Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH**
Name of the head of the Institution	**Nagaraj Kalayanappa Timalapur**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**020-67335108**
Mobile no.	**9922914761**
Registered Email	**principalbsiotr@gmail.com**
Alternate Email	**principal@jspmbsiotr.edu.in**
Address	**Gat No 720 (1 and 2) Pune Nagar Road, Wagholi, Tal Haveli, Dist Pune**
City/Town	**Pune**
State/UT	**Maharashtra**
Pincode	**412207**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Prabhuling Virbasappa Jatti**
Phone no/Alternate Phone no.	**02067335100**
Mobile no.	**9881409050**
Registered Email	**iqac@jspmbsiotr.edu.in**
Alternate Email	**pvjatti_mech@jspmbsiotr.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://jspmbsiotr.edu.in/naac/naac_aqar
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://jspmbsiotr.edu.in/naac/2019-20/naac_aqar

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B++**	**2.86**	**2018**	**02-Nov-2018**	**02-Sep-2023**

6. Date of Establishment of IQAC	**06-Jun-2016**

7. Internal Quality Assurance System

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

FDP on LATEX	17-Feb-2020 6	11
Workshop on Android Based Automation for students	12-Mar-2020 3	40
Workshop on Basics of IOT and Embedded System in association with IETE ,Pune	13-Mar-2020 3	56
Zensor ESD Soft skill , aptitude, life skill and Technical Training on Core Java, TLSQL for students	09-Dec-2019 26	20
Microsoft Certification Program on IOT with Python for students	16-Sep-2019 4	18
Faculty Development Training program Java Programming	07-Jun-2019 11	12
AICTE funded Short Term Training Program on Digital Skill Development for professionals	07-Dec-2020 6	223
FDP on Effective Implementation of Curriculum	08-Jan-2020 1	125
One day workhop on Modern Teaching Methodologies	13-Jun-2019 1	125
Session on Blooms Taxonomi, defining of CO and its mapping with POs	10-Jun-2019 1	125
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Y S Angal, Electronics and Telecommunication Department	STTP	AICTE, NEW DEHLI	2019 125	348333
Dr. Y S Angal, Electronics and Telecommunication Department	QIP	SPPU, Pune	2019 365	500000
Information and Technology	QIP	SPPU, Pune	2019 365	100000
Electrical Engineering	Equipment fund	SPPU, Pune	2019 365	100000

Sports Department	QIP	SPPU, Pune	2019 365	100000
NSS Unit	NSS Scheme	SPPU, Pune	2019 7	25250
Electronics and Telecommunication Department	ISF Funds	ETE New Dehli	2019 3	3124
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View File]()
10. Number of IQAC meetings held during the year :	**3**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File]()
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**Yes**
If yes, mention the amount	**1176707**
Year	**2020**

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

- **Implementation of seminars and certificate courses.**

- **Implementation of skills enhancement programs through Value added courses imparting transferable and life skills .**

- **Execution of Field Projects /Internships under taken during the year in collaboration with industries.**

- **Encouraging the faculty members to enhance their knowledge by appearing NPTEL certification courses conducted by IIT.**

Effective implementation of online teaching due to COVID -19 pandemic situation.

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

Plan of Action	Achivements/Outcomes
Provision of adequate learning material.	Facilitates students and staff for their studies and research and publication activities.
Periodical conduct of academic and administrative audits	Improvement in the system to create students-centric learning environment.
Documentation of activities related to academics, co-curricular and extra-curricular activities.	Documentation of activities related to academics, co-curricular and extra-curricular activities has helped to plan further remedial action for progressive improvement.
Adoption of assessment tools aligned with POs	Achievement of different learning levels and POs by students.
Organization of Workshops and Seminars/add-on courses	Total 16 Certificate courses,12 value added courses and 18 Workshops were conducted leading to multi-skills abilities in the students.
Creation of Learner Centric Environment	Modern Teaching aids like LCDs, Intelligent Interactive boards, provision of online and offline learning material, online teaching using MOODLE created leaner centric environment leading to effective transfer of the knowledge to the students
Faculty Development Program	Faculty participated in total 45 International level, 247 National Level, 22 State Level and 15 Local level programs. 25 Programs conducted under IQAC as Quality initiatives and six professional development programed organized for teaching and non - teaching staff. Leading to updating of the faculty knowledge.
Setting of quality parameters for various academic activities.	Improvement in Teaching Leaning process, CIE and results.
Curriculum Design and its implementation	Implementation of syllabus with bridging the gap there by enhancing employability skills.
Preparation of Academic Calendar	Effective Implementation of academic activities, CIE, cocurricular and extracurricular activities.
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14. Whether AQAR was placed before statutory body ?	No

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**07-Sep-2018**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**22-Jan-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**The institution has Management Information Systems as listed below. Microsoft campus agreement Microsoft Campus agreement licenses included Windows XP Professional, versions of Microsoft Office and the Visual Studio .NET suite of developer tools for operating all Computers in the Institute for Educational and Administrative purpose. The departments are having system software and application software, both licensed and open source softwares. The following list describes the computing facility available: System Softwares :. 1. Windows XP 2. Windows Vista 3. Windows 7 4. Windows 8 5. Windows 8.1 6. Windows 10 7. Windows Server Application Softwares: 1. Microsoft Visual Studio 2008 2. Microsoft Visual Studio 2012 3. Microsoft Visual Studio Express 4 Microsoft Office 2003/2007/2010/2013 Autolib Software version 10. The Central Library of the institute is partially automated with Autolib Software version 10. This system enables efficient library administration to cater students and staff services. This software has various following modules as under Circulation (lending materials to patrons and receiving them back): In the library circulation module provision is made to issue/return/renew for books circulation, nonprint material circulation (CD, DVD, etc.) and serial circulation (Print Journals/Magazines).Library rules**

setting generate the barcodes, listing of books (by authors, publishers, and suppliers), printing of member barcode, etc. There is provision for immediate confirmation of library transactions through the email and message alert facility. OPAC: Online Public Access Catalog for searching the library resources. User can search the library resources as per follows: 1. General Search: Title Author Publication Keywords Classification 2. Advance Search: The searching can be done with various combinations Title Author Publication Keywords Classification. 3. Accession Search: Search can also be done through the accession numbers without remembering the title or author of the book. This facilitates fast accurate searching. Modular Object Oriented Dynamic Learning Environment (MOODLE) Institute promotes digital education with the help of an Online Learning Management System called as MOODLE (Modular Object Oriented Dynamic Learning Environment). Faculty members upload their course materials like notes, PPTs, NPTEL videos, university question papers, Question banks, assignments, workbooks and case studies which can be accessed by students and faculty from anywhere using their login credentials. Students solve their assignments, workbooks, quizzes, etc. online and submit it through their respective MOODLE login. The faculties can assess the work submitted by the students online and in turn provide grading and feedback to the students. Del net: Institute has Delnet membership to access Delnet consortium of ejournals for 2021 and ebooks. MS office professional Tally ERP 9 MS office professional Tally ERP 9 is used in account section of the institute.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

Curriculum Planning The subjects from first year to final year are grouped into different modules. Subjects of similar domain are grouped into a module. There can be 3-5 subjects in a module. A faculty member is designated as module coordinator.. The module coordinator and the course teacher's together plan the

implementation of university syllabus after designing curriculum by identify the gaps in the course content prescribed by the affiliating university. In doing so the POs and the performance index as per guidelines of the AICTE are considered. Internal Quality Assurance Cell (IQAC) of the institute plays important role in framing the strategies for effective implementation of the curriculum. Academic Monitoring Committee (AMC) is responsible for assessing the quality of the delivery of the course content by the course teachers. More emphasis is given on the following • Course content development by course teachers. • Teaching methods Techniques and tools used. • Utilization of Resource by course teacher and students. • Quality of delivery of content • Continuous Internal Evaluation • Evaluation of attainment levels • Remedial measures for slow learners • Content delivery by professionals and industry experts. Support for Effective Curriculum Delivery Faculty members are encouraged to attend the in house and off campus seminars/workshop/STTP/webinars/NPTEL certification courses etc to upgrade the knowledge about latest technological developments and industrial practices so that, the curriculum can be implemented/delivered effectively using different teaching technique's-resources and ICT tools are made available to the faculty and students for teaching-learning purpose. Monitoring of Teaching –Learning process Internal Quality Assurance Cell (IQAC) and Academic Monitoring Committee (AMC) ensure the effective delivery of the curriculum using different techniques by regular monitoring. Implementation of Curriculum The institute adopts student centric teaching learning methodologies which are enumerated below. Telecast of Video Conferencing lectures delivered from central studio of JSPM. Teaching methodologies like Originative Facile Approach (OFA) and Lab as a Museum. Use of E-Learning resources like MOODLE, NPTEL lectures by adopting ICT enabled class rooms. Intelligent Interactive Panel (IIP) to make teaching learning enjoyable and effective. Lecture Capturing System in class rooms. Evaluation and Analysis Continuous assessment of the student is carried out by conducting Class/ Unit tests /mock online tests/mock oral/mock practical exam to ascertain the attainment level of the students and thereby identify slow learners and advanced learners. External evaluation is done through in-semester, oral/practical and end semester written exam conducted by university. Remedial lectures are conducted for slow learners and opportunities are created for advanced learners to showcase their innovative ideas. Documentation Documentation of all activities starting from curriculum design to Evaluation of attainment of POs is documented in the institute/departments. The documentation of all teaching-learning activities are used to assess the extent of effectiveness of the teaching-learning process

