



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING
Name of the head of the Institution	Prof. Dr. Kharat Govindrao Ukandrao
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02132264925
Mobile no.	9665172353
Registered Email	principalspcoe09@gmail.com
Alternate Email	gukharat@gmail.com
Address	at- Dumbarwadi Po-Khamundi Tal- Junnar
City/Town	Pune
State/UT	Maharashtra
Pincode	410504

2. Institutional Status																			
Affiliated / Constituent			Affiliated																
Type of Institution			Co-education																
Location			Rural																
Financial Status			private																
Name of the IQAC co-ordinator/Director			Prof. Rahul S. Bansode																
Phone no/Alternate Phone no.			02132239202																
Mobile no.			9970957573																
Registered Email			principalspcoe09@gmail.com																
Alternate Email			rahulbansodespcoe@gmail.com																
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)			http://spcoe.in/wp-content/uploads/2020/03/SPCOE_AQAR_2018-19.pdf																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			http://spcoe.in/academic-calendar/																
5. Accreditation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accreditation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.31</td> <td>2018</td> <td>30-Nov-2018</td> <td>29-Nov-2023</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accreditation	Validity		Period From	Period To	1	B	2.31	2018	30-Nov-2018	29-Nov-2023
Cycle	Grade	CGPA	Year of Accreditation	Validity															
				Period From	Period To														
1	B	2.31	2018	30-Nov-2018	29-Nov-2023														
6. Date of Establishment of IQAC			01-Jun-2017																
7. Internal Quality Assurance System																			
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td>Organised Workshop on Artificial Intelligence</td> <td>10-Feb-2020 2</td> <td>72</td> </tr> </tbody> </table>						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	Organised Workshop on Artificial Intelligence	10-Feb-2020 2	72					
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries																	
Organised Workshop on Artificial Intelligence	10-Feb-2020 2	72																	

Microsoft Office Skill Enhancement and Capacity Building	08-Nov-2020 2	35
Organised Workshop on Machine Learning using Python	31-Dec-2019 4	73
Organised Workshop on UI Development Tools	12-Mar-2020 2	85
Organised Workshop on Nirbhay Kanya	17-Jan-2020 1	45
Runed the Karmaveer Bhaurao Patil Earn & Learn Scheme	01-Jul-2020 274	27
Participation in National Programme on Technology Enhanced Learning (NPTEL)	29-Jul-2020 273	224
Funding for educational & Lab equipments under Quality Improvement program of Savitribai Phule Pune University, Pune	14-Sep-2019 1	3
Workshop on Instrumentation And Control	13-Jan-2020 6	68
Workshop on Android Application Development	20-Jan-2020 6	63
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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
No Data Entered/Not Applicable!!!				
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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 :	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes

Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)	
Conduction of number of workshop and seminars on recent technology.	
Due to covid-19 pandemic situation staff are working from home and in spare time attended number of webinars to improve technical knowledge.	
Improvement in results.	
Provision of free access to coursera, Udemy and NPTEL for students and faculties to upgrade their skills.	
Increase in PhD Registrations.	
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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
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Plan of Action	Achivements/Outcomes
To conduct Workshop on Artificial Intelligence.	Workshop on Artificial Intelligence Conducted.
To conduct Workshop on Skill Enhancement and Capacity Building for the staff members.	Workshop on Skill Enhancement and Capacity Building for the staff members conducted in the month of November.
To organize Workshop on Machine Learning using Python	Workshop on Machine Learning using Python is conducted.
To organise Youth festival.	Youth festival is organized in the month of February.
To apply for educational Lab equipment funding under Quality Improvement program of Savitribai Phule Pune University, Pune	Received funding for Xerox machine and color printer from Savitribai Phule Pune University, Pune
Remedial coaching	Remedial coaching is conducted in the month of February and March.
To Impart Research Activity and concept of IPR.	Seminar on how to write research paper intellectual property and public policy is conducted in the month of October and September respectively
Career Counseling to the students	A guest lecture on career counseling is conducted for students in the month of

February.

No Files Uploaded !!!

14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	18-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The record of fees collection from students is maintained through ERP software. The library is automated such as transaction of books, search of book, I card, search of research papers in journals etc. Student's database is prepared using ERP Software. Audit report of the institute is prepared through Tally ERP software.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

