post graduate

students. Near about 25%, of the conducted projects, got funds/sponsorship worth 2 lakhs from private owners who industries belong from agriculture and food sector.

7.2.1.6 PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Time constraint for completion of the activity due to overlap of other activities.

7.2.2.1 TITLE: STUDENTS INFORMATION MANUAL:

7.2.2.2 OBJECTIVES OF THE PRACTICE: One of the institutes quality policy is to give every possible facility to student, faculties and staff so that they can deliver the best and create the highest standards in education. Therefore, A booklet called the “Students Information Manual” (SIM) was developed in 2013 to enhance the quality policy and for the benefit of students and teaching faculties.

7.2.2.3 THE CONTEXT: The SIM comes in a printed booklet form and provides all possible information to maximize the learning quality of the student. Different booklets are printed in each department and in semester-wise manner. Inside the booklet the information a student and teacher can find, will be about, the students role and the departmental regulations, the academic courses and the course learning objectives and outcomes, the classroom and laboratory instructions, etc. In addition to such information, it also includes practical plans for achieving the learning objectives in timely manner. For example it consist of the departments academic Planner, the syllabus structure and the course details, with simplified teaching plans on to be conducted lectures and laboratory experiments. Templates of self assessment rubrics, are also included in the booklet, where, students can self assess their courses, industrial training reports, term projects and term-work. Finally The SIM also includes a page where and when possible the student can record information on activities such as counseling, co/extra curricular, and leaves.

7.2.2.4 THE PRACTICE: Different booklets are printed in each departments in semester-wise manner. Each class teacher presents the booklet to the class students during the first class of the new semester, at free of cost. The booklets are also given to the teaching faculties so they can refer to it and plan their teaching activities in accordance to the plan specified in the booklet. The HOD with concerned staff makes minor revisions in the booklet contents on yearly basis and a major revision is done when the change of syllabus cycles occurs.

7.2.2.5 EVIDENCE OF SUCCESS: Since its introduction in 2013, up to 100% completion of syllabus in timely manner has been observed in majority of cases. Also an increased trend in percentage of passing and course excellence has been observed.

7.2.2.6 PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Matching the dates for conducted lectures over the planned ones is very challenging to achieve.

File Description	Document
Any additional information	View Document

7.3 Institutional Distinctiveness

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

Response:

VSSSK Sabhasad Pallya Shikshan Shulk Soulat:

Thrust: Padmabhooshan Dr. Vasanthaodada Patil was a man of great vision and foresight. In 1983, as the chief minister of Maharashtra, he had proclaimed new strategies for facilitating higher education and new technologies at grassroots level of rural and educational backward area of the state. The implementation of which was executed as a new Engineering College and Polytechniques. Under his esteemed guidance Shetkari Shikshan Mandal (SSM) Sangli has been established in Sep 1983. The SSM opened a new era as a pioneer institute, to fulfill his dream of rural technocrats by starting “Padmabhooshan Vasanthaodada Patil Institute of Technology (P.V.P.I.T).”

Vision: The chief vision of P.V.P.I.T. is to be the forefront of the education to satisfy the local, national, and global needs, and to meet short term and long term engineering man power needs for social techno-economical development of the region and the nation, through teaching, research, consultancy and services.

Priority: PVPIT being located in a rural place called Budhgaon has majority of aspirants who belong from near-by villages and many of them are from farmer families. Therefore, to contribute in advancing of knowledge and wisdom in science and technology for human welfare a tuition fee concession is provided for the UG and PG students who’s parents are shareholders for Dr. P. V. P. Shetkari Sahakari Sakhar Karkhana (SSSK), Sangli. The concession scheme is called VSSSK Sabhasad Pallya Shikshan Shulk Soulat and a concession of about 25% (on tuition fee basis) is provided for qualifying UG and PG students. In previous five years a total of INR 3,50,98,783 was allotted to 1,773 qualifying UG and PG students by Dr. PVPSSSK. The allotment of tuition fee concession given to UG and PG students in the last five years is show in table tabel attached:

File Description	Document
Any additional information	View Document

5. CONCLUSION

Additional Information :

The institute is located in rural area hence almost 70% students are from rural background. The institute takes sincere efforts to groom the students by giving them enough exposure to industry practices, aptitude & soft skills training, add on courses through workshops. Institute regularly conducts Entrepreneurship Awareness Camps in association with EDI Ahemadabad. Institute has signed MOU with Walchand College of Engineering under AICTE Margdarshan scheme. Institute is motivating students to participate in national level competitions by providing financial support. Our Mechanical Engineering students secured second position at national level competition organised by John Deere. Students got the second prize for best design of "Self propelled onion harvester" and first prize for low cost design.

The students of our institute are always securing University merit scholarships in various branches of engineering. Five programmes were NBA accredited out of which three programmes viz, Chemical, E&TC and Electronics Engineering are still having accreditation status.

Concluding Remarks :

This institute has glorious past records wherein it has developed many entrepreneurs, scientists, leaders, engineers those who have contributed for national development. Many alumni are working at top posts in government and private organizations all over the world. The institute helps the poor and deprived to complete engineering education thus contributing to societal development.