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Certificate course on baics of IOT and Embeded Systems in association with IET Pune	No	10/03/2020	2	Employability	Technical skills
Certificate course on Android	No	12/03/2020	3	Employability	Technical Skills, Intrapersonal skill

based automation					
Microsoft Certificatio n cross platform	No	01/08/2019	4	Employabil ity skills	Technical Skills, Intr apersonal skill
Certificat ion programme on basics of python programming	No	15/01/2020	52	Employabil ity skills	Technical skill
Certificat ion programme on Design, Manu facturing, testing of 3 phase distribution transformer	No	24/02/2020	5	Employabil ity and Entr epreneurship	Technical and Leadership
A course on Design and Development of Piping.	No	20/07/2019	6	Employabil ity and Entr epreneurship	Technical and analysis skills
Microsoft Certificatio n program on IOT with python	No	16/09/2019	4	Employabil ity and Entr epreneurship	Technical and leadership skills.
A training course on Zensar ESD Softskills, Aptitude, Lifeskills, Technical training like core java, PLSQL	No	09/12/2019	25	Employabil ity and Entr epreneurship	Soft skills, Life skills, Technical skills and Managerial skills.
A course on "Aspiring minds by ISER"	No	11/01/2020	2	Employabil ity and Entr epreneurship	Soft skills, Leadership skills
Training on Career guidance on capgemni cracking skills by Mr. Dipendra wagh	No	23/01/2020	1	Employabil ity	Aptitude skills, soft skills
A	No	04/04/2020	1	Employabil	Aptitude

certificate course on Aptitude and soft skills					ity	skills, soft skills
Employability skills Training by GTT	No	01/05/2020	42		Employability	Soft skills, life skills
05 days Free High Technical Training (Industry 4.0) plus an Opportunity to get selected for a Job	No	24/04/2020	5		Employability	Soft skills, life skills, Aptitude skills,
FUEL Two day aptitude training	No	26/01/2020	2		Employability	Aptitude and soft skill
Zensar ESD Programme	No	20/02/2020	8		Employability	Technical, soft skill and aptitude skill
Tata Steel Online certification	No	01/05/2020	15		Employability and Entrepreneurship	Technical and Leadership skills

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechanical Engineering	17/06/2019
BE	Electronics and Telecommunication Engineering	17/06/2019
BE	Electrical Engineering	17/06/2019
BE	Information Technology	17/06/2019
BE	Computer Engineering	17/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Engineering	17/06/2019
BE	Information Technology	17/06/2019
BE	Electrical Engineering	17/06/2019
BE	Electronics and	17/06/2019

	Telecommunication Engineering	
BE	Mechanical Engineering	17/06/2019
ME	Computer Engineering	13/01/2020
ME	Electronics and Telecommunication Engineering	13/01/2020

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

	Certificate	Diploma Course
Number of Students	1187	0

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
A course on JAVA and MYSQL by Zensar	04/07/2019	33
Value added course Android programming by Microsoft	01/08/2019	56
A course on Android based automation	12/03/2020	40
Add on course on PCB design and Manufacturing	10/03/2020	56
A course on advanced data structure using C	22/10/2019	45
Value added course on Cyber Security.	01/09/2020	55
Add on course on Transformer design and Manufacturing	24/02/2020	50
Add on course on Solar roof top power plant design	20/12/2019	35
A course on Creo Software for CAD design	07/08/2019	40
A add on course on Ansys application	12/01/2020	38
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Mechanical Engieerng	100
BE	Electrical Engineering	25
BE	Electronics and Telecommunication Engineering	7

BE	Computer Engineering	112
BE	Information Technology	56
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

As the feedback from stakeholders and its analysis plays very important role in overall development of the institution. Institution collects the feedback from • Students • Parents • Alumni Student Feedback Questions A set of questions related to quality of teaching, methods used, tools used, preparedness of teachers, support by teachers, resource material made available to them etc are used to take feedback from the students.Few of the questions used for feedback are as follows 1. How do you rate the curriculum being implemented at the institute is upgrading your knowledge level? 2. Quality of the teaching methods and techniques being used to implement the designed curriculum 3. How do you rate the quality of industry expert lectures/seminar to understand the concepts? Parent Feedback Questions A set of questions related to their wards knowledge perform the job,capable to analyze the things related to stream/Branch, able to face new problems and challenges etc are used to take feedback.Few of the questions are as follows 1. Does your ward use modern engineering tools, techniques and software? 2. Does your ward behave in responsible manner? Alumni Feedback Questions The quesionnaie for alumnifeedback are based on teaching-learning process,training and placement, teaching methods and tools, their opinion on the improvements to be made in the entire teaching-learning process.Few of the questions used are as follows. 1. Do you think that your experience at BSIOTR laid the foundation to compete professionally as an engineer? 2. Do you think that your experience at BSIOTR laid the foundation to apply the problem solving skills you learned at BSIOTR to meet the challenging demands and increasing responsibilities of a successful engineering career Feedback Analysis and Action Taken Student Feedback Analysis . Based on students feedback remedial actions are taken in connection with content delivery by teachers and also in connection with co-curricular and extra-curricular activities. Parent Feedback Issues/problems faced by their wards related to teaching-learning process, facilities in campus and any other problem faced by their ward are addressed with remedial measures. Alumni Feedback Analysis Training programs/skill development programs etc are planned and executed. Alumni suggested that they can be invited to the campus to interact with students in order to update the existing students in institute regarding industry expectation, work culture and etiquettes to be followed in industry etc. Alumni were very much satisfied with the type of culture built up in the campus.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Computer Engineering	120	111	111
BE	Information Technology	60	55	55
BE	Electronics and Telecommunication Engineering	60	39	39
BE	Electrical Engineering	60	23	23
BE	Mechanical Engineering	120	31	31
ME	Computer Engineering	24	6	6
ME	VLSI and Embeded System	24	2	2

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1626	19	117	8	125

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
125	125	27	31	6	17

View File of ICT Tools and resources

View File of E-resources and techniques used

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

The students admitted in the institute come from different backgrounds. The institute conducts an induction program is conducted at the entry level. The activity helped the department/institute to identify the diversity of the students. This induction program comprising of student oriented activities helped students to • Know each other • Get rid of their fear of new environment • Show their talent and excel • Know the teachers etc. • Learn to work in a team Guardian Faculty member (GFM) The institution faces the following challenges/problems with students at entry level and during their graduation tenure in the institute. Challenge No 1: Lack of knowledge/ proficiency in English. Challenge No 2: Home sickness, Challenge No 3: Circumstantial Unrealistic perception of students about their career. Challenge No4: Distraction of students from studies due to various reasons. Challenge No5:

Lack of skill sets and personality In order to mentor the students in connection with above challenges/problems Guardian Faculty Member (GFM) system is being adopted in the institute since the inception of the institute. For a batch of about fifteen to twenty students, a teacher is assigned the role of Guardian. Teacher Guardian works as a friend, philosopher, guide and mentor for the students under him. He keeps the track of every students day-to-day activities and records daily attendance, test results, internal assessment, prelim examination results and other related information of students. Regular meeting are conducted with batch of students by GFM to mentor them in connection with any problems expressed by the students and solution for the problems are suggested or remedial actions are recommended/taken. The GFM system in the institute has helped to • Improve the Attendance of students, • Motivate students to improve their Performance in Internal/External Examinations • Motivate students to participate in co-curricular and extra-curricular activities In addition to the GFM system, the course teachers, Heads of the Department and Principal of the institute take part in mentoring process whenever it is required and necessary.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1645	121	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
122	125	0	0	11

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Yogesh S Angal	Professor	Member Board of Studies, Instrumentation, Savitribai Phule Pune University.
2019	Dr. Yogesh S Angal	Professor	Recognised Ph. D Guide at Savitribai Phule Pune University
2019	Dr. Yogesh S Angal	Professor	Vice Chairman IETE New Dehli, Centre IETE Pune.
2019	Dr. Anil L Wanare	Professor	Key note speaker international forum on Electrical Engineering and Automation, at Qingdao, China, Organised by National University of Taiwan.
2019	Dr. Nilam N Ghuge	Professor	Member Board of Studies Electrical Engineering, PAH Solapur University. Solapur

2019	Dr. Nilam N Ghuge	Professor	Recognised Ph D Guide at JJT University, Rajastan
2019	Dr. Nilam N Ghuge	Professor	Ph.D Thesis Evaluator at RTM Nagpur University
2019	Dr. Nilam N Ghuge	Professor	Ph.D Thesis Evaluator at Sant Gadgebaba Amaravati University
2019	Dr. Gayatri M Bhandari	Professor	Recognised Ph D Guide at JJT University, Rajastan
2019	Dr. Gayatri M Bhandari	Professor	Reviewer CPGCON20 at SPPU Pune University.

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	631161210	Semester II	27/04/2020	11/11/2020
BE	631137210	Semester II	27/04/2020	11/11/2020
BE	631129310	Semester IISemester II	27/04/2020	11/11/2020
BE	631124610	Semester II	27/04/2020	11/11/2020
BE	631124510	Semester II	27/05/2020	11/11/2020
BE	631161210	Semester I	05/12/2019	25/02/2020
BE	631137210	Semester I	05/12/2019	25/02/2020
BE	631129310	Semester I	05/12/2019	25/02/2020
BE	631124610	Semester I	05/11/2019	25/02/2020
BE	631124510	Semester I	05/11/2019	25/02/2020

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

Since the course work in our programs are oriented towards teaching technical knowledge and skills, professional outcomes may not result only from participation of students in a particular class or set of classes. To achieve the higher order abilities and professional skills reforms are made in CIE. Blooms Taxonomy learning/level of attainment are considered in CIE. CIE reforms for technical Level attainments(Level 1-4 as per Blooms Taxonomy): For attainment levels from 1-4 fixed hour internal examination which includes CIE and Semester End Examination (SEE) are adopted. The assessment tools used in the institute include the following. • Unit wise course test • Unit wise

assignments • Problems solving sessions • Presentations • Competitions • Role plays • Quiz competitions • Open book examination It is ensured to set examination papers/activities in the above mentioned assessment tools aligned with attainment levels from 1-4 by the course teachers. CIE reforms for professional outcomes and higher-order cognitive attainment(Level 4-6 as per Blooms Taxonomy): For attainment levels from 4-6 as per Blooms Taxonomy the following tools are used to teach and assess professional outcomes and higher-order cognitive abilities/attainments. • Course Projects • Project – based learning • MOOCs • Mini/Minor Projects • Final year projects • Internships • Hands on Training • Industrial visits The three components of Rubrics as listed below are used as assessment tools. • Criteria/performance indicator • Descriptors • Scale/level of performance

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

With reference to the affiliating university academic calendar the institute calendar is prepared. The departmental academic calendar is in line with the institute calendar which is prepared by the Departmental academic coordinator in consultation with Head of the Departments. The institute and department calendars which are prepared with reference to the academic calendar by university includes the details such as • Academic activities • Co-curricular and extra-curricular activities • Training programs • The dates of exam • Submission schedule • Sport activities • industrial visit, • Annual Social gathering, • Festivals and holidays • Schedule of meetings All activities at institution level are executed centrally with the help of the committees/teams constitute centrally. The activities at departmental level are executed by portfolio coordinators appointed in the department. All efforts are made to adhere to the academic calendar with minimum deviation. However during the second half of 2019-20, because of the pandemic situation the academic activities were planned and executed as per the guidelines from Government of Maharashtra and the affiliating university. Content delivery and evaluation activities were conducted online using MOODLE and other platforms namely Zoom, Google and Microsoft Teams meeting platform. The digital contents were made available to students using MOODLE. However the academic calendar of 2019-20 deviated drastically because of the pandemic situation.

2.6 – Student Performance and Learning Outcomes

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

https://jspmbsiotr.edu.in/storage/NAAC/course_outcomes.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
631124510	BE	Computer Engineering	149	148	99.42
631124610	BE	Information Technolgoy	62	62	100
631129310	BE	Electrical Engineering	113	113	100
631137210	BE		25	25	100

		Electronics and Telecommunication Engineering			
631161210	BE	Mechanical Engineering	111	111	100
631124510	ME	Computer Engineering	5	5	100
631124510	ME	ETC- VLSI & Embeded system	5	3	60
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2.7 – Student Satisfaction Survey

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

https://jspmbsiotr.edu.in/naac/2019-20/naac_agar

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	365	., M.S.Technology, Pune	0.6	0.6
Any Other (Specify)	730	Quality Improvement Program(QIP) Scheme of Savitribai Phule Pune University(SPPU)	5	5
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Workshop on Android based Automation(IETE) in association with IETE Pune centre-	Electronics and Telecommunication Department	12/03/2020
Workshop on IOT Embedded Systems in AAssociation with IETE Pune Centre	Electronics and Telecommunication Department	10/03/2020
PCB Design Workshop	Electronics and Telecommunication Department	13/01/2020
Seminar on Microsoft Certification Orientation	Computer Department	16/07/2019

Program		
Webinar on need of Cyber Security Skills and Job Opportunities	Computer Department	15/05/2020
Seminar on Aspiring mInds for Research Project" by IISER	Computer Department	11/01/2020
Workshop on Solar Rooftop Plant Design introduction to PVsyst in assocoation with AVIRO ENERGY INDIA PVT. LTD.	Electrical Department	27/07/2019
Application of Advanced Power Electronics in Electrical Engineering by Electronic Study Centre, Nashik	Electrical Department	16/04/2020
A seminar on How to write Research Paper.	Electrical Department	15/02/2020
Seminar on Advanced Data Structure Using C language.	Information Technology	22/10/2019
Webinar on AI, ML and data science,	Information Technology	10/08/2020
Seminar on "Patent Registration Process"	Information Technology	10/02/2020
A seminar on "Aspects and performance of wire cut electrical discharge machining (WEDM) process through experiments and analyses	Mechanical Department	16/12/2019
A work shop on 3D printer performance and analysis based on Arduino.	Mechanical Department	20/02/2020
One day seminar on Odd effects of Mechanical Vibration and solutions to it	Mechanical Department	27/08/2019
SOLAR POLICIES INITAITED BY Govt of India and Govt of Maharashtra by AVIRO ENERGY INDIA PVT LTD, PUNE.	Electrical Department	25/05/2020
One day workshop on "Introduction to Various Passive Methods for Vibration Control."	Mechanical Department	26/12/2019
A seminar on Intellectual Property Right	Electronics and Telecommunication Department	23/03/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Gas leakage detection and preventive system	Tejas Zambare, Snehal Yerule, Jayesh Nehete	Savitribai Phule Pune University, Pune	21/01/2020	Student
IOT Enabled underground Drainage water using Flow Sensor	Akansha Patil Shamal Jamadar	Savitribai Phule Pune University, Pune	21/01/2020	Student
IOT based Fire Detection and Online Monitoring System	Gaikwad Somnath Pandurang Salve Neha Ashok	Savitribai Phule Pune University, Pune	21/01/2020	Student
Detection of phishing websites using extreme learning machine based on URL:	Ashwini Shinde, Divya Sawant, Sayali Varal	Savitribai Phule Pune University, Pune	21/01/2020	Student
Automatically counting and identifying breeds of different animals using neural networks.	Ms. Gursal Vaishnavi Rajendra. Ms. Sapna Katri. Ms. Anjali Rajput. Ms. Shreya Alhat	Savitribai Phule Pune University, Pune	21/01/2020	Student
Title: An autopilot drone for search and rescue operation in a forest fire	Mr.Praveen Kumar Priyadarshi , Ms.Neha Prakash Langhe, Ms. Sayali Sunil Parhad, Ms. Prachi Prakash Bhosekar , Mr. Shubham Gajanan Rajpure,	Savitribai Phule Pune University, Pune	21/01/2020	Student
Video streaming using blockchain	Rushikesh Nikumbh, Akshay Sanas, Nikhil Pandit, Juned Pirjade, Akanksha Jagtap	Savitribai Phule Pune University, Pune	21/01/2020	Student
All in one using smart card biometric technology for digitalization of India based	Kunal Wagh Harish Patil Priyanka Gaikwad Vishnu Talware	Savitribai Phule Pune University, Pune	21/01/2020	Student

IOT				
Student placement prediction using decision tree machine learning	Nageshwar Patil Akshay Kothawade Sadashiv Sangale Akash Bobade	Savitribai Phule Pune University, Pune	21/01/2020	Student

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
CENTRE FOR INNOVATION INCUBATION ENTREPRENEUR DEVELOPMENT CELL (CIIEDC CENTRE FOR INNOVATION INCUBATION ENTREPRENEUR DEVELOPMENT CELL (CIIEDC	SHEKHAR SHASHIKANT PHARATE	Bhivarabai Sawant Institute of Technology and Research	SHIVANSH ELECTRICALS ENTERPRISES	GOVT CERTIFIED ELECTRICAL CONTRACTOR	25/06/2019
CENTRE FOR INNOVATION INCUBATION ENTREPRENEUR DEVELOPMENT CELL (CIIEDC	NANDKUMAR WAGHMARE	Bhivarabai Sawant Institute of Technology and Research	LAXMI LIGHT HOUSE	GOVT CERTIFIED ELECTRICAL CONTRACTOR AND ELECTRICAL INTRUMENTS TESTING AND RETAILER	03/08/2019
CENTRE FOR INNOVATION INCUBATION ENTREPRENEUR DEVELOPMENT CELL (CIIEDC	KIRAN DANGE	Bhivarabai Sawant Institute of Technology and Research	SHIVKUMAR TRANSFORMER PVT LTD	GOVT CERTIFIED ELECTRICAL CONTRACTOR AND ELECTRICAL INTRUMENTS TESTING AND RETAILER	04/09/2019
CENTRE FOR INNOVATION INCUBATION ENTREPRENEUR DEVELOPMENT CELL (CIIEDC	SNEHA DALA	Bhivarabai Sawant Institute of Technology and Research	S.V. INFRA STRUCTURE	GOVT CERTIFIED ELECTRICAL CONTRACTOR	05/01/2020
CENTRE FOR INNOVATION INCUBATION ENTREPRENEUR DEVELOPMENT CELL (CIIEDC	Mr. Aniruddha Pati	Bhivarabai Sawant Institute of Technology and Research	Apecto SolutionsPrivate Ltd	Software Development	23/02/2020

CENTRE FOR INNOVATION INCUBATION ENTREPRENEUR DEVELOPMENT CELL (CIIEDC	Mr. Sumeet Surana	Bhivarabai Sawant Institute of Technology and Research	Quick Yes Infotech Pvt Ltd	Software Development	16/04/2020

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
50000	5000	10000

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

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

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Information Technology	2	Nill
International	Information Technology	8	Nill
International	Electronics and Telecommunication	14	5.3
National	Computer Engineering	0	Nill
International	Computer Engineering	11	3.5
International	Electrical Engineering	134	5.6
National	General Science	1	Nill
International	General Science	1	6.7

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

Department	Number of Publication
Electrical Engineering	25
Computer engineering	7
Information Technology	3
Electronics and Telecommunication Engineering	22
Mechanical Engineering	2
General Science	2

View File

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Currency identification and forged banknote detection using deep learning	Prof. Megha Jadhav	2019 International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET)	2019	1	JSPMs BSIOTR	5
Currency identification and forged banknote detection using deep learning	Dr. G.M. Bhandari	2019 International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET)	2019	1	JSPMs BSIOTR	5
Temperature and Humidity Bearing on Tropospheric Ozone Concentration Over Pune	Swati S.Godse	Renewable Research Journal-Rex journal	2020	Nill	JSPMs BSIOTR	Nill
A PILOT STUDY OF TROPOSPHERIC OZONE CONCENTRATION OVER PUNE BY USING EVA SPECTROMETER	Swati S.Godse	International Journal of Engineering, Science and Mathematics	2020	Nill	JSPMs BSIOTR	Nill
Development of scrum Tree KNN Algorithm for Distributed Agile	Dr. Rupali Atul Mahajan	The International Journal of Innovative Research in Science, Engineering	2019	16	JSPMs BSIOTR	16

| Vehicle Automation | Ashwini G Jadhav | International research journal of engineering and technology | 2019 | 1 | JSPMs BSIOTR | 2 |

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Currency identification and forged banknote detection using deep learning	Prof. Megha Jadhav	2019 International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET)	2019	1	3	JSPMs BSIOTR
https://scholar.google.co.in/citations?userXu9C9y4AAAAJhlen	Dr.Yogesh S Angal	National Conference. Bharati Vidyapeeth Deemed University, College of Engineerin	2019	6	78	JSPMs BSIOTR
Currency identification and forged banknote detection using deep learning	Dr. G.M. Bhandari	2019 International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET)	2019	1	3	JSPMs BSIOTR
Development of scrum Tree KNN Algorithm for Distributed Agile	Dr. Rupali Atul Mahajan	The International Journal of Innovative Research in Science, Engineering	2019	11	11	JSPMs BSIOTR

Vehicle Automation	Ashwini G Jadhav	International research journal of engineering and technology	2019	1	1	JSPMs BSIOTR

| | | and Technology (IJIRSET) | | | | |

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	16	223	20	15
Presented papers	28	21	0	0
Resource persons	1	3	2	0

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Library Cleaning	National Service Scheme (NSS)/Student Development Cell (SDC)	2	20
Laboratory Cleaning	National Service Scheme (NSS)/Student Development Cell (SDC)	5	10
Classroom Cleaning	National Service Scheme (NSS)/Student Development Cell (SDC)	5	20
Swachha Va Swastha Bharat Abhiyan Pandhrwada (Cleanliness Oath)	National Service Scheme (NSS)/Student Development Cell (SDC)	3	30
Road Safety Abhiyan	National Service Scheme (NSS)/Student Development Cell	5	50

	(SDC)			
Swachha Vari Swasthha Vari Nirmal Vari Harit Vari : Loni Kalbhor	National Service Scheme (NSS)/Student Development Cell (SDC)	6	100
International Yoga Day	National Service Scheme (NSS)/Student Development Cell (SDC)	9	30
Tree Plantation Prepration	National Service Scheme (NSS)/Student Development Cell (SDC)	3	25
Jagtik Tambakhumuktta Divas	National Service Scheme (NSS)/Student Development Cell (SDC)	3	30
Matdar Janjagruti Melava	National Service Scheme (NSS)/Student Development Cell (SDC)	20	50
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Seven Days Special camp at Sakore Tal: Ambegaon Dist: Pun	Appreciation Letter	Grampanchayat, Sokare	25
Intensive cleaning of Maher Orphan Ashram at Bakori	Letter of Thanks and Appreciation	Maher Orphan Ashram, Bakori	50
Sangali-Kolhapur Flood Relief Program	Application Letter	District Administration	100
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Natioan Service Scheme/Social	Savitribai Phul Pune University Pune	Seven Days Special camp at Sakore Tal:	3	25

Development Cell		Ambegaon Dist: Pune		
Natioan Service Scheme/Social Development Cell	Savitribai Phul Pune University Pune	Mula Muta:River Cleanliness Program under "Swachtta Hich Seva"	5	95
Natioan Service Scheme/Social Development Cell	Savitribai Phul Pune University Pune	Ralley of cleanliness and hyegine.	2	98
Natioan Service Scheme/Social Development Cell	Savitribai Phul Pune University Pune	Intensive cleaning of Maher Orphan Ashram at Bakori	3	105
Natioan Service Scheme/Social Development Cell	Savitribai Phul Pune University Pune	Door to Door campaigning in Nyati elyan on Open Defection free, Hygiene	2	120
Natioan Service Scheme/Social Development Cell	Savitribai Phul Pune University Pune	Classroom, Laboratory, playground and Library cleaning	14	115
Natioan Service Scheme/Social Development Cell	Savitribai Phul Pune University Pune	Swachha Vari Swasthha Vari Nirmal Vari Harit Vari : Loni Kalbhor	15	140
Natioan Service Scheme/Social Development Cell	Savitribai Phul Pune University Pune	Matdar Janjagruti Melava	20	135

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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
ESD Training Session by Zensar for students	34	No finance involved	40
Faculty exchange program for Electrical engineering between BSIOTR and AVIRO Energy India Pvt. Ltd. Pune .	5	No finance involved	90

Faculty knowledge Enhancement Programme with Bhairavnath Sugar Works Ltd, Sonari, Tal Paranda, Dist .Osmanabad	12	No finance involved	30
Faculty Exchange program for Electrical Engineering between Bhivarabai Sawant Institute of Technology and Research, Pune and LT Electrical Automation Switchgear Training Centre, Pune.	2	No finance involved	15
Aptitude and Soft Skills Training by FUEL	78	No finance involved	7
Quiz competition on Aptitude in line with leading MNCs placement pattern by Betrainophilic	111	No finance involved	10
Goal Setting and Planning Workshop by Evolvingx	123	No finance involved	5
Free Placement Preparatory C Java Programming Video Course by Talent battle	112	No finance involved	12
Faculty exchange programme for Mechanical Engineering between Bhivarabai Sawant Institute of Technology and Imperial College of Engineering, Pune	4	No finance involved	20
Faculty exchange programme for Electrical Engineering between Bhivarabai Sawant Institute of Technology and Jaywantrao Sawant College of Engineering, Pune.	3	No finance involved	4

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Training	SOFT SKILLS, Life Skills, APTITUDE Technical TRAINING	RPG Founda tion(Zensar Technologies)	09/09/2019	08/08/2020	56
Training	Interaction with Barclays Head	GTT, Vimannagar Pune	12/07/2019	11/07/2020	190
Internship	Internship	Stack Zeal	08/08/2019	07/01/2020	10
Internship	Internship	ACE Pvt Ltd Pune	07/01/2019	06/01/2020	1
Internship	Internship	Internshala	23/05/2019	22/05/2020	150
Internship	Internship	Zensar ESD, Kharadi, Pune, Phone No: 020 66074510	11/01/2019	20/01/2019	34
Internship	INTERNSHIP AND RECRUITMENT	FRIENDS UNION FOR ENERGISING LIVEL(FUEL), Prashant Mandlik, Mo. 90 7557 9191	07/07/2019	12/07/2019	60
Training	SOFT SKILLS AND APTITUDE TRAINING	FOCUS ACADEMY FOR CAREER ENHAN CEMENT(FACE) ,91422450607 0,9665621234	01/01/2019	14/07/2019	201
Internship	Database of Institute	Zerton Engineering Services Pvt. Ltd,Mr Sujit Chankhore 9860830863	19/03/2019	31/05/2020	5
Training	Certificat	KNOWLEDGE	04/07/2019	31/05/2020	110

	SOLUTIONS INDIA (ATS INFOTECH GROUP) 8087601895 (Rajkumar Bhunia)				
ion and Advance courses					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Knowledge Solutions India (ATS INFOTECH GROUP) Rajkumar Bhunia 8087601895	04/07/2020	Microsoft certification Partner	110
Zerton Engineering Services Pvt. Ltd,Mr Sujit Chankhore 9860830863	28/01/2019	College Playstoreapp, Database of Institute	3
FOCUS ACADEMY FOR CAREER ENHANCEMENT(FACE),914224506070, 9665621234	07/08/2019	Soft Skills, Life Skills, Aptitude Technical Training	201
INTERNSHALA, 9571117766	04/03/2019	Internship and Recruitment	255
iTpreneur Data System Pvt. Ltd. Shivani Nimbhorkar (Placement Co-ordinator) Ravindra katum, 9604491933	17/02/2019	Internship and Recruitment	77
FRIENDS UNION FOR ENERGISING LIVEL(FUEL), Prashant Mandlik, Mo. 90 7557 9191	21/01/2020	Internship and Recruitment	65
SCORA technology, Ganesh Patil,996729250	01/01/2019	Database, Placement	23
Zensar ESD, Kharadi, Pune, Phone No: 020 66074510	01/09/2019	Training Placement	34
ACE Pvt Ltd Pune	01/07/2019	Internship and Recruitment	1
GTT, Vimannagar Pune, Rccha	07/12/2019	Internship, Industrial Visit	190

| Agrawal, HR and Training Head Rahull Rai,Key Account Manager,Global Talent Track, 91 7263024311 | | and Recruitment | |

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
13.55	12.45

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
AUTOLIB	Partially	10	2011

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	1930	677000	0	0	1930	677000

Reference Books	1537	908283	0	0	1537	908283
e-Books	27000	182900	0	0	27000	182900
Journals	70	182900	0	0	70	182900
Digital Database	1	19470	0	0	1	19470
CD & Video	1387	23000	0	0	1387	23000
Library Automation	1	46000	0	0	1	46000
Others(s pecify)	1	198382	0	0	1	198382

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof P V Jatti	Manufacturing Process I and II	MOODLE	15/06/2019
Dr. Gitey J S	Hydraulics and pneumatics	MOODLE	15/06/2019
Dr. Nehe S S	Industrial Engineering	MOODLE	15/06/2019
Dr.Y.S.Angal	Signal Processing and Automation	MOODLE	15/06/2019
Dr.A.L.Wanare	Communication Engoneering	MOODLE	15/06/2019
Dr.G.M.Bhandari	Computer Organization Architecture	MOODLE	15/06/2019
Dr. A. C. Lomte	Computer Networks	MOODLE	15/06/2019
Prof. Sawane M S	Humac Computer Interaction	MOODLE	15/06/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	644	28	48	28	1	10	581	48	53
Added	20	1	20	1	0	5	15	20	5
Total	664	29	68	29	1	15	596	68	58

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

68 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Lecture Capturing System, Smart Board	https://lms.jspmbsiotr.edu.in/

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
31.44	14.71	16.18	28.55

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

The maintenance of physical, academic and support facilities are carried out by the respective departments with the help of in house staff on daily basis and periodically. Periodical/on spot maintenance is undertaken to keep the equipments, machines, computers etc in working condition. In case of breakdowns standard procedure is followed to bring the equipment/machine in working condition. A supervisor is appointed to monitor and maintain the physical facilities and housekeeping. A brief description is presented below on maintenance and utilization of some facilities. 1. Laboratories (All Labs Computer center): Each laboratory has one teacher as lab in-charge, a Lab Assistant and attendant. Lab in-charge is responsible to maintain and update the laboratory with necessary equipments from time to time to cope with change in the syllabus. Every end of the semester dead stock verification (Physical Verification) is carried out to verify working/nonworking/missing equipments etc. Preventive maintenance and performance monitoring is carried out. Every laboratory assistance keeps the record of utilization of equipments, computers and other required material for experiments. 2. Library: Librarian with supporting staff maintain central library. They focus on the availability and utilization of instructional material in teaching and learning process. Every end of the Academic year stock verification is done. Procurement of books as per the requirement is initiated through library committee by inviting the requirement of books from various departments which is then processed following the procurement procedure. 3. Sport complex/ground/equipments: Physical Director looks after the maintenance of all sports facilities and all sports related activities. The sports equipments are issued to the students as per the schedule of the events. If any equipments get faulty sport director submits proposal for maintenance. Preventive maintenance measures are taken in time. Sport director is keeping the record of utilization of sport facilities. 4. Class Rooms: The class rooms are cleaned on daily basis monitored by institute supervisor. Head of the institute, HODs and Class teachers also monitor the cleanliness and ensure that the cleanliness is maintained in the class rooms. 5. IT facilities: A system administrator is appointed to maintain the IT facilities in the institute. In case of major issues of maintenance vendors are hired for maintenance of IT facilities. 6. Electrical, Drinking water coolers, Lift etc.: Institute has employed technicians for up keeping and maintenance of electrical and water drinking facility. Institute has also appointed housekeeping staff to maintain the gardens. 7. CCTV, Security etc: To maintain

internet connectivity and CCTV security system, network and system administration team is appointed.LCD projectors, EPBX system, air conditioners are maintained with the help of external agencies. Security staff including ladies guards under a security supervisor is employed to safe guard the whole premises.

https://jspmbsiotr.edu.in/naac/2019-20/naac_aqar

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Academic Merit Scholarship	5	60000
Financial Support from Other Sources			
a) National	All types of Scholarships from central and State Government.	1365	76178572
b)International	NIL	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Microsoft certification program for BE students on IOT with Python	16/09/2019	18	Knowledge Solution Pvt Ltd, ATS technologies , Amrita Karambelkar, 8793303600
Live Webinar - Jobs Associated Skills	25/04/2020	20	Skill Edge, Vrushabh Waral, Skill Advisor - Business Development
Webinar on Soft Skills and Digital Marketing	18/05/2020	50	KVCH, HR
Zensar ESD Softskills, Aptitude, Lifeskills, Technical training like core java, PLSQL	09/12/2019	20	Zensar Technologies, Kharadi, Pune
Goal Setting and Planning Workshop	15/04/2020	350	EvolvingX, Amol Nitve, CEO Founder Evoling X
Webinar on Skill Development and Job	07/05/2020	20	SNJ Academy Mr. Anand Joshi,MD

Opportunities in MEP domain			
Webinar on Leadership Skill	17/06/2020	51	Expert, Kapil Relon , Coach, Educator
FUEL Two day aptitude training	26/01/2020	60	FUEL, Pune, 9890067320
Aptitude and Soft Skills Training	04/04/2020	78	FUEL, Keptan Deshpande, CEO
A workshop on basics of IOT and Embedded system	10/03/2020	56	IETE Pune Centre, Mb -7057150817

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	BYJU S Seminar on G RE/CAT/GMAT/ UPSC /GATE and Up skilling courses cert ifications programs	155	0	18	15
2019	Carrier counselling at Barclays Country head	0	160	0	75
2019	IISER oraganised by Aspiring mInds	0	280	0	225
2020	Career guidance session on Capgemini cracking skills by	0	200	0	150
2020	Employabil ity Skills Training	0	77	0	50
2020	Career Guidance session by Jetking Expert	0	20	0	13

2019	Webinar on Skill Development and Job Opportunities in MEP domain	0	170	0	155
2020	Career counseling session by Training and placement officer _ TE Stdudents	0	160	0	45
2019	Webinar on Higher education and career opportunities in US, Canada, UK, etc.	35	0	5	4
2019	Career councelling and Guidance on Competitive Exam	82	110	0	63
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Capgemini, Pune	55	9	Arus Technology, Pune	1	1
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	3	Bhivarabai Sawant	IT	Symbiosis, Pune, and	PGDBM, and MBA

2020	5	Bhivarabai Sawant Institute of Technology, Pune -	Computer	MIT, Pune, JSPM's Bhivarabai Sawnt Institute of Technology and Research, Pune, VIT, pune, New horizon college of Engineering, Pune, Symbiosis centre for Distance learning, Pune	ME. M. Tech, PG DIP
2020	1	Bhivarabai Sawant Institute of Technology, Pune -	Electrical	Kautilya Institute Of Management And Research	MBA
2020	1	Bhivarabai Sawant Institute of Technology, Pune -	Electrical	School Of Energy Studies , Savitribai Phule Pune University	M tech
2020	5	Bhivarabai Sawant Institute of Technology, Pune -	Mechanical	KMIR, Wagholi Pune	MBA, M Tech

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

Items	Number of students selected/ qualifying
GATE	12
GMAT	1
GRE	1
TOFEL	2
Civil Services	1
Any Other	1

Activity	Level	Number of Participants
ITSA formation Oath Ceremony	Institute level	25
Teachers day	Institute level	525
Freshers party	Institute level	360
E waste management	Institute level	125
Oath Taking Ceremony	Institute level	60
One Minute Show	Institute level	75
Poetry Competition	Institute level	43
Nail Art	Institute level	50
Mehendi Competition	Institute level	66
Rangoli Competition	Institute level	38

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	7th west zone shooting championship	National	1	0	DSE15182164	Surlikar Vishwajeet Vivek
2019	XXIX All India Shooting Championship	National	1	0	DSE15182164	Surlikar Vishwajeet Vivek
2020	24th CAPT S.J. EZEKIEL MEMORABLE maHARASHTRA STATE SHOOTING CHAMPIONSHIP	National	1	0	DSE15182164	Surlikar Vishwajeet Vivek

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

Various Students council and academic and administrative bodies exist in the institution which are as listed follows • Institute Student Council • Indian Society for Technical Education student forum, • Institute of Electronics and Telecommunication Engineering forum • Institute of Electrical and Electronics

Engineers forum, • JSPM's Bhivarabai Sawant Institute of Technology and Research Alumni Association • Electronics and Telecommunication Engineering Students Association • Computer Engineering Students Association • Mechanical Engineering Students Association • Information Technology Students Association • Electrical Engineering Students Association Institute Student Council The composition is as follows: ? General Secretary ? Cultural Secretary ? Sports Secretary This council plays very important role in organization of various co-curricular, extracurricular and cultural activities in the institutes. It is a team work of students which gives them platform to inculcate cognitive skill sets which are very much needed when they start pursuing their career of their choice. Student's forum of Professional bodies Student's forums of professional bodies have the student's representation. The forums focus on the Promotion of activities related to academics and skill enhancement programmes in collaboration with the respective professional bodies Alumni Association The alumni association of BSIOTR is registered with the charity commissioner office. The executive Committee of the alumni association comprises of present students and alumni as its members. These members play very important role of initiating, maintaining and renewing communication with the BSIOTR alumnus. One of the critical elements of relations is networking. A strong and healthy relationship with the alumni and the institute helps in providing newer avenue for growth across various sectors for the students who are pursuing their studies in the institute. Alumni meets in the institute brings together the alumni which is an emotional moment. Department Level students Associations These associations are fully represented by the students guided by a faculty member. These associations take initiative for promotion of activities related to academics, skill enhancement programmes co-curricular and extra-curricular activities. Students are encouraged to take decisions, plan and execute the programs to develop decision making and leadership skills.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes institution has registered Alumni Association. The Alumni Association of BSIOTR was established earlier and registered with the charity commissioner office in August 2017(MAHA/1097/2017/Pune). The executive committee of the alumni association comprises of present student and alumni as its members along with other members. These members play very important role of initiating, maintaining and renewing communication with the BSIOTR alumnus. One of the critical elements of relations is Networking. As BSIOTR chart its upward climb rapidly, a strong and healthy relationship with the alumni and the industry helps in providing newer avenue for growth across various sectors for the students. The alumni of the institute have been contributing in different activities as listed below • Guest lecture on industry work culture and skill sets requirements. • As resource persons for workshops, seminars on recent trends in technology. • Placement assistance • Internships • Industrial Visits • Sponsored projects.

5.4.2 – No. of enrolled Alumni:

739

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

165500

5.4.4 – Meetings/activities organized by Alumni Association :

1. Seminar on Entrepreneurship Development. 2. Guest lecture on Industry skill set requirements. 3. Assistance for Industrial visits. 4. Guest lecture on

preparation for higher studies and competitive examinations. 5. Seminar on carrier options and skill set requirement. 6. Seminar on how to crack interviews. 7. Guest lecture on upcoming trends in IT sector. 8. Alumni Meet on 28.09.2019

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

Management gives generous freedom and flexibility to the Principal to lead all the academic activities of the college.IQAC and College Development Committee and other statutory Committees continuously work on quality improvement. Various committees are constituted and responsibilities are assigned to them. Committee Chairman and members of the committee report to the principal and IQAC about the planning and implementation of the decisions made from time to time. The Administrative and academic duties/activities are controlled by the Principal of the Institution. Head of the department works under the guidance of the Principal and Internal Quality Assurance Cell. The Heads of the Department are given specific duties and responsibilities to attend the day to day routine work. Every faculty member is involved in the various academic and administrative or other statutory and non-statutory committees. Internal Quality Assurance Cell monitors the academic and administrative activities. Mentorship is introduced in all the departments. Practice No:1 Gap Identification in curriculum and implementation of bridge courses/content The power of identification of gaps in the curriculum is decentralized and it is assigned to the module coordinator. The subjects from first year to final year are grouped into different modules. A senior teacher is appointed as module coordinator of a module relevant to his expertise. In a department subjects may be grouped into 3-5 modules and each module is headed by respective module coordinator. So for particular module there will be a team of 3-4 teachers under each module who are entrusted with the participative power to identify the gaps and suggest the content/activities to be implemented so the attainment of program outcomes is satisfactory. Practice No:2 Skill Development through Training and Placement: The institute has Training and Placement Cell headed by dedicated Training and Placement Officer. A teacher from every department is appointed as Training and Placement Coordinator (TPC).Few students are also nominated as volunteers to extend an helping hand in the various activities of the Training and Placement Cell. The power of planning and execution of training activities is delegated to the team of TPO, TPCs and student volunteers. The technical skill development programs are decided in consultation with module coordinators. The soft skill development programs are also implemented by TPO in collaboration with industries. The Training and Placement Cell has MoU with many industries who are partnering with institute in conducting various training programs, internships, industry sponsored projects etc. The power of administration of all activities given entrusted to TPO, who reports finally to the principal.

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

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Teaching and Learning	The institution has taken initiatives to shift learning from traditional

		"teacher centric" to the "student centric" approach. Following are some of the efforts been taken to make learning more student- centric:- Experiential learning:- For technical level and cognitive level learning internship programs, hands on training, industrial training, sponsored projects industrial visits, field trips. Various technical events like model making, robot making, circuit-designing, 3D-sculpt making, etc. are arranged. Paper presentation, mini- projects, project, and poster-making Competitions are organized for the students to promote participative learning. Participative learning: Students are recurrently motivated to participate in curricular, co- curricular and extracurricular activities so that they become industry ready confident candidates and an amalgam of knowledge and persona. Brainstorming sessions, Group Discussions, Paper presentation, Project competitions, Case studies, Industry visits, multiple choice questions are used for teaching and assessment.
	Examination and Evaluation	The examination and evaluation is adopted taking into consideration the Blooms Taxonomy learning/level of attainment. For attainment levels from 1-4 fixed hour internal examination which includes CIE and Semester End Examination (SEE) are adopted. The assessment tools used in the institute include the following. • Unit wise course test • Unit wise assignments • Problems solving sessions • Presentations • Competitions • Role plays • Quiz competitions • Open book examination For attainment levels from 4-6 as per Blooms Taxonomy the following tools are used to teach and assess professional outcomes and higher-order cognitive abilities/attainments. • Course Projects • Project – based learning • MOOCs • Mini/Minor Projects • Final year projects • Internships • Hands on Training • Industrial visits
	Research and Development	The various departments in the institute have well equipped laboratories which cater to the needs of the faculty and students for execution of their projects and research work. Adequate number of e-journals, prineted journals is made

	available for literature review for research. A dedicated Research Academic Coordinator (RAC) at the level of professor is appointed in the institution. The Research Cell seminars/workshops are organized periodically on various topics namely Research Methodologies, Publications, Patenting, IPR etc
Library, ICT and Physical Infrastructure / Instrumentation	The institution has a central library stacked with good number of text books, reference books, e-books, e-journals, printed journals, seminar report, project reports, and competitive examination related books. All class rooms are ICT enable with LCD projectors. Every department has one smart class room provided with intelligent interactive board which is ICT enabled. MOODLE is being extensively used by teacher to teach and assess the students. he physical infrastructure like academic area, administrative area and other amenities as per the AICTE norms.
Human Resource Management	The human resource is the institute include Academic and administrative staff which includes principal, teaching staff, office staff, laboratory and library staff and attendants. For human resource management in the institutes code of conduct, policies, rules and regulations are framed which are binding on all the employees and management people. Governing body, College Development Cell, IQAC etc are responsible for administration of the academic and overall activities of the institution. Principal is head of the human resources in the institution. Principal is supposed to administer is responsibilities and duties with the help of the various statutory bodies constituted in the institute.
Industry Interaction / Collaboration	Institution and departments have collaboration with core as well as IT industries. These industries are helping/partnering the institute in the various activities as listed below. • Organizing Workshops, conferences and symposia with joint participation of the faculty and the industries. • Content delivery by engineers from industry. • Visits of staff members to various industry • Joint research programmes and field studies • Visits

	of industry executives and practicing engineers to the Institute for seeing research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences. • Projects/dissertation work in industries under joint guidance of the faculty and experts from industry. • RD Laboratories sponsored by industries at the Institute. • Scholarships/fellowships instituted by industries at the Institute for students. • Practical training of students in industries.
Admission of Students	Total sanctioned intake for UG is 420 and 48 for PG. Admissions for UG and PG are done as per the guidelines and regulations of the Admission Regulating Authority of Government of Maharashtra. The reservations are as per Government rules. The qualifying exam is HSC with minimum 50 for open category candidates and 45 for reserved category candidates.MHT-CET entrance exam non-zero score is mandatory for candidates seeking admission in Engineering and Technology. Management Level seats are filled as per the ARA guidelines.
Curriculum Development	The institution is affiliated to Savitribai Phule Pune University and therefore implements the syllabus prescribed by it. Even though the university recommended syllabus is framed through a well defined process, the institution at its level identifies gaps in the syllabus, if any and plans activities/training programs, content delivery by industry experts. The program outcomes, competencies expected, performance indices are taken into consideration in curriculum development so that the technical skills and cognitive skills are imparted to the students in a balanced way. Therefore the institution has adopted module coordinator system. A senior teacher will be coordinator of 3-4 subjects which are grouped into a module. This senior teacher and other subject teacher decided the extra contents to be delivered in additional to the content of the prescribed syllabus and also they recommend the various assessment tools to assess the attainment of cognitive skills.

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

E-governace area	Details
Planning and Development	Microsoft campus agreement for Dream spark professional edition, windows, visual studio , MSDN Academic alliance , MS office professional, CAL , SCCM
Administration	Auto lib Version10
Finance and Accounts	MS office professional Tally ERP 9
Student Admission and Support	Microsoft campus agreement for Dream spark professional edition, windows, , MSDN Academic allianze , MS office professional, DTE website
Examination	Modular Object Oriented Dynamic Learning Environment (MOODLE) and Savitribai Phule University, Pune Webportal

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr.Y.S.Angal	One Week Faculty Development Program on "ARDUINO" In Association with ISTE Student Chapter And Spoken Tutorial, IIT Bombay organised byJSPM'S, Rajarshi Shahu College of Engineering, Tathawade, Pune	NIL	500
2019	Mrs. Meenakshi Annamalai	Climbing the Ladder of Education System Through Innovation E-Learning Tools	NIL	500
2019	Ms.Rupali Somnath Rakibe	Climbing the Ladder of Education System Through Innovation E-Learning Tools	NIL	500
2019	Prof. Tushar	A Course on	NIL	500

	Vaman Kafare	Android App Development		
2019	Prof. D.D. Khairnar	Faculty Development Program on Arduino	NIL	500
2020	Prof.S.S.Dubal	Faculty Training Program on "Python 3.4.3"	NIL	500
2020	Prof. Prajakta J. Katkar	One Week Faculty Development Program on "ARDUINO	NIL	500
2020	V.G. PURANIK	BOSS LINUX 3.4.2 Operating System	NIL	500
2020	BHOSALE D.S.	STTP on METLAB based Teaching Learning in Mathematics, Scirence and Engineering	NIL	500
2020	Dr. Anil Wanare	Introduction to Forensic Science and Digital Cyber Forensics	NIL	300
		View File		

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	faculty development training programme on "Java Programming"	NA	07/06/2019	17/06/2019	12	0
2020	Two days workshop on Data Science using Python	NA	03/01/2020	31/01/2020	8	0

2019	One day workshop on profess ional ethics and moral value	One day workshop on profess ional ethics and moral value	18/08/2019	18/08/2019	67	8
2019	Training Program on Mechanical and Electrical maintenanc e of Equipment	Training Program on Mechanical and Electrical maintenanc e of Equipment	12/06/2019	13/06/2019	20	6
2019	Hands on training on Applica tion of ERP and Tally softaware	Hands on training on Applica tion of ERP and Tally softaware	12/12/2019	12/12/2019	2	5
2019	One week FDP on Teaching M ethodology and course file prepa ration	NA	11/06/2019	15/06/2019	107	0

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP On NAAC/NBA Accreditation process	105	03/12/2019	07/12/2019	5
FDP on Signal, Image Video processing: A Practical Approach	1	26/05/2020	30/05/2020	5
FDP ON HTML	1	25/05/2020	30/05/2020	5
FDP on " LINUX " in association	1	21/05/2020	25/05/2020	5
Two weeks FDP on "Prayo? – Experiments on	1	18/05/2020	25/05/2020	10

click" - Usin? Virtual Labs				
FDP on Python 3.4.3	1	26/04/2020	30/04/2020	5
webinar on "Native cloud AWS-Amazon Web Services"	1	16/05/2020	16/05/2020	1
Webinar on Goal based financial investment importance of planning	1	16/05/2020	16/05/2020	1
Webinar on 5G Communication of next generation organized by ISTE	1	14/05/2020	14/05/2020	1
Workshop on Wired and Wireless Network simulation using NS-2	1	09/05/2020	10/05/2020	2
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
125	125	95	95

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Free accommodation for supporting staff in the campus. 2. Revenue generated by staff through testing, consultancy, value added courses etc, is distributed 100 percent to the staff 3. Medical leave, maternity leave, Vacation leave, Sabbatical leave and study leave facilities are available. 4. safe drinking water through central RO plant. 5. Jayawant Multistate Cooperative Bank, owned by JSPM management	1. Free accommodation for supporting staff in the campus. 2. Revenue generated by staff through testing, consultancy, value added courses etc, is distributed 100 percent to the staff 3. Medical leave, maternity leave, Vacation leave, Sabbatical leave and study leave facilities are available. 4. safe drinking water through central RO plant. 5. Jayawant Multistate Cooperative Bank, owned by JSPM management	Group Insurance, Cultural club, medical check up, Yoga club, Earn and Learn Scheme, Govt and Management Scholarships schemes, Book Bank, Student welfare cell, , indoor out door sports, buses, well equipped gym.

provides loan for needy staff. 6. Financial Support to attend conferences, workshops, Seminars and FDP to staff in their area of specialization. 7. PF and Gratuity for all faculty members and non- teaching staff. 8. Group insurance for all teaching and non- teaching staff. 9.Subsidized and Free transport for teaching staff and non -teaching staff 10. YOGA club, under which different activities and stress management sessions are organized . 11. Good canteen facility.	provides loan for needy staff. 6. Financial Support to attend conferences, workshops, Seminars and FDP to staff in their area of specialization. 7. PF and Gratuity for all faculty members and non- teaching staff. 8. Group insurance for all teaching and non- teaching staff. 9.Subsidized and Free transport for teaching staff and non -teaching staff 10. YOGA club, under which different activities and stress management sessions are organized . 11. Good canteen facility.

6.4 – Financial Management and Resource Mobilization

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

The institute has a mechanism for internal and external audit. The institute has its own internal audit mechanism where internal audit is an ongoing continuous process in addition to the external auditors to verify and certify the entire Income and Expenditure and the Capital Expenditure of the Institute each year. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Likewise an external audit is also carried out on quarterly basis. The institutional accounts are audited regularly by both Internal and statutory audits. So far there have been no major findings / objections. Minor errors of omissions and commissions when pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Funding by Industries and Management	1533952	To motivate research and innovation culture in Institute

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6.4.3 – Total corpus fund generated

272.42

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority

Academic	Yes	NAAC	Yes	JSPMs-ARQAC - Academic Research and Quality Assessment Cell IQAC, AMC
Administrative	Yes	Yes	Yes	JSPMs-ARQAC - Academic Research and Quality Assessment Cell , IQAC-,AMC

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

Parents and Teachers Meeting in Department- To interact with paraments and get feedback, suggestions on teaching learning process and facilities Community approach activity -To organise NSS and social activities. Campus drive and Industrial Visits- To help in arrangement of campus drives and Industrial Visits. Motivational Seminars by parents- To educate the students regarding their responsibilities as a student and as a citizen

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

Following Development programmers for support staff are conducted/organized 1 Conducted One day orientation programme on "Professional and Moral ethics" for 24 office staff and laboratory technical assistants on 30.06.2019, by Dr.T.K.Nagaraj, Principal. 2 Organized One day awareness programme on "Cleanliness and behavioural aspects" for 13 class IV staff on 28.07.2019 by Prof.P.V.Jatti. IQAC coordinator 3 Arrange Two days Training programme on "Laboratory management "for 8 laboratory technicians on 25.10.2019 by Dr.Praveen Kachare, HOD, Mechanical Department 4 Organized Two days Training programme on "Tally and accounting" for two office staff on 10.05.2020 by Prashant Londhe

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

1.MoUs with Industries for Academics assistance. 2.Creation of new sports facility for indoor and outdoor games. 3.Applied National Board of Accreditation for three programs, NBA Audit. 4.Increase in Internet Bandwidth

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	FDP on "Introduction of Blooms Texonomy,defining of CO and its mapping with	10/06/2019	10/06/2019	10/06/2019	125

	2019	One day workhop on "Modern Teaching Met hodologies	13/06/2019	13/06/2019	13/06/2019	125
	2020	FDP on "Effective I mplementatio n of Curriculum	08/01/2020	08/01/2020	08/01/2020	125
	2019	Faculty Development Training program "Java Programming"	07/06/2019	07/06/2019	17/06/2019	12
	2019	Microsoft Certificatio n Program on"IOT with Python" for students	16/07/2019	16/06/2019	19/06/2019	18
	2020	Zensor ESD Soft skill ,aptitude, life skill and Technical Training on "Core Java, TLSQL" for students	09/01/2020	02/01/2020	02/01/2020	20
	2020	Workshop on "Basics of IOT and Embedded System in association with IETE ,Pune	10/03/2020	10/03/2020	12/03/2020	56
	2020	Workshop on "Android Based Automation" for students	12/03/2020	12/03/2020	14/03/2020	40
	2020	One day seminar on "Designing computer networks "for students	25/05/2020	25/05/2020	25/05/2020	27
	2020	Webinar on	05/05/2020	05/05/2020	05/08/2020	120

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"Campus to Corporate life" for students				

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
A speech on "Good Food Good Mind" on International Women's day	08/03/2019	08/03/2019	120	0
A Guest Lecture on " Work life balance"	05/11/2019	05/11/2019	56	28
A seminar on " Women Entrepreneurs"	30/11/2019	30/12/2019	62	10
A seminar on " Abuse and Addiction"	20/07/2020	20/07/2020	45	0
A Speech on " Stress Management"	10/01/2020	10/01/2020	50	0

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

Percentage of power requirement of the University met by the renewable energy sources
5 percent

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	Yes	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0

	Any other similar facility		Yes			0	

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadva ntages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	0	11/04/2 020	1	Matdar Janjagrut i Melava	Respons ibility of citizen as voter	53
2019	1	0	31/05/2 020	1	Respons ibility of citizen as voter	Menace of drug addiction and bad habits	33
2019	0	1	10/06/2 019	1	Tree Pl antation	Environ mental pr otection	30
2019	0	1	21/06/2 020	1	Interna tional Yoga Day	Importa nce and benefits of Yoga	48
2019	0	1	28/06/2 019	1	Swachha Vari Swasthha Vari Nirmal Vari Harit Vari : Loni Kalbhor	Cleanli ness drive and hygiene	32
2019	0	1	25/07/2 019	1	Road Safety Abhiyan	Traffic rules and their benefits	27
2019	1	0	01/08/2 019	1	Swachha Va Swastha Bharat Abhiyan P andhrwada (Cleanlin ess Oath)	Cleanli ness drive and hygiene	32
2019	1	0	06/08/2 019	1	Door to Door camp aigning	Ill Effects of open d	52

| 2019 | 0 | 1 | 10/08/2019 | 1 | Intensive cleaning of Maher Orphan Ashram at | Cleanliness drive and hygiene | 52 |
| 2019 | 0 | 1 | 14/08/2019 | 1 | Mula Muta:River Cleanliness Program under "Swachtta Hich Seva" | Cleanliness drive and hygiene | 44 |

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

Title	Date of publication	Follow up(max 100 words)
Hand Book for Code of Conduct of Students	15/06/2019	The conduct of the students is observed from time to time by HODs of the departments, subject teachers and the principal in classes' rooms, laboratories or in the institute premises. The complaint/misconduct by any student are addressed by respect committees constituted in the institute. These committees interact with students/conduct an enquiry and submit the report to the principal for further actions. It is to mention here that there no misbehaviour or misconduct by any students. Any minor issues related behaviour or misconduct are solved at department level by HODs or teachers to avoid unnecessary embracement to the students.
Hand Book for Code of Conduct of Teachers	15/06/2019	The teacher is supposed conduct themselves in a dignified manner with

everyone in the institute. Their conduct related to academics, laboratory work, co-curricular and extra-curricular activities are monitored by Principal, HODs, Dean and AMC. The conduct of any teacher deviating from the code of conduct is subjected to enquiry and appropriate actions are taken. The performance of all teachers is monitored. The behavior of the staff with students/colleagues in class, labs and in the premises is observed and any deviation brought to the notice of authorities is taken care of by constitution of committee.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Jagtik Tambakhumuktta Divas	31/05/2019	31/05/2019	33
Tree Plantation Preparation	10/06/2019	10/06/2019	28
Swachha Vari Swasthha Vari Nirmal Vari Harit Vari : Loni Kalbhor	28/06/2020	28/06/2020	106
Road Safety Abhiyan	27/07/2019	27/07/2019	55
Swachha Va Swastha Bharat Abhiyan Pandhrwada (Cleanliness Oath)	01/08/2019	15/08/2019	33
Door to Door campaigning in Nyati elyan on Open Defection free, Hygiene	06/08/2019	06/08/2019	52
Intensive cleaning of Maher Orphan Ashram at Bakori	13/08/2019	13/08/2019	53
Rally of cleanliness and	14/08/2019	14/08/2019	42

hygiene.			
Matdar Janjagruti Melava	11/04/2019	11/04/2019	70
Mula Muta:River Cleanliness Program under "Swachtta Hich Seva"	22/08/2019	22/08/2019	45

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

Organic Waste compost Pit for Solid waste management. The manure is used for tree and plants in the campus
Waste Water Treatment Plant to treat waste water from Academic, Administrative and hostel buildings and this treated water used for gardening purpose.
Management of E-waste from department . Which removed Harmful components from the premises.
Rain water harvesting structures for Ground Water Recharging.
Prohibition of use of plastic bags to Minimization of Environmental degradation
Plantation of more trees for Creation of green campus and pleasant environment

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practices No 1 Conduction of Faculty Development Programs (FDP) 1. Goal The Institute organizes Faculty Development Programs for promoting quality in faculty members. FDPs are arranged and conducted with an aim to improvise personal, profession and holistic development of faculty. 2. Objectives of the Practice: • To develop effective curriculum. • To develop Teaching Learning Material. • To develop digital content for ICT enabled learning. • To enhance effectiveness in content designing and its delivery. • To enhance instructional skills of the faculty. • To update knowledge and inculcate professional ethics. • To promote technical expertise. 3. The Context The research shows that an inspiring and informed teacher is the most important factor influencing student achievement, so it is critical to pay close attention to how we train and support both new and experienced educators. Support for new teachers is often uneven and inadequate. Mentoring and coaching from veteran colleagues is important to the successful development of a new teacher. FDPs create opportunities for novice teachers to learn from best practices, analyze and reflect on Their teaching. The context for undertaking this type of faculty development is our realization that observable teaching actions and skills are central to effective teaching, and fundamental to how teaching is perceived by students. These actions and skills have been identified by student feedback, a staple practice in our institution. Building on this information, we thought of enhancing the effectiveness of course delivery through workshops, seminars and common platform discussions and consultations that concentrate on particular teaching techniques and skills. We built the program on the assumption that once the novice instructors are aware of any discrepancies between their professed aims and their teaching practice, they would then take steps to minimize that discrepancy. 4. The Practice Faculty Development program is conducted every year for all faculty or a selected number of faculty as per need. The sessions during FDP addressing various domains are conducted by in-house senior faculty and invited experts. The faculty members are grouped into their respective domains headed by a module coordinator who will be responsible to monitor and guide the proceedings. Recently in view of outcome based

education stress is laid on formulation of topic learning outcomes, course outcomes, programme Specific outcome and its linkage with programme outcomes. Every faculty member creates his own course file with all outcomes and objectives clearly mentioned, the faculty members also plan the sessions minute to minute so as to have uniformity across faculty members teaching the same subjects. Encouragement is given to faculty members to indentify real life problems and recent issues of national and international importance so that the students get benefit of connecting wherever is learnt in class to real life. 5. Evidence of Success The success can be enumerated in two areas. The first is related to new faculty joining the institute without any teaching experience, this faculty receives in depth inputs as what is to be conducted during the class along with ready use digital material and valuable resource contributed by senior faculty members. To illustrate the benefit the new faculty members were good at developing digital content. A blend of the senior faculty with modern usage of the digital content created session material which is useful for the tech- savvy students of day. For the senior faculty member it was an experience of learning, unlearning and re-learning considering the fast changes in the technical field. The students feedback have indicated marked improvement in faculty performance as the involvement of students is enhanced due to meticulous session plans prepared in FDP. The real life examples were also appreciated by students and there has been marked enthusiasm in participating various competitions that enhance learning like Go-Cart by mechanical engineering students, Smart-India Hackthon by computer and IT and electronic and Telecommunication students and many more. 6. Constraints and limitations: As such there are no Constraints and limitations related to FDP. Best Practices No 2 Effective teaching-learning process 1. Goals of the Practice To develop, implement and maintain effective teaching-learning process. 2. Objectives of the Practice The objectives/intended outcomes of this best practice are: • To assist in curriculum planning • To ensure effective delivery of contents across all the courses • To improve students learning experiences and outcomes • To provide staff with information in regard to professional development needs 3. The Context Quality teaching is defined in terms of effective pedagogical techniques to produce learning outcomes for students. It involves several dimensions, including the effective design of curriculum and course content, avariety of learning contexts (including guided independent study, project-based learning, collaborative learning, experimentation, etc.), soliciting and using feedback, and effective assessment of learning outcomes. Institutions need to ensure that the education they offer meets the expectations of students and the requirements of employers, both today and for the future. One of the most challenging paradoxes in the world of academics is the fact that while innovativeness in teaching is largely agreed upon as the most desired aspect of teaching, it is also equally a fact that innovativeness as a tangible teaching component cannot be defined or promoted. To meet the challenge of promoting innovativeness of teachers the best way was found to be insisting on documentation of individual teaching plans/lessons which in turn help to identify the most creative methodologies /approaches that can be shared with others who are not spontaneously creative. Under the system of standardized procedures the pedagogical tools adopted by most creative teachers get to be systematically documented and this can work as frame of reference for teachers who are not spontaneously creative. Senior faculty or sometimes even the youngest faculty coming from diverse backgrounds like industry etc., explore alternative pedagogies or adapt student support to varied student profiles and pedagogical competencies. Their alternative teaching methodologies can serve as training models to other teachers. The individual performance of each faculty member is a crucial factor in quality teaching. The unit plan designed by the faculty becomes the frame of reference to make the teacher accountable for the status of syllabus completion. In the context of teachers moving towards greener pastures / IT Sectors, the need for adopting standardized procedures

was deeply felt as transition becomes smooth when there is a switch of teachers as the former teacher's records becomes a ready reference for the teachers. Through constant checks of teacher's documents which include their teaching plans, laboratory plans, academic records, course files, etc., the institution finds scope to identify areas of deficiencies and also take up appropriate FDP programs for the betterment of their professional effectiveness and also for the quality enhancement of the academic program. 4. The Practice The procedures which constitute the implementation of the practice are as follows: The institution has a meticulously organized and clearly planned teaching, learning and evaluation schedule, well integrated into the total institutional scheme. Each faculty of the department has an individually drafted teaching and laboratory plan, which reflects how each unit and experiment is taught by indicating the time frame along with a mention of methodologies/ references used and modes of evaluation practiced. Self – appraisals, submitted by the individual teachers gives a clear indication of the teachers' contributions in various categories - academic, administrative and extension activities. The Academic Monitoring Committee ensures the effectiveness of the process by fortnightly check of the attendance of students, academic records, Self appraisals and syllabus completion statements submitted by the faculty. The effectiveness is further ensured through cross verification by the Head of the institution. The teaching- learning process is continuously reviewed by the AMC and Principal by taking into account the feedback given by the students. Each department timely reports on the activities comprising academic activities, research and extension activities, innovations in teaching/learning, publications, staff and student achievements, extra and co- curricular activities to the Principal. To ensure quality sustenance and enhancement the college periodically conducts the performance audit of the departments which includes course review, Review of Teaching – learning methodologies, Result analysis, Research output, Faculty Development Programs attended/conducted and Extension activities, Co-curricular and extra-curricular activities conducted during the year. Departmental meetings are conducted once a month and whenever needed. The minutes are documented and signed by the HoD. Result analysis is submitted by the individual faculty. The result analysis of each department is submitted to the Principal after each semester. Monthly Syllabus coverage report is also periodically submitted by the individual teachers in order to ensure timely completion of the syllabus. Feedback is taken from the students twice in a semester for teacher evaluation. Thus the regulatory mechanism of timely checks on teacher quality has the double advantage of improving not only teacher but also student performances. 5. Evidence of Success The evidence of success is also seen in achieving the targets/benchmarks/distinctions mentioned below: • Availability of increased options with diversification of courses • Industry relevant curriculum with thrust on employability skills. • Better placement records. • Word of mouth publicity through successful Alumni. • Enhanced reputation among academicians networked through regular conduct of seminars/guest •

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
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7.3 – Institutional Distinctiveness

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

Student Centric Learning Environment for Outcome Based Education Vision, priority and thrust of the institute is to impart Outcome based education which has gained a vital importance due to globalization in every sector. Globalization has created highly competitive environment in every field which

has now emphasized the importance of multi-skilled human resources to cope up with the competitions. Therefore the graduating engineers from the institute must have technical skills/knowledge but most important ones are the cognitive skills like team building, capacity to work in ever changing work environment, to cope with changes in speed of innovation, creation etc. Therefore the institute adopts the student centric learning environment through effective implementation of curriculum by aligning the assessment tools in line with the competencies and the performance indices so that the program outcomes are achieved. Student Centric Learning Environment through effective CIE is one of the distinctiveness of the institute. Continuous Internal Evaluation Reforms are made from time to time using different assessment tools aligned to POs. The mapping of COs with POs of all courses from first year to final year shows that the attainment of POs ranges from PO1-PO5, partially in some cases. Since the course work in our programs are oriented towards teaching technical knowledge and skills, professional outcomes may not result only from participation of students in a particular class or set of classes. In order to help the students to achieve the higher order abilities and professional skills comprehensive reforms are made in CIE at institute level. The CIE is adopted taking into consideration the Blooms Taxonomy learning/level of attainment as shown in table below. Level Descriptor Level of attainment Assessed Through 1 Remember Recalling from the memory of the previously learned material Fixed Hour Examination(CIESEE) 2 Understanding Explaining ideas or concepts 3 Applying Using the information in another familiar situation 4 Analyzing Breaking information into the part to explore understandings and relationships Course Projects Mini Projects Minor Projects Capstone Project 5 Evaluating Justifying a decision or course of action 6 Creating Generating new ideas, products or new ways of viewing things CIE reforms for technical Level attainments(Level 1-4 as per Blooms Taxonomy): For attainment levels from 1-4 fixed hour internal examination which includes CIE and Semester End Examination (SEE) are adopted. The assessment tools used in the institute include the following. • Unit wise course test • Unit wise assignments • Problems solving sessions • Presentations • Competitions • Role plays • Quiz competitions • Open book examination It is ensured to set examination papers/activities in the above mentioned assessment tools aligned with attainment levels from 1-4 by the course teachers. CIE reforms for professional outcomes and higher-order cognitive attainment(Level 4-6 as per Blooms Taxonomy): For attainment levels from 4-6 as per Blooms Taxonomy the following tools are used to teach and assess professional outcomes and higher-order cognitive abilities/attainments. • Course Projects • Project – based learning • MOOCs • Mini/Minor Projects • Final year projects • Internships • Hands on Training • Industrial visits The

Provide the weblink of the institution
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8.Future Plans of Actions for Next Academic Year

To cope with increasing demand for engineers with multidisciplinary skills and competitiveness in technical education sector and the expectations of stakeholder, the institute has worked out an action plan for the next academic year. 1. To initiate the procedure for academic autonomy. 2. Applying for 2(f) and12 (B). 3. NBA certification. 4. To develop networking with international universities. 5. To encourage students to opt for IT skill training programs.. 6. To increase the number of placements through collaborative activities with industries. 7. To plan and execute training programs for students of core branches to make them employable in core as well as IT industries.