The institution continuously plans for effective implementation of the curriculum. 1. All departments prepare the academic calendar in accordance with the academic calendar prescribed by the university in each semester 2. As per the syllabus prescribe by university HOD conduct departmental meeting for distribution of teaching load & portfolio. The workshops, seminars, guest lectures and other events are planned according to new technology by observing demand of industries. 3. According to the workload distribution, class and laboratory time tables are prepared. Each faculty member prepare their respective subject course file consisting of personal time table, teaching plan, Question bank, assignment and lab manuals. 4. As per the Instruction received by IQAC, the Academic Monitoring Committee (AMC) and concern HOD evaluates detail course file for effective implementation of curriculum. 5. Faculty member meetings are held every week by the HOD to take academic review and suitable remedial measures are advised if necessary. 6. Each department assigns teacher guardians to all the students in a batch of 8-10 students. They weekly take feedback from students and try to solve their problems by

counseling and keeping record of the university examination marks and extra-curricular activities. 7. Institution encourages and sponsors faculty members to organize and attend faculty development programs (FDPs) various workshops and STTP. 8. At the start of semester students are encouraged to participate in different events, sports, cultural activities. Faculties are encouraged to impart the curriculum through teaching methods such as Project based Learning, concept attainment, outcome based education strategy etc. 9. Internal theory examinations are conducted for theory subjects and mock examination for practical. The slow and advance learners are identified based on their test performance and class room interactions. Customized support is provided to them through additional inputs like extra lectures, individual counseling, with proper assessment in practical session. 10. College is having the authorized NPTEL Local chapter approved by IIT Bombay Students and faculties are encouraged to take advantage of online courses like NPTEL, SWAYAM etc. 11. To meet the need of industries and for research exposure, the institute continuously organizes Conferences, Technical Workshops, Seminars, Soft Skill program and Guest Lectures in the field by well-known personalities from industries, research sectors and respective domain. 12. AMC conducts internal academic assessment in a semester, ensuring achievement of academic outcome. IQAC also conducts Academic and Administrative assessment at the end of every semester to evaluate and ensure quality requirements and provides guidelines to AMC and departments for further improvement of academic quality.

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
NPTEL SWAYAM Online certification course on Industrial Automation and Control	Nil	01/01/2020	68	Employability	Automation control and PLC application.
NPTEL SWAYAM Online certification course on Software Testing	Nil	01/01/2020	24	Employability	Get knowledge of Testing
NPTEL SWAYAM Online certification course on Python for Data Science	Nil	01/01/2020	24	Employability	Enable to enhance the skill in Data Science
NPTEL SWAYAM Online certification course on Programming in C plus	Nil	01/01/2020	46	Employability	develop skill in C plus plus

plus.					
NPTEL SWAYAM Online certi fication course on Programming in Java	Nil	01/01/2020	68	Employability	practical exposer to JAVA
NPTEL SWAYAM Online certi fication course on Data Analytics with Python	Nil	01/01/2020	68	Employability	Python Programming
NPTEL SWAYAM Online certi fication course on Machine Learning, ML	Nil	01/01/2020	46	Employability	Matchine Learning
NPTEL SWAYAM Online certi fication course on Cloud computing.	Nil	01/01/2020	46	Employability	Ability to improve high performance computing.
Workshop on Instrumen tation and Control.	Nil	13/01/2020	6	Employability	Basic knowledge of measurement and different valves.
Workshop on Android Application development	Nil	20/01/2020	6	Employability	Android development and demonstrate knowledge and skills to perform task as a mobile application.
Workshop on Machine learning using python.	Nil	31/01/2020	4	Employability	Data analytics using anaconda and python.
Workshop on Artificial Intelligence	Nil	10/02/2020	2	Employability	Develop profeional skill for data

						analytics using AI.
Workshop on UI development tools	Nil	12/03/2020	2	Employability	User Interface	
NPTEL SWAYAM Online certification course on Embedded System Design with ARM	Nil	01/01/2020	46	Employability	Practical skill improvement in Embedded system design.	
NPTEL SWAYAM Online certification course on Computer Networks and Internet Protocol	Nil	01/01/2020	68	Employability	computer network	
NPTEL SWAYAM Online certification course on Electric Vehicles - Part 1	Nil	01/01/2020	24	Employability	designing of electrical vehicleEmployability	
NPTEL SWAYAM Online certification course on Introduction to internet of things	Nil	01/01/2020	68	Employability	implementa tion of IoT related projects.	
NPTEL SWAYAM Online certification course on Evolution of Air Interface towards 5G	Nil	01/01/2020	46	Employability	Explore to 5G technology	
Workshop on Software Testing (Selenium automation tool)	Nil	11/10/2019	6	Employability	Explore to manual and automation testing	

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	First Year Engineering(Comp,E and TC,Mechanical)	15/06/2019
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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	Electronics and Telecommunication Engineering	15/06/2019
BE	Mechanical Engineering	15/06/2019
BE	Computer Engineering	15/06/2019
ME	VLSI and Embedded System	01/07/2019
ME	Computer Engineering	01/07/2019

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

	Certificate	Diploma Course
Number of Students	175	Nil

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Language and Communication Skill	17/06/2019	190
Yoga Meditation	30/09/2019	123
Aptitude Training Program For BE students	24/06/2019	19
Seminar on Guidance for competitive examination	14/09/2019	48
Seminar on How to write research Paper	15/10/2019	55
Earn and Learn Scheme Earn Learn Scheme	01/08/2019	27
Self Defence workshop for Girls	03/01/2020	78
Nirbhay Kanya Abhiyan	17/01/2020	45
Workshop on Android application Development	20/01/2020	63
Workshop on Software Testing (selenium automation tool)	11/10/2019	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	Electronics and Telecommunication Engineering	8
BE	Computer Engineering	5
BE	Mechanical Engineering	5

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

? Feedback from students, alumni, parents, staff members, and employers is predictively utilized for enhancing the overall development of the Institution. Faculty feedback from the student for the respective course is taken in every semester on various teaching learning aspects and it is analyzed by HOD and corrective measures if any are informed to the respective faculties for further improvements. ? Every year, Institution organizes Alumni Meet by inviting them with the use of Information and Communication technology. They interact with faculty members and students, sharing their knowledge which creates strong bond for getting projects, internships, training, job links etc. Feedback collected from alumni is discussed in departmental meetings and corrective measures are implemented. ? The feedback collected from stakeholders is meticulously analyzed and action is taken accordingly. The major area of concern is to reduce the gap between industry and institute. Employer's feedback is taken during the campus recruitment to enrich the Curriculum and to cover content beyond syllabus for better employment opportunities. Most of the employees stated that the problem analysis and problem solving skill of the student need to be enhanced. The students of our college spend some days with industry to enhance their analytical skills and contribute to the industry. This activity improves their skill of problem identification, analysis of problem and providing technical solution with alternative options. ? Feedback given by the participants during the conferences and workshops is utilized for organizing future programs. Constructive suggestions given by students, alumni, participants in conferences are discussed in the departmental meetings and implemented after the approval from IQAC. ? Parent-teacher meet is organized every semester to analyze the performance of the students and feedback is collected from parents during the meet. ? Feedback from faculties is utilized for syllabus revision and institute development. ? Feedback collected from the staff, alumni, students, parents, and employer is summarized, analyzed and submitted to the BoS chairman during BoS meeting and in the STTP organized for Syllabus revision.

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
ME	(M.E) Electronics & Telecommunication Engineering	24	6	6
ME	(M.E) Computer Engineering	24	9	9
BE	(D.S.E) Mechanical Engineering	33	32	32
BE	(D.S.E) Electronics & Telecommunication Engineering	33	24	23
BE	(D.S.E) Computer Engineering	33	33	33
BE	(F.E) Mechanical Engineering	30	1	1
BE	(F.E) Electronics & Telecommunication Engineering	30	10	10
BE	(F.E) Computer Engineering	30	10	10

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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	190	26	21	6	2

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	Number of smart classrooms	E-resources and techniques used
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29	29	5	9	9	6
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

A mentor system is implemented in the institute. It is a process of developing relation between teachers and students aiming at development of students. About 8-10 students are assigned to one teacher. During first year, as students are fresh from higher secondary school, they are reluctant to express their problems, mentor eases them to tell issues whether personal or academic. As first year subjects are mostly taught by department of first year engineering, those faculties are identified as mentors. Critical cases, if any, are handled by first year coordinator. From second year students move to their concerned departments, departmental faculties are nominated as mentor, who will be monitoring them during next three years. Regular meetings are held between mentor and mentee. The timely and extensive implementation of mentoring generates healthy interaction between students and teachers through counseling. The batch counselors help to solve problems of the students in academics, career advancement, campus/hostel, personal issues etc. The mentee meets the mentors once in a month and observations about mentee e.g. achievements, doubts, fears, grievances etc. are recorded. Based on which, the issues of mentee is forwarded to Head of Department and solved. If required the issues are forwarded to IQAC cell and Principal.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
216	29	1:7

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
36	29	7	3	2

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	NULL	Nill	NULL
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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	632237210	V	07/12/2019	06/02/2020
BE	632261210	V	07/12/2019	06/02/2020
BE	632224510	V	07/12/2019	06/02/2020
BE	632237210	III	05/12/2019	20/02/2020
BE	632261210	III	05/12/2019	20/02/2020
BE	632224510	III	05/12/2019	20/02/2020

BE	632237210	I	02/01/2020	20/02/2020
BE	632261210	I	02/01/2020	20/02/2020
BE	632224510	VII	03/12/2019	28/02/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Institute reforms in Continuous Internal Evaluation system are made in line with SPPU reforms. The evaluation process is reformed time to time in order to fill the gaps in attainment of program outcomes. Institute conducts two tests per semester as well as one preliminary exam per semester. Pre practical exam and internal project demo is conducted per semester. Assignments for each subject are given to the students. Assignments and practical files are continuously assessed. Attendance assessment record of each faculty is maintained by HOD, Academic monitoring committee , IQAC and Principal for internal assessment process.

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

Institute academic calendar is prepared well in advance before the start of semester in accordance with the academic calendar prescribed by Savitribai Phule Pune University. The calendar outlines a schedule for class test, insem examination, conclusion of theory / Practical, extra-curricular and co-curricular activities. The faculty members prepare the lesson plan before commencement of semester according to academic calendar. Teaching plan presents the topic to be covered lecture wise which is approved by head of department. All the activities such as workshops, seminars, guest lectures, industrial visits, sports and cultural activities etc are conducted as per academic calendar. The head of department monitors the progress according to academic calendar of each department periodically.

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)

<http://spcoe.in/cos-and-pos-comp-etc-mech/>

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
632237210	BE	Electronics & Telecommunication	20	20	100%
632261210	BE	Mechanical Engineering	8	8	100%
632224510	BE	Computer Engineering	25	25	100%

[View File](#)

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)

<http://spcoe.in/sss/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	0	Nil	0	0
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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
Seminar on "How to write a research paper".	Mechanical Engineering	15/10/2019
Seminar on Intellectual Property and Public Policy Issues.	Mechanical Engineering	10/09/2019
Four day's State Level Workshop on Machine Learning Using Python	Computer Engineering	31/01/2020
Two day's State Level Workshop on "UI DEVELOPMENT TOOLS"	Computer Engineering	12/03/2020
Two day's State Level Workshop on "Software Testing (Selenium Automation Tool)"	Computer Engineering	11/10/2019
Two day's State Level Workshop on "ARTIFICIAL INTELLIGENCE"	Electronics Telecommunication Engineering	10/02/2020

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
Best College Award in Pune Rural for Academic Year-2018-19	Sharadchandra Pawar College of Engineering, Otur	Board of Students Development, Savitribai Phule Pune University, Pune	03/01/2020	First Rank
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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
Nil	Nil	Nil	Nil	Nil	Nil

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
Nil	Nil

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Electronics Telecommunication Engineering	1	4.40
International	Computer Engineering	11	6.08
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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
Computer Engineering	5
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
Deep and machine learning approaches for anomaly-based intrusion detection of imbalanced network traffic	Y K Sharma, Rokade Monika	IOSR Journal of Engineering (IOSR JEN), ISSN (Online), 2250-3021	2019	6	SPCOE	6
Health Care Patient Monitoring using IoT and Machine	Y K Sharma, Khatal Sunil	IOSR Journal of Engineering (IOSR JEN)-", ISSN (e), 2250-3021	2019	2	SPCOE	2

Learning						
Identifi- cation of Malicious Activity for Network Packet using Deep Learning	Monika D.Rokade, Dr. Yogesh Kumar Sharma	Internat ional Journal of Advanced Science and Technology Vol. 29, No. 9s, (2020), pp. 2324-2331	2020	0	SPCOE	Nill
Empowers And Elevates Farmers And Protect Important Natural Assets In Agricultur e Sector Using AI And Iot	Dr. Suryakant Patil, Rohini Jadhav, Dr. Preeti Patil	INTERNAT IONAL JOURNAL OF SCIENTIFIC TECHNOLOGY RESEARCH VOLUME 9, ISSUE 02, FEBRUARY 2020 ISSN 2277-8616	2020	0	SPCOE	Nill
Analyzing the role of Heart Disease Prediction System using IoT and Machine Learning	Sunil S.Khatal, Dr. Yogesh Kumar Sharma	Internat ional Journal of Advanced Science and Technology Vol. 29, No. 9s, (2020), pp. 2340-2346	2020	1	SPCOE	1
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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
Health Care Patient Monitoring using IoT and Machine Learning	Y K Sharma, S Khatal Sunil	IOSR Journal of Engineerin g (IOSR JEN)-", ISSN (e), 2250-3021	2019	1	2	SPCOE
Deep and machine	Y K Sharma, D	IOSR Journal of	2019	1	6	SPCOE

learning approaches for anomaly-based intrusion detection of imbalanced network traffic	Rokade Monika	Engineering (IOSR JEN), ISSN (Online), 2250-3021				
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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	3	1	51	Nill
Presented papers	5	Nill	Nill	Nill
Resource persons	Nill	Nill	Nill	Nill

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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
Jijamata Aani Swami Vivekanand Jayanti	National service scheme	15	64
Savitribai Phule Jayanti	National service scheme	12	55
Dr.Babasaheb Ambedkar Punyatithi	National service scheme	17	53
AIDS Awareness Programme	National service scheme	14	52
Gandhi Jayanti	National service scheme	19	44
Engineers Day	National service scheme	18	88
Teachers Day	National service scheme	15	71
Anant Chaturdashi	National service scheme	10	54
Tree Plantation and Environment Awareness	National service scheme	21	52
Yoga Day	National service scheme	15	51

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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
Nil	Nil	Nil	Nil
No file uploaded.			

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 activities	Number of students participated in such activities
National service scheme	SPCOE	Swachha Wari	6	66
National service scheme	SPCOE	Niramal Wari	10	70
National service scheme	SPCOE	Spit Free India Moment	12	142
Board of Students Development	Board of Students Development, Savitribai Phule Pune University, Pune	"Nirbhay Kanya Abhiyan"	6	76

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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
0	0	0	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
MOU	Industrial Visit	Pratibha Industries	26/08/2019	26/08/2019	42
MOU	Industrial Training	Pratibha Industries	06/01/2020	08/02/2020	10
Training	Industrial Summer training	DNP PCB Technologies, Badlapur	01/05/2020	02/06/2020	1

Training	Industrial Summer training	Vatsala Enterprises, Thane	29/05/2019	17/06/2019	1
Training	Industrial Summer training	GB Softronics, Nasik	20/06/2019	05/07/2019	2
Training	Industrial Summer training	Colortrak Services, Mumbai	30/05/2019	28/06/2019	5
Training	Industrial Summer training	Vardhan Consulting Engineers, Bihar	15/02/2020	10/04/2020	1
Training	Industrial Summer training	Vardhan Consulting Engineers, Bihar	01/02/2020	01/04/2020	1
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Pratibha Industries	24/07/2019	Industrial Visit and industrial Training	52
Sandesh Rubber Industries	13/02/2020	Industrial Visit and industrial Training	Nill
Balaji Industries	04/03/2020	Industrial Visit and industrial Training	Nill
L D InfoTech Pvt. Ltd., Pune	18/09/2019	Workshop	62
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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
16000000	15778242

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh)	Existing

during the current year	
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Vridhhi	Partially	2.0	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	8555	2552997	Nill	Nill	8555	2552997
Reference Books	1775	852000	Nill	Nill	1775	852000
Digital Database	547	Nill	Nill	Nill	547	Nill
CD & Video	510	25500	Nill	Nill	510	25500
Library Automation	1	92400	Nill	Nill	1	92400
Weeding (hard & soft)	35	975	Nill	Nill	35	975
Journals	40028	95070	Nill	Nill	40028	95070
e-Books	25000600	19470	Nill	Nill	25000600	19470
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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
Nil	Nil	Nil	Nill
No file uploaded.			

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	240	8	2	1	1	1	3	50	0
Added	1	0	0	0	0	0	0	5	0
Total	241	8	2	1	1	1	3	55	0

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

55 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
spcoe media center	http://www.spcoe.in/media_center

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 incurred on maintenance of physical facilities
13000000	12917754.56	3000000	2860488

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)

Computers and Other Equipments in different Laboratories:- • The college has an adequate number of computers with high-speed internet connection and application software. • System up-gradation is carried out according to the requirement of the software. • Laboratories are allotted for practical sessions based on the syllabus designed by S.P.P.U. • At the end of every semester stock verification of departmental laboratories is carried out by Staff respective lab in charge to check out minor, major faults and misplacement of the instruments under the supervision of the Head of the department. Minor and major faults are listed out and maintenance of minor faults is carried out by lab assistants. • Maintenance of Major faults is carried out by the external resources. • Once all maintenance is completed, lab in-charge, subject teacher, and lab assistants take the demo on the instrument and submit the report to HOD. • The sensitive equipments are covered and stored in a cupboard immediately after use. Classroom:- • The maintenance of switches, fans, tube lights, and furniture is done on regular basis. • The maintenance of desks and benches is done on regular basis. • Library • The students are instructed to procure an identity card to access the library. • Each student is allotted to take 3 books for a period of 15 days. • Each faculty borrows 5 books for a period of 15 days in addition to permanent books issued for the semester. • Library has a special hall for reading. • Functions of the library are monitored by automated library software. • At the end of each academic year, the stock verification of books in the library is carried out. • Any queries found are informed to the Principal and issues are sorted out. • Regular maintenance of books is carried out such as binding of books. • CCTV has been installed at all prominent locations such as the entrance gate, office, and more important at the examination center.

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	Late Shri Vilas Tambe Foundation Scholarship	170	3930789.5
Financial Support from Other Sources			
a) National	FREESHIP and SCHOLARSHIP	162	4948265.05
b) International	Nill	Nill	Nill
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Bridge Courses	13/01/2020	261	Details Are attached
Remedial Coaching	22/02/2020	7	Respective Subject Teacher
Yoga Meditation	30/09/2019	123	Mr. Ajit Nalawade Mob- 7350040999
Personnel Counseling	17/06/2019	190	Concern Mentor
Language and communication skills	17/06/2019	190	College Professors
Soft skills	14/02/2020	77	Prof. Ganesh Abhale Mob- 9561831204
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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 passed in the comp. exam	Number of students placed
2019	Guest Lecture Seminar	46	46	Nill	32
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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
Nil	Nil	Nil

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Pratibha Industries, Balaji Industries, Sandesh Rubber Industries	49	9	Details available in attached excel sheet	23	23
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	SPCOE, Dumbarwadi	ELECTRONICS AND TELECOMMUNICATION ENGG.	SPCOE, Dumbarwadi	ME (VLSI EMBEDDED)
2020	2	SPCOE, Dumbarwadi	COMPUTER ENGG.	SPCOE, Dumbarwadi	ME (COMPUTER ENGG.)
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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	Nil
No file uploaded.	

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

Activity	Level	Number of Participants
Singing	Institute Level	7
Solo Dance	Institute Level	5
Group Dance	Institute Level	8
Drama	Institute Level	12
Chess	Institute Level	10
Carrom	Institute Level	12
Badminton	Institute Level	15

Kho-Kho	Institute Level	36
kabaddi	Institute Level	28
Cricket	Institute Level	52
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Nill	National	Nill	Nill	Nil	Nil
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

SPCOE objective is global development of the students. From academic year 2011-12, SPCOE has constituted the student council. The primary objective of creating Student Council is to incorporate and accommodate the students from all departments to provide a platform to tackle their creative activities in an integrated manner. The organization objective is to promote cooperative and valuable leadership within student association at the Student council. The student council to keeps students engaged in activities apart from their regular academic work and to network and to showcase their talents. In current academic years, SPCOE students have participated in many reputable collaborative Competitions like national conference, Paper presentation, Project competitions, and many others organized by leading corporates. The students also coordinate the seminars and Workshops of well-kwon personalities which are held in the college. These provide a platform for the students to represent their management Skills. Apart from them, we also have events and competitions conducted by the various student cells which keep the students active throughout the year. A number of events are organized by the student under the guidance of faculty like Sports, National service scheme, annual cultural fest, etc. Students participate in number of co-curricular activities. Most of the committees includes students representation. The student's representatives serve in almost all academic and administrative bodies of the college such as student's council, Anti Ragging Committee, Anti sexual harassment Committee, Training and Placement Cell, NSS, etc.. Role of Student Representatives is to disseminate the information from the college administration to all students, Organize technical, non-technical and social events, Conduct Quiz Competitions on current affairs, Organize programs in NSS, Arrange Coordinate Industrial Visit, to maintain conducive and anti-ragging ambiance in hostel and college premises.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institute has a Functional Alumni Association From 2013 and Registered Alumni Association From 2018. Alumni Association contributes actively to the growth of the institution. To encourage entrepreneurship development with the help of alumni network, Alumni conduct guest lecture in college about Carrier Guidance, Personality Development, How to face Interview. They share Vacancy in Market on Google group pcoe.alumni@googlegroups.com. They placed student by their reference. Alumni also help in Admission Process of College. Feedback

regarding curriculum are collected from alumni. Most of the suggestions given by various stakeholders are communicated to concerned persons during up gradation of curriculum. Role of alumni in academic development is to help the students to get sponsored projects and in plant training. An alumni meeting helps in understanding the various expectations and feedback about institute policies for quality assurance. The Alumni association contributes actively to the welfare of the institution. The alumni meeting is organized once a year by College. Illustrious and prominent alumni are invited to deliver special lectures, motivating the students to go for higher education and to find the means for job opportunities.

5.4.2 – No. of enrolled Alumni:

279

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Sharadchandra Pawar College Of Engineering, otur organized "ALUMNI MEET 2K19", on 17 Feb 2020. Event Details: 1. Event started with inauguration and saraswati puja by Hon. Secretary Mr.Vaibhav Tambe, Dr. G.U. Kharat along with alumni students. 2. Alumni expressed their views on industrial experience and requirement of market. 3. An entertainment program was organized. 4. The vote of thanks given by Prof. R. S. Bansode. 5. A delicious lunch was served for all the alumni at the end of session

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)

Decentralization is seen as a tool of improving the efficiency of education system and the quality of educational services. At various levels, the college grooms the leadership. The college works with decentralization practices and participative management at various levels. Governing body, Management, IQAC Members, teaching, non-teaching and supporting staff, student representatives, Alumni and various committees mutually empowered to propose, design, formulate and execute their plans within the frame work of governance. IQAC has a well-developed process to ensure quality benchmarks of academic and administrative activities. Administrative: College has various administrative, academic and other committees/Cell for its smooth functioning and better outreach of day to day activities to faculty, students and staff. Management, Administrative officers, Faculty members and People from society and Industry are appointed as the members of various committees/Cell viz. Student Development Cell, Internal Quality Assurance Cell, Training and Placement cell, Students Grievance cell, Anti-Ragging committee, Anti-Sexual Harassment Cell, Women's Grievance cell, cultural committee, Sports committee, Feedback committee etc. Academic: In each Department the academic and administrative works are distributed among faculty members by appointing Coordinators/In-charges for the smooth functioning of departments. The student support and academic activities are decentralized by dividing the responsibilities in each department which are managed by respective coordinators like Class Teacher, Project Coordinator, Alumni Coordinator, Industrial Visit Coordinator, T P Dept. Coordinator, Time- Table Coordinator, Lab Incharge, University PR/OR Exam Coordinator, Department Exam Coordinator, Cultural Coordinator of Department, Sports Coordinator of Department, News Articles Coordinator, Magazine Coordinator etc. The Department meetings are conducted at regular interval. Faculty and Staff meetings are held

in the beginning of the each semester of academic year for constructive discussion on the matters related to the effective functioning of the Institutions and welfare of Faculty, Staff and students. Practices: 1) Recently institute organized Graduation Ceremony. Dr. Manohar G. Chaskar, Dean, Faculty of Science Technology, SPPU, Pune was Chief Guest of the ceremony. The total work was decentralized in various committees like Stage decoration and seating arrangement, Procession, Felicitation, Help Desk, Degree distribution and keeping record, Hospitality, Food committee, News and Publicity etc and the ceremony was grand success. Graduation Ceremony of our institute began with Academic Procession lead ceremonially by CEO of SPCOE Mr. Shiwaji R. Gayakwad holding University Flag in his hand. This was followed by students, Guest, Principal of the college in the sequence. 2) Recently institute organized 1st Yuva Mohotsav (Youth festival) on 16th - 17th Feb. 2020. This event was successful of proper implementation of decentralization and participative management. Total work was divided in various committees and properly synchronized in various departments of institute. The event was inaugurated by the Chief Guest Mr. Akash Patil. More than 600 students from different engineering colleges, Schools and High schools were participated in various programs held in this event. The event was managed by Students coordinators of all the departments under the different faculty coordinators. Many different activities are well organized and decentralize in which all the elements of the institutions are actively participated.

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
Curriculum Development	Being affiliated to Savitribai Phule Pune University, Pune and Non-autonomous college, we are not authorized to frame or design the Syllabus by ourselves. But whenever curriculum is design at that time suggestions were given by each department to members of respective Board of Studies (BoS) of the university as per guidelines from respective BoS. Suggestions from industry persons, Staff, Students, and alumni through feedback system are forwarded to the BoS. Also faculty members of respective subjects are deputed for faculty orientation workshop where syllabus formation and implementation policies are finalized.
Teaching and Learning	The Teaching and Learning process is monitored by the authorities regularly. Frequent meetings with teachers were conducted and also the oral and written feedback from the students, staff and alumni are taken regularly to improve the process. Various value added and Add on programs are conducted to improve the skill and knowledge of the

students. Development programs are arranged for progress of the staff. Teaching, learning process is made more students oriented and effective by the use of smart class room, practical teaching and more demonstrative and experimental teaching.

Examination and Evaluation

College conducts final theory, practical and Oral examinations as per university guidelines in fair and discipline manner. The teachers are deputed for central assessment program (CAP), Paper setting, conduction of practical and oral exam and theory exam etc. of university regularly. College also conducts internal theory examinations, oral examinations, internal practical examinations, assignments for the Term work evaluation and improvement of the students.

Research and Development

1. Faculty members and students are encouraged and motivated to publish research work and papers in National/ International Journals and conferences.
2. Various FDPs, seminars, workshops and conferences are arranged by institution to impart the Research culture among faculty members and students and also to enhance the skill.
3. Facilities are provided for faculties and students to do their work for research development.
4. Students are encouraged and motivated to participate in various Project competitions, Paper presentation competition, hackathon competitions, Conferences etc.
5. Faculty members are encouraged to apply for research grants by government bodies like UGC, AICTE, SPPU (BCUD) etc.

Library, ICT and Physical Infrastructure / Instrumentation

The college is having adequate Infrastructure facilities and is well in place. All labs and classrooms are well equipped for interactive teaching learning and updated regularly as per curriculum. Central library is having more than 10000 books, National/International Journals, Vridhi Software for all library management, transactions with Barcode based system, book bank facility under social welfare activity for SC ST students, soft copy of university question papers and Subscription of DELNET, NDL. College is having authorized local chapter of NPTEL. Internet connectivity speed is

55 MBPS. Security cameras are placed at various locations. College provides Indoor and Outdoor sports facilities.

Human Resource Management

The College has recruited adequate number of faculty members, Non-Teaching and support staff members as per the guidelines mandated by the apex bodies. For recruitment of staff members, advertisements were given in various reputed national/state/local newspapers. According to it interviews were planned and staff was recruited. To impart latest knowledge and preparing students for corporate world, various seminars, workshops guest lectures, ad on courses are arranged through industry experts and well known personalities.

Industry Interaction / Collaboration

The dedicated team of faculty members is formed along with T P coordinator of college to fetch collaborative interactions with the industries, working in the field of courses offered. The students are regularly sent for internship in addition to industrial training. Some of the projects of our students are sponsored by industries. 'Memorandum of Understanding' (MoU) is made with industries for professional development of the students and staff members through the collaborative work. The industry experts with proven track in the subject are normally invited as resource persons for various programs for students and teachers as well.

Admission of Students

The admission in the college is offered by the Central Admission Process (CAP rounds) system as decided by the apex bodies including DTE, AICTE, UGC and Savitribai Phule Pune University. The college also offers Facilitation Center for the professional course admissions under DTE, Maharashtra. Faculty members conduct the Lectures on career counseling for HSC. students. To enhance the admissions in the college effort are made through soft skill program, aptitude test program, industry exposure, seminars, workshops etc. for the students.

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

E-governance area	Details
Planning and Development	Planning and development activities

	are fulfilled as per the requirement of the SPPU, DTE, UGC and AICTE from time to time. Google Forms :- To prepare Feedback forms and get Online feedback from all stakeholders. Google sheet: - For data collection from Various Departments. Vridhhi software for Library Management and office
Administration	Vridhhi software is used for administrative purpose. Notice display system for students and other stakeholder. Circulars and notices to departments.
Finance and Accounts	Finance and accounts section uses Tally and excel for carrying out various accounting activities. Accounting activities carried out using Tally.
Student Admission and Support	The Admission process is centralized controlled by the Admission Regulating Authority (DTE), Maharashtra State. Vridhi software is used to keep student related database, library management and library automation.
Examination	SPPU Pune university schedule two online examinations in each semester for FE, SE students which are conducted at the institute through the online portal. Examination conducted as per rules governed by Savitribai Phule Pune University. During pandemic, online oral examinations are conducted using ZOOM platform. Allocation of marks for practical, oral, term work through institute over university portal.

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
2020	Dere Kapil Dnyaneshwar	Data Science Conference at COEP Pune	Nill	410
2020	Chinchole Mahesh Gokul	Workshop on framing of SE ETC syllabus	Nill	480
2019	Bansode Rahul Sitaram	TPO development program	Nill	760
2019	Gayakwad Shiwaji Ramesh	FDP program on Teaching	Nill	550

		Engineering Mechanics Theory and Practicals		
2019	Chinchole Mahesh Gokul	Faculty Orientation workshop on F.E. revised syllabus 2019 course for the subject Basic Electronics Engineering	Nill	270
2019	Gorade Nishigandh Bhimashankar	NSS Annual Meeting, Savitribai Phule Pune University, Pune	Nill	390
2020	Jadhav Sachin Zambar	Data Science Conference at COEP Pune	Nill	470
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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	Nill	Training Program on Microsoft Office Skill Enhancement and Capacity Building	08/11/2019	09/11/2019	26	9
2020	Workshop on Machine Learning using Python	Nill	31/01/2020	03/02/2020	24	Nill
2020	Workshop on Artificial Intelligence	Nill	10/02/2020	11/02/2020	23	Nill
2020	Workshop on UI Development Tools	Nill	12/03/2020	13/03/2020	25	Nill

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
Faculty Development Program on Data Science	3	11/11/2019	16/11/2019	6
Faculty Development Program on "Robotics"	1	01/06/2020	05/06/2020	5
ICT Mode STTP on "Network Security (ICT12)"	1	27/04/2020	01/05/2020	5
ICT Mode STTP on "Network Infrastructure and Cloud Security (ICT30)"	1	18/05/2020	22/05/2020	5
International Online Certificate Program "Introduction to Rocket and Satellite Engineering"	1	12/04/2020	17/04/2020	6
Faculty Development Program on "ARDUINO"	2	25/04/2020	30/04/2020	6
Faculty Development Program on "eSim"	3	05/05/2020	10/05/2020	6
FDP on R PROGRAMMING, spoken tutorial project, IIT bombay	2	11/05/2020	16/05/2020	6
4TH ONLINE NATIONAL RESEARCH METHODOLOGY WORKSHOP	2	01/05/2020	08/05/2020	8
Workshop on	1	20/05/2020	21/05/2020	2

CAE Tools and
Its Application
for Automotive
Development

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
20	9	9	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1) Providing financial support to participate in various Faculty Development Programs, STTP's, Workshops and attending the Conferences etc 2) Providing financial support for publishing the papers in IEEE transactions, in Scopus indexed journals, in UGC approved journals etc. 3) Duty Leave to participate in various Faculty Development Programs, STTP's, Workshops and attending the Conferences etc 4) Employee Provident Fund 5) Loan facility from Bank 6) Free Transportation facility in college bus. 7) Conduction of Yoga Sessions for employee 8) Conduction of Health awareness program 9) Maternity Leaves 10) Gymnasium facility</p>	<p>1) Employee Provident Fund 2) Free Uniform 3) Loan facility from Bank 4) Free Transportation facility in college bus. 5) Conduction of Yoga Sessions for employee 6) Conduction of Health awareness program 7) Maternity Leaves 8) Gymnasium facility</p>	<p>1) Karmaveer Bhaurao Patil Earn Learn scheme in association with Board of Student's Development, Savitribai Phule Pune University, Pune. 2) Accidental Insurance 3) The management offers Vilas Tambe Foundation scholarship to all students. 4) Nirbhay Kanya Abhiyan for girls 5) Permission to pay fees in installments for economically weaker students. 6) Personality development programs 7) Various technical workshops, Seminars and conferences 8) Travelling allowance to participate in various cultural (e.g. Youth Festival), Sports activity organized by university. 9) Financial support/Assistance provided to students for publishing the papers in international journals attending the conference. 10) Conduction of health awareness program and Yoga sessions. 11) Gymnasium facility</p>

6.4 – Financial Management and Resource Mobilization

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

Institution conducts internal and external financial audits regularly. