



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH

GAT NO 720 1 2 PUNE NAGAR ROAD WAGHOLI TALUKA HAVELI DISTRICT

PUNE 412207

412207

www.jspmbsiotr.edu.in

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

JSPM's Bhivarabai Sawant Institute of Technology and Research (BSIOTR) is approved by the All India Council for Technical Education (AICTE) and Directorate of Technical Education (DTE) Government of Maharashtra and Affiliated to Savitribai Phule Pune University (SPPU), Maharashtra State. The institute is a self-financed private organization established in the year 2009. It is located at GAT No.720/1&2, Pune-Nagar road, Wagholi, Pune and its geographical location is latitude 18.58614 and longitude 74.003956. The institute is offering full-time five undergraduate courses and two post-graduate courses in an engineering discipline. Eleven batches of students have graduated from the institute. The institution is committed to imparting quality technical education to achieve its vision and mission.

Vision

Vision

Satisfy the aspirations of the youth force, who want to lead the nation towards prosperity through techno-economic development.

Mission

Mission

To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship for all aspiring students, which will prepare them to face global challenges maintaining high ethical and moral standards

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Institutional Strength

1. Prepared to implement NEP-2020
2. Teaching Faculty upskilling policy
3. Student-Centric ICT enabled Teaching-learning
4. Dedicated faculty members.
5. Structured Mentoring System
6. Extensive Use of modern teaching tools and Resources.

Institutional Weakness

Institutional Weakness

1. Liaoning with research organization
2. MOUs with foreign Universities

Institutional Opportunity

Institutional Opportunity

1. Implementation of NEP-2020
2. Innovations through Research
3. Imbibing entrepreneurship skills to budding entrepreneurs
4. Collaborative activities with industry and institutions.
5. Multidisciplinary approach.

Institutional Challenge

Institutional Challenge

1. Changing the learning style of students from exam-oriented learning to knowledge-based learning applicable to real-life
2. Making students ready for fast-changing scenarios in industries, due to limited flexibility.
3. Making the students industry ready coping up with ever changing technological developments and its applications.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Criterion I: - Curricular Aspects

The Institution ensures effective implementation of the curriculum planned as per the syllabus prescribed by the affiliating University. In order to bridge the gap, in the university-prescribed syllabus, Certificate programs, workshops, seminars, add-ons, and value-added courses/events are conducted by in-house faculty members and

invited professionals and industry experts. The academic flexibility is limited as the institute has to follow the syllabus prescribed by the affiliating university. However, the students have the opportunity to choose their elective courses, project problem statements and audit courses.

Various courses prescribed by the University which integrate different cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics are implemented. In addition, various activities are organized to address the above-mentioned issues under the banner of the National Service Scheme (NSS) and Student Development Cell (SDC). For Curriculum Enrichment, students are engaged in a variety of technical and non-technical activities which sensitize them to various community, society, environmental and national issues. Opportunities for experiential learning and hands-on training are provided through field trips, internships, project-based learning, competitions etc. The institution has signed MOUs with industries and educational institutions for the transfer of knowledge and student internships. These efforts helped to give the students exposure to current industry practices, applications and technological advancements. The institution has a strong feedback system to get direct and indirect feedback from different stakeholders, the teaching-learning process, and academic and physical facilities.

Teaching-learning and Evaluation

Criterion II: - Teaching Learning and Evaluation

The process of admitting students to the programme is through a transparent, well-administered mechanism, complying with all the norms of the Admission Regulating Authority, Government of Maharashtra and AICTE. The reservation policy of the Government of Maharashtra and Central Government is followed ensuring equity and wide access having representation of student community from different geographical areas and socio-economic, cultural and educational backgrounds. The required student-teacher ratio and Guardian Faculty Member System(GFM system) existing in the institute have made it possible to adapt teaching to the specific learning styles of the students and also to develop healthy one-on-one mentoring. The institution organizes an induction programme for newly admitted students to familiarize them with the Institute's working policies, academic structure, internal and external evaluation processes, rules and regulations.

The learner-centred teaching-learning process adopted in the institute through appropriate methodologies such as participative learning, experiential learning and collaborative learning modes, facilitates the students with effective learning. The use of ICT facilities by teachers, E-Learning resources, and innovative teaching-learning techniques adopted by teachers is a key factor in making the learning process effective. Teachers are also motivated to pursue higher studies and to attend FDPs, Workshops, seminars etc. to enrich themselves with the latest technological developments and interact with the outside world.

Continuous internal evaluation of the student's performance is carried out through assignments, tests, mini-projects, etc. Internal evaluation and end-semester evaluation are used to ascertain the attainment of COs, POs and PSOs. The question papers are framed considering the guidelines in Reforms in Examination suggested by AICTE. Feedback from students, parents and alumni is obtained to ascertain the extent of learning satisfaction by students and accordingly, corrective measures are taken.

Research, Innovations and Extension

Criterion III: - Research, Innovations and Extension

Resources for research are mobilized by applying to various funding agencies whenever the announcements are made by them. The institute promotes research activities by providing infrastructural and financial support. The Institution has created an ecosystem for innovations which includes the Centre for Innovation Incubation and Entrepreneurship Development (CIIED), Lab as a Museum, Various seminars, and workshops conducted on Intellectual Property Rights (IPR), filing patents; and copyrights for promoting research activities. Teachers and students have Research Publications and Awards to their credit. Students have participated in Smart India Hackathon.

Community approach and outreach activities are conducted for the students under the banner of the National Service Scheme (NSS), Student Development Cell (SDC), to sensitize the students towards gender, environment sustainability, human values, and professional ethics. Teachers have attended UHV workshop conducted by AICTE. The institute has signed MOUs with industries for collaborative activities such as placement drives, student internships, field trips, field projects, etc.

Infrastructure and Learning Resources

Criterion IV: - Infrastructure and Learning Resources

The institute has academic and administrative, amenities as per the guidelines of statutory bodies. The classrooms are equipped with ICT-enabled facilities including LCD projectors and Smart Boards. All the departments have a sufficient number of laboratories equipped with state-of-the-art equipment and sufficient IT facilities with Internet and Wi-Fi connectivity. A sufficient number of textbooks, reference books, e-journals, CDs, e-books, and printed journals are available in Central Library. Institutional membership of Delnet and Jaykar Library of SPPU provides a database of learning resources. The Centre for Innovation Incubation and Entrepreneurship Development (CIIED) cell existing in the institution helps start-ups. The learning resources including lecture notes, video lectures, etc. prepared by the faculty members are made available to the students through a Modular Object-Oriented Dynamic Learning Environment (MOODLE).

The college has an exclusive transport department, which takes care of transport arrangements for various academic purposes. The transport department has vehicles including buses, vans, and cars for the use of students and faculty members. ATM and food court are available inside the campus. A sick room, common boys and girls rooms, and restrooms are available. Ambulance is also available for medical care. The institute has a maintenance team to attend all sorts of maintenance work. A water treatment plant and Wastewater treatment plant are functional on campus. Outdoor and indoor sports facilities are provided. Sports materials are also provided by the institute. Necessary assistance is provided for participation in sports activities conducted at different levels by affiliating university. Financial and other support is provided to the participants.

Student Support and Progression

Criterion V: - Student Support and Progression

The institute has a guidance cell, placement cell, grievance redressal cell and welfare measures like insurance, earn and learn scheme and GFM system to support students. Remedial lectures are conducted for needy students with learning difficulties. Value-added courses, expert lectures, and hands-on training are conducted in relevant areas.

The institution provides an Academic Excellence award for students who stand in the first five positions in their End semester exam in the first year of their study. The institution has a dedicated Training and Placement Cell comprising of Training and Placement Officer (TPO), Departmental Training and Placement (TPC) and student coordinators. Guidance for competitive exams and higher studies is given through seminars. Career counselling and soft skill development programmes are conducted in collaboration with industry/institutions. Field projects and internships are facilitated for the students through MOUs signed with industries for experiential learning and hands-on training. Placement assistance is provided to the students through on campus and off campus drives.

Students are encouraged to participate in co-curricular and extra-curricular activities organized by the institute and at other institutes by providing financial assistance and transport facilities. A good number of students have participated in various activities and have won prizes. The Alumni Association is registered with charity commissioner. Alumni assist the institution financially or non-financially by way of internships, Guest Lectures, Workshops, Industrial Visits, assistance for campus Drives, etc. Alumni meets are conducted to explore the possible involvement of alumni in industry collaborations and contributions from them with respect to industrial visits, sponsored projects, seminar, guest lectures etc.

Governance, Leadership and Management

Criterion VI: - Governance, Leadership and Management

The management has an effective organizational structure comprising technocrats including the Founder Secretary of the Trust who is an Electrical Engineer and has a vision of imparting quality education. The governance of the institution is executed through various cells, bodies and committees comprising of Principal, Department Heads and faculty members entrusted with various responsibilities and duties. Liberty is given to the members of various committees to make decisions in academic and administrative matters giving opportunities for participative management.

The perspective and strategic plan of the institution includes setting up the research Centre, signing MOUs with foreign Universities, tying up with premier institutions like IITs, providing internships for all students, upgradation and sustenance of quality in the teaching-learning process. E-governance is implemented in various areas of operations like administration, examination, Finance accounts, Student Admission and Support. Faculty Empowerment Strategies of the institution include financial support for attending Conferences, STTP, Workshops etc, Faculty members are permitted to use the laboratory facilities for research activities. A number of professional training programs are organized for non-teaching staff for enhancement in their performance. Apart from the funds generated from the student fees, efforts are made by the teaching staff to generate the funds through research projects funded by various funding agencies. The institution is self-financing and the main financial resource is student fees which are managed judiciously. The institution has IQAC to frame academic policies to ensure an effective teaching-learning process.

Institutional Values and Best Practices

Criterion VII: - Institutional Values and Best Practices

The institution provides equal opportunities to all without any gender discrimination. Guest lectures and seminars are conducted by inviting eminent speakers like advocates, social workers, motivational speakers, etc. to address the issue of gender equity. Complete safety and security are provided for both genders by installing CCTV cameras and separate common rooms for boys and girls. Non-conventional energy resources like solar energy and LED tubes are used to minimize power requirements. The solid, liquid and e-waste are properly disposed of to protect the environment. A rainwater harvesting system is provided for exploring natural resources. The sewage treatment plant facilitates the recycling of water for non-drinking purposes, mainly for gardening purposes.

Varieties of trees, plants and lawns existing on the campus create a pleasant environment. Measures such as taking minimum print-outs, paper-less administration and awareness sessions on the hazards of plastic are some of the green practices adopted. Lifts, ramps, wheelchairs, ambulances, sick rooms, etc, are made available for differently-abled. The code of conduct for students, teachers, governing body, and administration including Principal /Officials and support staff is well defined which are communicated to them through the website of the institute.

The best practices being in place are 1. The Guardian Faculty Member system for mentoring and counselling of the students. This practice has an impact on students' attendance and their performance. 2. Celebration of birth anniversaries of prominent national personalities and festivals to create awareness of Indian Culture, customs and patriotism. 3. Use of ICT tools for making teaching-learning effective with outcome. 4. Financial assistance for teachers and students for participation in various events.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH
Address	GAT NO 720 1 2 PUNE NAGAR ROAD WAGHOLI TALUKA HAVELI DISTRICT PUNE 412207
City	PUNE
State	Maharashtra
Pin	412207
Website	www.jspmbsiotr.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Nagaraj Kalayanappa Timalapur	020-67335108	9922914761	020-6733510 0	principal@jspmbsiotr.edu.in
IQAC / CIQA coordinator	Prabhuling Virbasappa Jatti	020-67335101	9881409050	020-6733510 2	pvjatti@gmail.com

Status of the Institution	
Institution Status	Private and 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				
State	University name	Document		
Maharashtra	Savitribai Phule Pune University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-06-2023	12	EOA
AICTE	View Document	10-06-2023	12	EOA

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	GAT NO 720 1 2 PUNE NAGAR ROAD WAGHOLI TALUKA HAVELI DISTRICT PUNE 412207	Urban	2.5	13030

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/ Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Computer Engineering	48	10 + 2 HSC, Diploma and CET	English	180	176
UG	BE,Electrical Engineering	48	10 + 2 HSC, Diploma and CET	English	60	45
UG	BE,Electronics And Telecommunication Engineering	48	10 + 2 HSC, Diploma and CET	English	60	55
UG	BE,Information Technology	48	10 + 2 HSC, Diploma and CET	English	120	114
UG	BE,Mechanical Engineering	48	10 + 2 HSC, Diploma and CET	English	120	59
PG	ME,Computer Engineering	24	BE	English	12	4
PG	ME,Electronics And Telecommunication Engineering	24	BE	English	12	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	10				24				62			
Recruited	7	1	0	8	2	4	0	6	20	42	0	62
Yet to Recruit	2				18				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				20			
Recruited	0	0	0	0	0	0	0	0	8	12	0	20
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						48
Recruited	40		8		0	48
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				13
Recruited	4	9	0	13
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/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	7	1	0	2	4	0	0	0	0	14
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	28	54	0	82
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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
UG	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	Others	Total
		1	2	0	3

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	1164	1	0	0	1165
	Female	511	0	0	0	511
	Others	0	0	0	0	0
PG	Male	2	0	0	0	2
	Female	10	0	0	0	10
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	102	156	165	134
	Female	54	71	58	61
	Others	0	0	0	0
ST	Male	3	5	5	2
	Female	1	3	3	4
	Others	0	0	0	0
OBC	Male	290	301	279	258
	Female	97	144	122	139
	Others	0	0	0	0
General	Male	457	535	481	420
	Female	253	261	161	198
	Others	0	0	0	0
Others	Male	252	308	190	346
	Female	135	163	338	145
	Others	0	0	0	0
Total		1644	1947	1802	1707

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:

Institutional Preparedness for NEP National Education Policy 2020 lays particular emphasis on the development of the creative potential of each individual. It is based on the principle that education must develop not only cognitive capacities -both the 'foundational capacities' of literacy and numeracy and 'higher-order' cognitive capacities, such as critical thinking and problem solving – but also social, ethical, and emotional capacities and dispositions. The institute is affiliated to Savitribai Phule Pune University and follows its prescribed curriculum. In doing so the institute is already implementing some of the processes which are in line with NEP2020. The preparedness of the institution for NEP2020 is briefly explained in the following paragraphs.

1. Multidisciplinary/interdisciplinary: The institute is offering credit based as well as choice based courses. The subjects in the SPPU syllabus for program of four years fall under following categories

- Basic Sciences • Basic Engineering Sciences •
- Core subjects (including core electives) •
- Interdisciplinary subjects (including interdisciplinary electives) • Project/Seminar. Soft skills /
- Employability/Humanities Curriculum includes non-credit Audit courses which are mandatory for student's .The audit courses addresses various multi-disciplinary topics related to social, ethical emotional ,environmental sustainability, non-conventional energy sources etc. For the holistic development of students, institute conducts various activities which involve environment issues, code of conduct, humanity, community services and energy conservation under the National Service Scheme and Student Development Cell. Both units are approved by affiliating university. From Third year student can opt for elective courses. It offers them flexibility to choose subject of their interest in certain domain. Students can work on interdisciplinary project addressing various societal issues and provide solutions using latest technological applications, for example, fire fighting robot, energy conservation using IOT, agriculture issues like seed sowing, irrigation etc. The institution has the practice of celebration of national and regional festivals and birth anniversary of Indian great personalities to give exposure to Indian heritage and culture. The collaborative activities with industries help the students to gain the required professional skills.

2. Academic bank of credits (ABC):	2. Academic bank of credits (ABC): All institute students have registered for ABC. The curriculum has mentioned the Credit transfer policy if student complete the course on NPTEL/SWAYAM portal. As per SPPU syllabus, for some courses like Business Communication Skills, Humanity and Social Science Code of Conduct, one credit can be earned by student if student successfully completes the SWAYAM course as listed in curriculum of respective course. Institute has started awareness program on NEP 2020 and arranged expert talks for faculties and student to get familiar with ABC and other ideas of NEP 2020.
3. Skill development:	3. Skill development: Skill based activities are given more importance for students as well as faculty members. Skill development activities are conducted at department level and also by Training and Placement cell of the Institute for students. Training and Placement Cell has functional MOUs with industry and institutions, through which skill development and capacity building events are being held. To name a few are • Aptitude and Soft Skill Training by –Global Talent Track (GTT) • ZENSAR Employability Skill Development (ESD) Training • Mock Interviews with GD and PI • Aptitude championships • Aptitude training by GTT in association with Barclays • Barclays Industrial Visits under Barclay Life Skill • Company Specific Trainings • Full stack JAVA Training by Centum Foundation in association with Capejemini. For professional skills development in students, events like seminars, hands on training, project based learning, coding competitions, presentation competitions etc are organized in collaboration with experts from industry and institutions. The affiliating university curriculum includes subjects on Technical soft skill development and English communication. The students are offered with value-added courses for up-skilling. The value-added courses include Communication Skills, Internet of Things and Robotics, Web Development Course, Python and R Programming, Artificial Intelligence and Machine Learning, workshop on electronic components etc. Courses in all programmes are organized in such a way that students get opportunities for experiential learning and skill development through internships, fieldworks, industrial visits, projects works and hands-

	<p>on learning methods. As Skill development of faculty members is also equally important, they are encouraged to attend NPTEL certification courses, STTP, Workshops and seminars.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course): Though the medium of teaching is English, Indian languages namely Marathi and Hindi are used during the teaching –learning process to ensure that the students understand the delivered content. The institute is being encouraging the student to celebrate national days, festivals and birth anniversary of great personalities so that the students understand the Indian history, culture and customs. These events help the students to understand their role and responsibilities as citizen of India. Students are made comfortable in the campus life by providing them personal support to adjust with multicultural environment, through Guardian Faculty Member system. Yoga day and celebration of festivals helps student to connect with Indian culture. During annual social gathering students celebrate days to depict the cultural heritage of different states of India. To promote culture various competitions such as essay writing, poetry, speech competition, folk song, folk dance and skit are organized so that students will understand Indian tradition culture and values. Indian Knowledge System Team is formed and functional in the institution to look into the above mentioned activities.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>5. Focus on Outcome based education (OBE): The institute is committed to impart outcome based education through well-structured processes and policies for attainment of CO and PO/PSO. Subject teachers frame the questions in context with OBE/Learning perspective, Questions are mapped to COs and BL New/modified COs formulated to increase the mapping level and questions are framed accordingly. Questions also included real-time problems to increase the BL. Attainment of each individual Course Outcome (CO) is calculated at the end of each semester for each course and attainment of the course/subject as a whole is also calculated (using individual CO attainment values). The POs stipulated are as stated by NBA as criteria for accreditation, also DAB (Department Advisory Board) has formulated the PSOs as program- specific</p>

	outcomes of graduating students. The quality of POs and PSOs is ensured during the CO attainment process. The relevance of assessment tools used with POs are identified and implemented effectively.
6. Distance education/online education:	6. Distance education/online education: The use of ICT based teaching-learning is emphasized viz. PPT, Smart interactive Board, Videos and, MOODLE etc. During Pandemic online sessions were conducted through online platforms like; Google meet Microsoft and Zoom. Recorded videos lectures are developed and made available on MOODLE for easy access to students. NPTEL and You-Tube video links are also provided. All the experiments as per the syllabus of the SPPU were recorded by the concerned faculty members and uploaded on the Moodle. During Pandemic, the actual industrial visits were not possible. In this situation videos were used to show the manufacturing process, sites etc. The institution is not offering any approved distance education.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	1.Voter awareness Sessions conducted 2.Students were registered on (National voter Services Portal(NVSP) portal 3. Online session was conducted for students to create awareness on voting and its importance in nation building.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to	Session on Indian constitution was conducted. A poster giving awareness on importance of a voter in nations building and process to enrol as a voter was circulated to students.

advancing democratic values and participation in electoral processes, etc.	
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	Survey is conducted using Google form to find students above 18 years who are yet to be enrolled as voters in the electoral roll. A poster giving awareness on importance of a voter in nations building and process to enrol as a voter was circulated to students. Online session was conducted to create awareness.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1707	1802	1947	1644	1787

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 217

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
95	96	106	130	125

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
581.3500	531.02	492.9	350.72	649.45

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Curriculum Planning

The Gaps in the affiliating university curriculum are identified and activities like seminar, workshop, training programs, hands on training, expert lectures are planned to bridge the gaps identified. And also co-curricular and extra-curricular activities aligned with POs are planned.

Curriculum so planned is implemented by adhering to academic calendar. For effective delivery of curriculum more emphasis is given on Teaching methods & Techniques, Quality of delivery of content, Continuous Internal Evaluation, Remedial measures for slow learners, Use of ICT tools and Project Based Learning.

Evaluation and Analysis

Continuous assessment of the student is carried out using various assessment tools to ascertain attainment level of the students. Remedial actions are taken for slow learners. Video links from NPTEL are provided to students for self-learning. The MOODLE is being used for Assessment and Evaluation by conduction of tests, assignments and mini-projects. Self-made videos are used to explain the laboratory experiments.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 85

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 51.3

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1016	841	1023	845	834

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

Institution integrates cross cutting issues into the curriculum by offering the audit courses prescribed by affiliating university, which address cross cutting issues. In addition the various community approach activities are also conducted under the banner of National Service Scheme (NSS) and Student Development Cell (SDC).

Other activities initiated by the institute

Blood donation camp : Inculcating human values

Tree plantation : Environment and Sustainability

Celebration of birth anniversary of great Indian personalities: Inculcating human values & culture

Visit to Orphanage : Inculcating human values and social responsibility.

Speech by spiritual leaders: Professional Ethics, Gender, Human Values,

Community approach activities under NSS camp: Social Responsibilities

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 73.64

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 1257

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from

various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 64.09

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2022-23	2021-22	2020-21	2019-20	2018-19
355	312	319	259	270

2.1.1.2 Number of sanctioned seats year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
468	468	468	468	492

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 90.6

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2022-23	2021-22	2020-21	2019-20	2018-19
1006	881	1151	934	1012

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

2022-23	2021-22	2020-21	2019-20	2018-19
1006	1000	1260	958	1277

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 17.97

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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The Power point presentations are used in the classrooms to provide audio visual experience to the

Students. The NPTEL video lectures are adopted. Quizzes are conducted regularly. The Assignments are given to the students to nurture their problem solving abilities. Collaborative learning is practiced. The Moodle, an open source learning platform is used to share information, to create quizzes, to build modules etc.

The Project Based Learning is adopted for the self-study components. The students have to do projects pertaining to a course. The final year Projects are mentored and evaluated by externals from other institutes and industry. These projects are evaluated by a well-defined detailed rubrics framework to ensure quality of the projects. The best projects are sponsored to attend the project competitions.

Audit courses /Value added programmes are conducted on various topics. The students are also trained towards abstract writing, technical paper writing and literature survey. The OBE is practiced in true spirit resulting in more focussed all-round development of our students.

Modern Tool Usage: Wi-Fi enabled smart Boards, LCD projectors, MOODLE are used in teaching-learning process.

Industry-Institute-Interaction: Soft Skill training programs, Expert lectures, industrial visits are conducted with the industry personnel for enhancing the learning levels of the graduates. Co-curricular and extra-curricular events like group discussion, presentations, mini-project competition are conducted which are aligned with POs. The industry visits/site visits/ guest lectures, Hands on workshops by the industry experts are conducted on the latest topics and trends in the industry.

Student Support System: Remedial Classes for the slow learners and Bridge courses for lateral entry students are conducted.

The institute conduct one week induction program with student centric activities for newly admitted students. The Institution has established a Innovation, Incubation and Entrepreneurs development cell for students with an aim to inculcate the culture of innovation amongst students and encourage them to generate new ideas. The Institution ensures overall development of students through participatory learning experience.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality**2.4.1**

Percentage of full-time teachers against sanctioned posts during the last five years**Response:** 100**2.4.1.1 Number of sanctioned posts year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
95	96	106	130	125

File Description**Document**

Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)**2.4.2***Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)***Response:** 9.24**2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
11	8	11	11	10

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The internal assessment tools used includes

- One Unit test after completion of every two units of the subject
- Assignment on every unit
- Presentations on technical topics/seminars/project presentation
- Competitions once in a semester
- Quiz competitions
- Laboratory work continuous assessment for every subject.

Unit tests and Assignment questions are framed taking into consideration the COs and POs. The course teacher is responsible to conduct the unit tests and assignments, its evaluation and analysis. The laboratory works are assessed continuously by in charge teacher. Mock oral examinations are conducted by the course teacher. Mini-projects are assigned to a group of 3-4 students. The statement of marks is displayed for the information of the students.

The learning level of students is assessed by presentations by the students on their mini-project. Continuous Assessment during practical is done after the completion of each experiment where assessment is based upon the student's depth of understanding about experiments, attendance, quality of journal, performance in mock oral.

External Assessment

The affiliating university conducts the in-sem examination of 30 marks and End semester exam of 70 marks. The examinations are conducted at the institute as per the affiliating university guideline. The

Answer sheets of in-sem exams are assessed at institution level at paper checking centre established in department and statement of marks are submitted by subject teacher to exam coordinator.

The end semester examination answer sheets are evaluated at Central Assessment Program conducted at designated institution appointed by the affiliating university. The subject teachers go to the CAP and assess the answer sheets. The answer sheets are provided with bar code to hide the identity of the institution/candidate to make the assessment impartial and transparent. The question paper of in-sem and End Sem exams are released by affiliating university online which is printed half an hour before the commencement of examination using login id and password provided by the university. Barcoding is used to hide the identity of the students for fair examination and assessment.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on Institute website. In addition the Program outcomes and course outcomes are communicated to teachers and students in following ways.

- Course outcome of every course is mentioned at the beginning of the syllabus of the every course from first year to final year.
- The study materials prepared by teachers begin with mention of the COs of the particular unit.
- The PPT of every unit begins with Program outcomes and course outcomes
- The Term work of practical includes Program outcomes and course outcomes
- The program outcomes are displayed on wall at every department.

Evaluation of attainment of POs and Cos

The Departments have developed the curriculum taking all the POs into consideration and assuring that the curriculum strongly maps to all the POs. The PSOs are also appropriately framed along with the curriculum development. The COs are framed as the abilities of the student after completing the course during the framing of the syllabus. The framed COs are then mapped with the POs and the PSOs.

The framed COs for a course are measured by following the assessment Plan [Evaluation Scheme] done by the Course instructor at the beginning of the semester. Some of the most common assessment tools used for computing CO attainment are: The Direct Assessment Tools given by performance in Continuous Internal Evaluation (CIE), In-sem examination and Semester End Examination (SEE) and the Indirect Assessment Tool given by the Course End Survey (CES).

The questions given in the internal tests are mapped to the framed COs which in turn is already mapped with the POs with a mapping level. The same kind of process happens for the Quizzes, Assignments, and Lab works. A clear Rubric is framed for the Project evaluation considering all the quality parameters. This rubric is used to assess the projects. The course end survey questions are framed by the course instructor to indirectly find the level of confidence of the students on the COs framed.

At the end of the course, all the COs are measured using all the assessment methods. Similarly, all the COs of all the courses in that semester are computed. A qualitative analysis is done on the attainment of the COs for a course by the course instructor after the COs are computed. The observations, actions taken and to be taken and the recommendations are reported by the course instructor as part of the CO analysis. At the end of the programme, the POs/PSOs are computed using the CO computation value of all the COs that are mapped to a PO/PSO and through Exit Survey. The PO/PSO computation are done using the weighted average of all COs that are mapped to that PO/PSO. The Exit survey questions are framed by the department to indirectly measure the POs/PSOs. After the computation of POs/PSOs, a thorough analysis on these attainment levels is done by the department. This analysis includes finding the weak areas towards the attainment of POs/PSOs and a detailed plan of action of various events which help in the further attainment of the POs/PSOs.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

2.6.2-Attainment of POs and Cos are evaluated

The Departments have developed the curriculum taking all the POs into consideration and assuring that the curriculum strongly maps to all the POs. The PSOs are also appropriately framed along with the curriculum development. The COs is framed as the abilities of the student after completing the course during the framing of the syllabus. The framed COs is then mapped with the POs and the PSOs.

The framed COs for a course are measured by following the assessment Plan [Evaluation Scheme] done by the Course instructor at the beginning of the semester. Some of the most common assessment tools used for computing CO attainment are: The Direct Assessment Tools given by performance in Continuous Internal Evaluation (CIE), In-sem examination and Semester End Examination (SEE) and the Indirect Assessment Tool given by the Course End Survey (CES).

The questions given in the internal tests are mapped to the framed COs which in turn is already mapped with the POs with a mapping level. The same kind of process happens for the Quizzes, Assignments, and Lab works. A clear Rubric is framed for the Project evaluation considering all the quality parameters. This rubric is used to assess the projects. The course end survey questions are framed by the course instructor to indirectly find the level of confidence of the students on the COs framed.

At the end of the course, the entire COs are measured using all the assessment methods. Similarly, all the COs of all the courses in that semester are computed. A qualitative analysis is done on the attainment of the COs for a course by the course instructor after the COs are computed. The observations, actions taken and to be taken and the recommendations are reported by the course instructor as part of the CO analysis. At the end of the programme, the POs/PSOs are computed using the CO computation value of the entire COs that are mapped to a PO/PSO and through Exit Survey. The PO/PSO computation are done using the weighted average of all COs that are mapped to that PO/PSO. The Exit survey questions are framed by the department to indirectly measure the POs/PSOs. After the computation of POs/PSOs, a thorough analysis on these attainment levels is done by the department. This analysis includes finding the weak areas towards the attainment of POs/PSOs and a detailed plan of action of various events which help in the further attainment of the POs/PSOs.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 93.33

2.6.3.1 Number of final year students who passed the university examination year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
393	456	596	467	397

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
487	498	603	468	418

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 13.68

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
0.15	1	7.045	4.48	1.00

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge. It includes project and innovation labs, hardware and software research platforms, funding schemes, innovation and IPR cell, faculty and students' professional society memberships, collaborations. The various initiatives taken by the Institution are as follows:

Centre for Innovation Incubation and Entrepreneurship Development (CIIED) is functional in the institute.

Objectives:

1. To facilitate network with professional resources, which include mentors, experts, consultants and advisors for incubate companies/ individuals

2. To promote and facilitate knowledge creations, innovation and entrepreneurship activities
3. To provide the support in various thrust Area namely Mobile and Information Technology, Internet of things, Electronic design and VLSI Design, CAD/CAM applications, Software based Simulation and optimization, Embedded System, Cyber Security, PLC logic development, Renewable Energy.
4. To provide facilities to Incubate: Professional Experts, Consultants and advisor of incubate companies, to Promote and facilitate knowledge creation, innovation and entrepreneurship activities.

Research Initiatives: Project funding schemes are offered to encourage students to undertake research projects. Project based learning and internships are encouraged and students have completed it successfully. Financial support was provided by the management to students to participate in project competitions, conferences, publications in journal.

Technical Clubs/Labs: The Institution has well equipped and dedicated labs, technical clubs for development of innovative projects. e.g. Robotics and E-Yantra Lab, Coders Club, etc.

Professional Society Chapters - The Institution has well established chapters under professional societies like IEEE, ISTE, IETE, CSI, Various project competitions, seminars, community development activities, etc are organized under the societies.

Centre for Innovation Incubation & Linkage: This cell established in collaboration with the affiliating university to promote innovation and incubation..

National Service Scheme: NSS unit (Unit No:A98)recognized by affiliating university (Savitribai Phule Pune University) for 100 students is one of the platform created for conduction of community approach activities to help the students to sensitize them towards social problems, environment and sustainability, giving back to society etc

Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES):This scheme was sanctioned by All India Council for Technical Education for academic year 2022-23 with financial assistance of Rs.100000/- with equal contribution from the management. Under this scheme different clubs as listed below are established in Institute for students activities.

1. Cultural Club ("Balgandharva")
2. Personality Club("Swami Vivekanand ")
3. Technical Club(" C. V. Raman")
4. Social Club(" Baba Amte")
5. Sports Club (" P. V. Sindhu")

Following are the major achievements of students and faculty members

Student's achievements

1.Students of electrical engineering won the following prizes for their project “ADVANCED CAR JACK CONTROLLED BY WIRELESS DEVICE

1st Winner of PROJIT at JIT,Nashik, India.

3rd Winner of TECHPRO at JSPMS’s BSIOTR, Pune, India.

3rd Winner of IEEE SETC 2023 at California,USA,June 2023

3rd Winner of “TECHNOTHAN at SPCOE Baramati, India

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 79

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
18	16	10	20	15

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 2.53**3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
140	131	86	47	144

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2**Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years****Response: 0.43****3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
24	12	22	20	15

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

Sensitizing students to social issues, for their holistic development is one of priorities of our institution because we believe that our role as an Engineering institution involves something more than simply imparting knowledge and skills to our students and developing them as active members of social change.

The institution promotes various extension activities under National Service Scheme (NSS), IETE & IEEE Student Chapter and various clubs established at the institute. A Scheme for Promoting Interests, Creativity and Ethics among Students(SPICES) was sanctioned by All India Council for Technical Education with financial assistance of Rs.100000/- with equal contribution from the management. Under this scheme different clubs namely 1. Cultural Club ("Balgandharva") 2. Personality Club("Swami Vivekanand ") 3. Technical Club(" C. V. Raman") 4. Social Club(" Baba Amte") 5. Sports Club (" P. V. Sindhu"). The main aim is to identify development challenges in rural area and propose appropriate solutions for accelerating sustainable growth. Entrepreneurship Development (ED) Cell at the Institution aims to encourage students to consider self-employment as a career option. Institution has received many awards for innovative projects.

The main aim of the NSS Unit is to develop a sense of social and civic responsibility in the students. Several activities are carried out such as cleanliness, tree plantation, water conservation, use of solar energy, environmental awareness, national integrity, blood donation camps, health check-up camps, road safety and plastic eradication. In addition to this, students volunteered during pandemic. The student volunteers have organized weekly camps in nearby adopted villages. Apart from this, departments have their department students associations to continuously encourage students to take active participation in welfare of society by engaging them in social activities. The participation in extension activities helps students in sensitizing towards social issues and encourages them to provide solutions. This leads towards holistic personality development of students

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Sensitizing students to social issues, for their holistic development is one of the priorities of our institution. A Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES) was sanctioned by All India Council for Technical Education with financial assistance of Rs.100000/- with equal contribution from the management. Under this scheme different clubs namely 1. Cultural Club (Balgandharva) 2. Personality Club(Swami Vivekanand) 3. Technical Club(C. V. Raman) 4. Social Club(Baba Amte) 5. Sports Club (P. V. Sindhu). Various activities are conducted under these clubs to sensitize students to social issues for their holistic development

The institution has an NSS unit sanctioned by Savitribai Phule Pune University for 100 students. Affiliating University provides funds for Extension activities in the neighbourhood community. Several activities are carried out such as cleanliness drives, tree plantation, water conservation, use of solar energy, environmental awareness, national integrity, blood donation camps, health check-up camps, road safety and plastic eradication and other society centric program/activities

Extension activities sponsored and funded by affiliating universities are carried out at adopted villages. The activities include a cleanliness drive, tree plantation, water conservation, use of solar energy, environmental awareness, national integrity, blood donation camps, health check-up camps, Yoga sessions, road safety and plastic eradication.

Appreciation letters and certificates are awarded to the institute by the government/government recognized bodies.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums

including NSS/NCC with involvement of community during the last five years.

Response: 102

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

2022-23	2021-22	2020-21	2019-20	2018-19
23	25	13	27	14

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 24

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

The institute is offering 5 undergraduate and 2 postgraduate programs affiliated to the Savitribai Phule Pune University (SPPU). The Institution provides adequate facilities and ensures the best possible utilization of physical infrastructure to support the teaching-learning process, co-curricular, extra-curricular activities and an ecosystem for research and innovation. The infrastructure and facilities fulfil the norms laid by AICTE, DTE, and SPPU. The facilities are regularly upgraded considering the need of stake holders.

Physical infrastructure like Classrooms, Tutorial Rooms, Laboratories, Machine Shop (Workshop) and Seminar Halls are available. In addition to this, the Institution has distinctive auditorium with seating capacity of 320 people, administrative rooms, examination control room, central and departmental libraries, a computer centre, two language laboratories, Video Conferencing Room, Sick room and ambulance available 24/7. The available physical infrastructure is utilized to conduct co-curricular and extra-curricular activities, workshops, counselling sessions, training activities, and campus recruitments.

Class Rooms

The Institution has adequate number of ICT-enabled classrooms and seminar halls. All classrooms and seminar halls have Wi-Fi/internet facilities for an effective teaching-learning process. They are well equipped with green boards, LCD projectors, and Smart boards. All the rooms are ventilated and well furnished. Seminar Halls are provided with modern facilities including video conferencing.

Laboratory Facilities:

The Institution has adequate number of laboratories as per AICTE norms. Departments have laboratories consisting of the latest equipment, licensed software, and open-source tools to cater to the requirements of curriculum & industry. The charts and models are displayed in the laboratories for a better understanding of concepts. The Institution has a well-equipped machine shop which facilitates the students to perform various machining processes required for projects.

Library Facilities:

The central library is automated with software and is equipped with e-resources. It provides physical

facilities such as a reading hall and a digital library. It has OPAC software used for quick access to library resources.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 8.54

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
71.29	2.32	0	101.69	47.16

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

The central library of the institute is well-stocked with recommended textbooks, reference books, and CDs. It has a subscription to e-books, E-journals and Printed journals. In addition, the library has a collection of rare books, and other knowledge resources for library enrichment, accessible to the students and faculty as reference material for enrichment of their knowledge. These rare books include books on competitive exams, encyclopedias, motivational books, novels, books on health care, politics, history, inventions, research, etc. There are a total of 3646 titles and 16644 volumes. These are enlisted in the table which is uploaded as additional information. Library working hours are extended for students before the commencement of examination. Book bank facility is available for students. A digital library is made available for browsing/searching. The reading room is well furnished with seating capacity of around 200 students / faculty. The library is optimally used by the faculty and students.

Integrated Library Management System:

Open access software “Koha” is used for management of library support. This software has following features/applications

- Various Web 2.0 facilities like tagging, comment, and social sharing d RSS feeds.
- Union Catalog facility.
- Customizable search
- Online circulation
- Bar code printing
- Patron card creation
- Report generation
- Patron self-registration form through OPAC

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure**4.3.1**

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

The institution has IT facilities including WI-FI and sufficient number of computers with required

peripherals. The departments are having system software and application software's, both licensed and open source software's. The details of IT facilities are as given below.

Internet and WI-FI facility:

Provider: TATA-Teleglobal Communications Private Limited

Band Width: 300 Mbps

Content Ratio: 1:1(Gold)

Campus Level Updating: 200 Mbps to 500Mbps, Date of Updating: 02/05/2022

Smart boards with internet/Wi-Fi for ICT enabled teaching.

Audio-Video System in class room for NPTEL video lecture.

ICT facility with LCD projector and Audio System in class rooms.

Application Software's(Licensed/Open Source)

Mechanical Engineering

CREO, ANSYS-6.0, MASTER CAM, CAD FEKO, Auto CAD, MATLAB 6.0

MATLAB Tool Boxes 5 , Fusion360: freeware

Electrical Engineering

Matlab_R2022b: Unlimited users, PLC : multiple users , PSIM : 5 users

Computer Engineering& Information Technology

Exchange Server Standard Turbo C++ 4.5

Oracle 9i

Microsoft Visual Studio 2008, 2012, Express

Microsoft Office 2003/2007/2010/2013

Micro wind 3.1-comp

Adobe Flash MS Office 2013

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2**Student – Computer ratio (Data for the latest completed academic year)****Response:** 2.76**4.3.2.1 Number of computers available for students usage during the latest completed academic year:**

Response: 618

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1**

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 21.92**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
163.84	118.01	107.53	16.22	165.63

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 81.59

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1345	1468	1611	1353	1474

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

- 1. Soft skills*
- 2. Language and communication skills*
- 3. Life skills (Yoga, physical fitness, health and hygiene)*
- 4. ICT/computing skills*

Response: A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 49.45

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

2022-23	2021-22	2020-21	2019-20	2018-19
731	1133	0	1449	1082

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

Response: A. All of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 60.37

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
215	418	278	350	133

5.2.1.2 Number of outgoing students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
393	456	596	467	397

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 3.17

5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)

2022-23	2021-22	2020-21	2019-20	2018-19
4	1	6	11	7

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3 Student Participation and Activities

5.3.1

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

Response: 11

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

2022-23	2021-22	2020-21	2019-20	2018-19
3	1	1	3	3

File Description**Document**

Upload supporting document

[View Document](#)

list and links to e-copies of award letters and certificates

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 14.6

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
22	11	03	17	20

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The Alumni Association of the Institute is helping in connecting the past and the present students of the institute. It helps in bonding of alumni from their academic life into professional opportunities.. The Alumni Association was registered with the charity commissioner office in August 2017(MAHA/1097/2017/Pune). Total registered members are more than two thousand five hundred.

The alumni are working in different private sectors like IT, Communication, Automobile, Manufacturing, Embedded Industries etc. Some of them are also working in Government Sectors in administrative positions. Many of them have taken higher education and working at renowned companies. Some of them have become successful entrepreneurs.

The alumni association plans, executes and documents the activities and meetings. It provides support for the development of the institution through collaborative activities. It greatly helps for the Training and Placement, Internships, Sponsored Projects Experiential Learning and creating awareness about entrepreneurship. Alumni contribute in many ways to Technical Talks, Guest Lectures, hands-on workshops. The alumni are also involved in IQAC and Department Advisory Board and provide valuable suggestions. In addition to this, they are involved in Competitive examination preparation and career development programs. The alumni association encourages alumni to provide financial support for organizing various activities. Every year alumni contribute significantly through financial and other support services. Alumni are enthusiastic and eager to contribute in every possible way they can. The alumni association makes every effort for involvement of alumni in the development of the institution with its motto of "Connect, Inspire and Grow". Passing out students contribute Rs. 500/- in the form of registration fees for the lifetime membership of Alumni association. Alumni meets are conducted once in a year in which some data base is created like, their present position, work domain, how they can contribute and suggestions in curriculum implementation to bridge the gap in curriculum.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

Vision Statement of the Institution

To satisfy the aspirations of the youth force, who wants to lead the nation towards prosperity through techno-economic development.

Mission Statement of the Institution

To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship for all aspiring students, which will prepare them to face global challenges maintaining high ethical and moral standards.

The Institution's Vision emphasizes creating workforce to lead the nation towards prosperity through techno-economic development. To ensure the realization of the Vision, the Mission statements have created actionable areas with an emphasis on the development of entrepreneurial skills, the impetus for research and development activities, creating an environment of inclusiveness for the overall development of students.

The Institution is working towards the accomplishment of the mission statements, which are clearly aligned to the vision. For the fulfilment of the stated mission, the leadership ensures the monitoring and enforcement of the policy statements and strategic action plans which are formulated based on careful consideration of all the stakeholders.

The Institution has an efficient multi-layered governance structure which is run by “Jayawant Shikshan Prasarak Mandal” established in the year 1998.

The Board of Governors (BOG) being at the apex provides directives for the effective implementation of the Institution's academic and administrative activities. The College Development Committee (CDC) provides the framework of policies, structures, systems, and processes for the smooth functioning of the Institution.

Governance in all areas is achieved through active participation of teachers in BOG, CDC and Internal Quality Assurance Cell (IQAC). Different committees having involvement of the faculty members are constituted for smooth functioning of various activities. The IQAC monitors the functioning of all the committees relevant to teaching-learning, student enrichment, and overall development of the institution to identify areas of improvement and suggest the necessary action plan. These policies result in the

overall development of the student imparting quality education through dynamic learning environment. The coordinator of the committees plans different activities and ensures their timely execution; this reflects effective governance which is in tune with the Vision and Mission of the Institution.

Decentralization and participation

The Institution promotes decentralization and participative management where each committee is given freedom to make a perspective development plan for smooth functioning. Effective leadership is visible through planning, implementing, and executing the quality policy of the Institution. The Institution has formed various committees that are constituted by staff members to manage different institutional activities and to promote academic leadership. The Principal discusses with the Heads of the Departments the needs, problems, suggestions for improvement in the educational quality, infrastructure, etc. to propose to the management for further action. As a part of the quality initiative the IQAC, statutory Committees, CDC, and Governing Body (GB) continuously work on quality improvement. The committees are headed by faculty in-charges and comprise inter-departmental teams along with student representatives.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

The institution has an efficient multi-layered governance structure.

Governing Body

At the apex of organizational structure is the Board of Governors. This body provides insight to the Institution's academic and administrative activities. Governing Body members formulate policies and regulations regarding finance, administration, and academics for effective management of the institution and plan for future expansion, development.

College Development Committee

College Development Committee is headed by the Founder Secretary of the Jayawant Shikshan Prasarak Mandal and other representatives. This body provides the framework of policies, structures, relationships, systems, and processes for the smooth functioning of the Institution.

Administrative setup

The day-to-day administration is seen by the Principal, Heads of Departments, Dean Academics, IQAC Coordinator. The Principal is in-charge of all academic and administrative decisions in the institution. Heads of departments are responsible for smooth functioning of academic progress of their departments and assisting in planning, implementation of academic programmes such as orientation courses, seminars, and other training programmes for academic competence of the faculty members and students.

Committees

The various committees help in the smooth governance of the institution. Coordinators and members are nominated from faculty members for various committees for administrative, academic, co-curricular and extracurricular activities formed for effective working of the Institution.

Recruitment

The institution follows the recruitment procedure prescribed by the affiliating university which includes, approval of roster for recruitment from the affiliating university, publishing advertisement in leading newspapers and Institution's Website, conduction of interviews through the panel constituted by the affiliating university, Issuing appointment orders and joining of recruited teachers

Service Rules: The acts and rules issued from time to time by the regulatory bodies like AICTE, DTE Maharashtra state, Savitribai Phule Pune University are adopted as guidelines for procedures, recruitment, promotional policies, and code of conduct.

All other applicable State/Central Government rules and Bye-laws of trust are duly considered. The Institution frames all its policies in consultation with the Management and staff and the various committees. The management motivates and involves teaching faculty members and non-teaching staff for the overall development of the institution through various committees. These committees are allocated different responsibilities and their execution.

The Institution has clearly defined policies for all administrative and academic processes. These are approved by the parent body. All processes are adhered to and implemented with a high degree of transparency.

A performance appraisal system for teaching faculty members and non-teaching staff is set up, wellintegrated with institutional functioning. This leads to the identification of needs of individual training and development as well as the recognition of faculty members whose performance is outstanding.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

Some of the welfare schemes are as follows:

1. Employee Provident Fund (EPF): The institute contributes towards the Employee Provident Fund (EPF) that helps staff to create sufficient corpus for a retirement benefits.

2. Appreciation/Reward for remarkable work/outstanding contribution: Every year on the occasion of Republic Day the teaching faculty members and students are felicitated for certain achievements like patent, 100% result in subjects, sports achievements, university rankers etc.
3. Academic Awards: Cash prizes are given to first year students standing first, second third.
4. Promotions to higher posts based on completion of higher education, outstanding contribution: After completing the higher education and/or award of Ph.D., the faculties are promoted to a higher post as well as increments have been provided to them.
5. Support for higher education: The management takes initiative to motivate the teaching for enrolling to Ph.D. programs. The library, laboratory, and infrastructure facilities of the Institution are available to the staff for pursuing such programs and their research work.
6. Financial supports to the teaching faculty members attending conferences/seminars: Teaching faculty members are motivated to attend the Faculty Development Programs (FDP)s, conferences, short term training programs (STTP), and hands on training for which financial support is provided by the institution which includes registration fees, accommodation, travelling and other expenses.
7. Financial support for institutional membership: The institution has provided financial assistance for institutional membership of professional bodies namely Indian Society for Technical Education(ISTE),Computer Society of India(CSI), Institution Of Electronics And Telecommunication Engineers(IETE) and Solar Energy Society of India(SES) for conduction professional activities and have tied up with many organizations and agencies for conduction of student centric activities like soft skill training programs, aptitude training and technical training etc to enhance the employability of students..
8. Medical insurance scheme: The medical insurance policy is taken from the Star Health Insurance Company for all teaching faculty members and non-teaching staff.
9. Accidental insurance scheme: The accidental death insurance policy is taken from the Oriental Insurance company for all students.
10. Leaves: All types of leaves have been sanctioned as and when required by all employees as per university statutes.
11. Uniforms: Institution provides uniforms to non-teaching staff every year.
12. Accommodation: Free accommodation for non-teaching staff in the campus.
13. Water Treatment plant: RO Plant for safe drinking water in the college premises as well as in girl's hostel.
14. Other: Apart from all this, the institution strives to provide excellent infrastructural amenities with Wi -Fi enabled campus, canteen facility, gymnasium, and so on.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2

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

Response: 21.38

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

2022-23	2021-22	2020-21	2019-20	2018-19
34	12	10	37	25

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 46.95

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
90	112	73	104	45

6.3.3.2 Number of non-teaching staff year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
60	59	71	80	81

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Adequacy of budget and effective utilization

The Institution's major source of funding is through students' fees. The Institution prepares annual budget in order to manage the financial resources effectively. The Institution also has an adequate corpus

in form of fixed deposits to tide over administrative and salary requirements. The institution has a well-formulated financial policy that ensures effective and optimal utilization of finances for academic, administrative, and development purposes. All the Heads of Departments and other in-charges submit their budgetary requirement for various categories of expenditure under 'recurring' and 'non-recurring' heads before the commencement of every academic year. The development and maintenance requirements of the central facilities are also prepared and approval is taken for the same in the College Development Committee (CDC) meetings. The utilization of the budget is carried out as per the identified priorities. The focus of expenditure in the Institution is on increasing the quality of academic inputs that positively contribute to the development of the students, staff, and the Institution

Utilization of funds from Government agencies, affiliating University

Funds availed from the Central Government agencies such as AICTE, affiliating University Savitribai Phule Pune University (SPPU) are used for the programs/events , purchase of material. Expenditure is incurred and utilization certificates are submitted as per the norms laid down by the competent agencies.

Internal and External Audit

All the major financial transactions are monitored by the accounts department of the institute and the account department at trust office. The purchase procedure such as calling quotations, preparing comparative statements, negotiation meetings are followed for effective and efficient use of available financial resources.

The internal audit is a continuous process. Internal Auditors and their team from external resources have been appointed by the trust for verification of all payments, receipts & all types of vouchers of the transactions, cash books that are carried out in each financial year. The auditor also verifies and certifies the entire Income, Expenditure, and Capital Expenditure of the Institution every year. A team of Auditors from external resources has been appointed to do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Discrepancies identified, if any, by the audit team are immediately corrected / rectified and thereafter precautionary steps are taken to avoid recurrence of such errors in the future.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures &

methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The quality assurance strategies of IQAC are aimed at OBE through effective teaching-learning processes, conducting student-centric activities and recording the learning outcomes. The following are IQAC's initiatives and procedures set for the effective implementation of teaching-learning process.

Strategies for Implementation of Outcome-Based Education (OBE)

- Student Centric co-curricular and extra-curricular activities for holistic development of the students.
- Financial assistance for students and faculty members for participation in different types of events and programs to provide a learning platform for skill enhancement.
- Financial assistance for NPTEL certification course for teaching faculty members.
- Management and Professional Development programs for teachers and technical staff.
- Structured monitoring of teaching-learning and other student-centric activities.

The IQAC has set up a systematic process for academic audit with the following objectives:

To Ensure timely, efficient and progressive implementation of academic processes

Quality benchmarks/parameters for various academic activities.

Use of ICT tools and integration of modern methods of teaching and learning to enhance effectiveness of teaching – learning process.

A learner-centric environment through co-curricular and extra-curricular activities.

Feedback mechanism from students, parents and other stakeholders.

Internal Academic audit is conducted twice a year as per the systematic procedure set up by the IQAC.

IQAC Contribution to Quality assurance strategies and processes

The IQAC plays an important role in the implementation of quality assurance strategies and processes related to academic and other student-centric activities, Research and development, Extension and outreach activities, and Administrative and other support services.

Following are the examples of practices institutionalized by IQAC initiatives:

Process I: Skill development programs for faculty and students.

Objectives:

1. To improve the employability skills of students.

2. To enhance the teaching-learning skills of teachers.

IQAC Initiatives:

1. Every Department is encouraged and motivated to organize in-house technical hands-on workshops and expert talks for students in collaboration with industries working in various domains.
2. The institution has tie-ups/MoUs for collaborative student-centric activities.
4. Cell for Innovation, incubation and Entrepreneurship.
6. Deputation of faculty to attend Faculty Development Programs, seminars, workshops, Quality improvement programs, and orientation workshops.
7. Financial assistance to faculty members for NPTEL certification courses.

Process II: Techno-Social Collaborations

Objectives:

1. To collaborate with different professional societies and Industries.
2. To collaborate with different social activity clubs/organizations for extension and outreach programs.
3. Associations with Professional Societies like CSI, ISTE, IETE, etc.
5. Community development activities under NSS unit approved by Savitribai Phule Pune University.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**
- 5.Any other quality audit/accreditation recognized by state, national or international agencies**

such as NAAC, NBA etc.

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

Measures initiated by the Institution for the promotion of gender equity

The institute has a strong ethical work culture that is based on inclusivity. It observes the highest ethical standards in all its academic and administrative activities. Equal opportunities are provided to all individuals irrespective of gender, race, caste, colour, creed, language, or religion. Safety, security and well-being, along with gender equity and a friendly working atmosphere are the issues of prime concern to the institute. Gender sensitivity is an inherent value in the cultural ethos of the institute as is evidenced by the following facilities –

(a) Safety and Security

Well-trained and vigilant women Warden and Assistant Wardens are appointed to the Girls Hostel. Security checkpoints are provided at all campus entries and exits. Strict implementation of Anti-Ragging measures is in place. A sufficient number of Security guards are deployed on institute premises for strict vigilance. The college campus is under surveillance with CCTV cameras. Women faculty members accompany female students when they participate in outdoor activities or tours.

(b) Counselling

Guardian Faculty Member counsels the students during mentoring regarding academic performance, career plans and personal issues. Health Counselling, Values Counselling and Career Counselling take place periodically. Separate boys' and girls' common rooms are provided with the required facilities.

National and international commemorative days, events and festivals

The Institution commemorates the anniversaries of great Indian personalities namely Chhatrapati Shivaji Maharaj, Rajmata Jijabai, Savitribai Phule, Sir M Visveswarayya, Dr.Sarvapalli Radhakrishnan. On such occasions, renowned speakers are invited who share the teachings of these eminent personalities through their speeches. Students participated in a cleanliness drive, tree plantation, and yoga demonstration for school students organized by NSS Cell. NSS Cell organizes “NSS Day” on 24th September to develop a sense of social and civic responsibility in the students towards society and the nation. On the occasion of Teachers’ Day on 5th September, the students of various departments express their love and gratitude for their teachers and salute Dr. Sarvepalli Radhakrishnan, a renowned teacher and second president of India.

The Institution celebrates Engineer's Day on 15th September to recognise and honour the achievements of the great engineer Sir Mokshagundam Visvesvaraya. Various national festivals and Women's day is celebrated on International Women's Day i.e. 8th March to show respect towards women in all the efforts taken by them to manage their personal and professional life and for their contributions. International Yoga Day is celebrated in the Institution on 21st June to bring awareness about the health benefits of yoga among the students and the faculties. Gender audit is carried out to evaluate participation of male and female students in various types of events.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1. Green audit / Environment audit**

2. Energy audit**3. Clean and green campus initiatives****4. Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

The Institution takes various initiatives for promoting tolerance and harmony towards cultural, Regional, linguistic, communal, socio-economic and other diversities. The Institution believes in equality of all cultures and traditions as is evident from the fact that students belonging to different

caste, religion, regions are studying in the institute without any discrimination.

Different festivals are celebrated with zeal and enthusiasm. The students along with faculty members actively help Warkaris- Devotees of God Vitthal, during Palkhi celebration. Marathi Bhasha Diwas is celebrated to promote the importance of regional language. With great fervor the birth anniversaries and memorials of great regional and national personalities like Sir M. Visveswarayya (Engineers Day) , ,Sarvapalli Radhakrishnan(Teacher day) Chatrapati Shivaji Maharaj, Bharatratna, Krantijyoti Savitribai Phule are celebrated. To honor their contribution towards the nation and the society, motivational seminars, talks are organized. Annual cultural festival, 'Nakshatra' comprising various folk dances, songs and dramas based on social issues is organized. To promote regional and cultural diversities

'Traditional day' is celebrated as a part of 'Nakshatra'.

For the promotion of unity in diversity, the National Service Scheme (NSS) Cell of the Institution organizes many programs. The programs aim at strengthening the unity and integrity of India. The objective is to sensitize stakeholders about the importance of communal harmony, national integration and fraternity. Every year NSS Cell conducts Special Camps in villages. These camps are directed towards various social issues impacting the lives of the people in the community, including social and cultural values among students. There is a Grievance Redressal cell in the Institution which deals with grievances without considering anyone's racial or cultural background.

The Institution has a code of ethics for students, teachers and other employees which have to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

BEST PRACTICE NO 1

1. Title of the Practice:

Guardian Faculty Member (GFM) Mentoring

The title/s should capture the keywords that describe the practice.

1. Objectives of the Practice

- To provide support and guidance on the teaching-learning process.
- To address psychosocial issues of the students for in-time remedy.
- To improve relationships between teachers and their students and create cordial environment.
- To take feedback on the teaching-learning process and facilities

The underlying principles or concepts of the practice are listed below

- The practice should be supportive/encouraging for the students for their holistic development.
- Mentoring should help the students in maximising their potential, developing skills, improving performance, and focusing on the growth and development of the skills as they progress towards higher classes.
- To resolve the personal issues through one-on-one interaction.

3. The Context

The challenging issues that needed to be addressed in designing and implementing this practice are as follows:

- Home Sickness: The students admitted after their 10+2 are from different areas of the state and most of the admitted students are moving out of their homes town the first time. As some time is required to get adjusted to the new academic environment and new place, many students undergo homesickness leading to distraction from their involvement in academic and other activities.
- Academic performance issues: Lack of proficiency in English, is one of the factors for underperformance by students.
- Personal issues: Personal issues due to misunderstandings, misconceptions, and distractions due to the use of social media.
- Reluctance in participation of students in extra and co-curricular activities due to fear of failure or shyness.
- Necessity of timely attention towards problems faced by students related to the Teaching-learning process, facilities, health and other issues.
- Exam stress
- Problems with time management
- Balance social life with studies
- Exhaustion
- Isolation

1. The Practice

Every faculty member of the institute plays the role of mentor and the system is termed as Guardian Faculty Member System (GFM system). 20-25 students are assigned to each GFM. A fortnightly meeting is conducted by GFM with assigned students and various issues as mentioned in the context are discussed. The GFM meeting report is reviewed by the Head of the Department for necessary remedial actions to be taken. The issues which need the attention of the head of the Institute are brought to the notice for corrective actions. Immediate actions are taken so that the students feel cared for regarding Academic performance, personal issues and any issues with academic and

1. Evidence of Success

Improvement in Attendance, Performance of students in Internal/External examinations, and

participation of students in co-curricular and extra-curricular activities. Confidence building in students for creativity and critical thinking. **Problems Encountered and**

1. Problems Encountered and Resources Required

- Some students are reluctant towards the mentor's suggestions, but efforts are continued to see that such students realise their roles and responsibilities.
- Reluctance to interact openly with the mentors and share their problems.
- Some sort of casualness is observed with some parents when the institute tries to interact with them for the betterment of their wards. This may be due to their ignorance. Not responding to the mentoring and negligence by students.

Resources required:

All necessary resources are made available for implementation of this best practice.

BEST PRACTICE NO 2.

1. Title of the Practice:

Academic Awards and Financial Support for Students and Faculty Members for Participation in Events.

2..Objectives of the Practice

To enhance the participation of students in events for holistic development

3. The Context

Academic awards and financial support facilitate economically weak students to participate in events for their holistic development. Financial support for teaching staff is a motivator for skill enhancement for the academic benefit of students.

4. The Practice

The first-year students are awarded with cash prize every year after the declaration of the results. The awards are conferred during the Induction Programs of students admitted next year for awareness of the award being offered. Teaching staff are provided with financial assistance for NPTEL certification courses and for attending events organized by other institutes.

1. Evidence of Success

Increased competitive environment to secure awards leading to the orientation of students towards participation in teaching–learning process.

Skill enhancement of teaching faculty members.

1. Problems Encountered and Resources Required

There are no problems encountered in the implementation of this practice and management is providing necessary resources for its implementation.

File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

ENVIRONMENT FRIENDLY PRACTICES AND CONTRIBUTION TOWARDS RURAL DEVELOPMENT

“A healthier environment leads to a healthier brain and healthy body”. This phrase so well matches with JSPMBSIOTR philosophy of developing a clean and green campus with zero waste. This is achieved by the following initiatives.

1. Use of eco-friendly, renewable energy sources for meeting partial energy requirements in the campus, hostels. 2. Spreading awareness among students and staff and the public at large for protecting the environment and using green technologies. 3. Recycling waste generated in the campus, hostels through eco-friendly practices.

Use of eco-friendly, renewable energy sources:

Photo-voltage solar plates connected in series to produce renewable energy 1kw is provided on the roof top of one of the building of the institute. It is used in Electrical Engineering department in HOD cabin on which 5 LED bulbs of 20 v each, two ceiling fan of 40 V each, two computer systems of 60V each , two printers of 80 V each and one smart board 150 V is operating on this system. On an average this leads towards near about 135 Units of energy saving per month. This system is off grid system which includes solar UPS of 1kW and tubular battery of 160KH.

Motion sensors are installed in the corridor to save the energy. Whenever a person comes in the range of PIR motion sensors gets activated and gives signal to Arduino which turns on the lights and as person passes away and there is not motion sensed by PIR sensor after predefined delay ,the supply is cut off and lights go off automatically. This leads to saving in energy.

Recycling waste generated in the campus, hostels through eco-friendly practices

1. Establishment of waste management system: The waste generated from the office and hostel premises of the college is collected in separate dustbins. Recyclable waste such as paper, clothes and fallen leaves of trees is collected separately. E-waste generated is also planned to be recycled back through e-waste dealers. A Sewage Treatment Plant has also been established by the College.

2. Maintaining green cover on the college campus: The College has maintained ample green cover in its campus by regular plantations on its premises. Different species of trees have been planted in the campus to enhance the green diversity.

3. Pollution, Polythene and Plastic-free campus: Open fire is not allowed on the College campus. The use of single-use polythene is strictly prohibited. The college encourages the use of public transport of college.

4. Water conservation facilities: This includes rainwater harvesting structures, wastewater recycling for gardening and maintenance of water bodies.

5. BSIOTR has also made significant contributions in the adopted villages under NSS activities. The institution has brought awareness yoga, hygiene, health and environment by conducting various sessions for primary and high school students in its adopted villages. The institution has also taken several initiatives to improve the health and sanitation facilities in the adopted villages. It has highlighted the importance of the usage of public toilets in the villages. The institution has also conducted several programs on awareness on Covid-19 and its impact on health. How to take care of their health and surroundings from pandemic.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

The institution is accredited by NAAC with B++ grade in the year 2018 and three undergraduate programs namely Information Technology, Electrical Engineering and Electronics and Telecommunication Engineering are Accredited by National Board of Accreditation in the year 2023. The accreditation by NAAC and NBA has benefited the institution in the implementation of the curriculum more effectively with student-centric activities and methodologies for outcome-based education. And accreditation of institute has paved the way for implementation of NEP-2020.

Concluding Remarks :

The institution is implementing the teaching-learning process with a well-planned process keeping in mind the importance of Outcome Based Education for a diversified student fraternity to make them capable of pursuing their professional career with moral and ethical values for socio-economic development. It is a great opportunity for the institution to shape the future of the students with Academic Flexibility, student-centric activities, project-based learning, internships, community approach activities etc. At the same time it is a great challenge for the institute to make the students industry-ready to cope up with the everchanging technologies. The learner-centered teaching process through appropriate methodologies such as participative learning, experiential learning and collaborative learning modes, is facilitating effective learning. The institution's Teachers' readiness and expertise in the use of ICT tools and teaching methodologies help the students in their learning process. The key factor which should not be missed out to mention here is the honest and committed Governance and the support rendered by the institution's management in academic and administrative process by providing all necessary amenities, facilities and financial support.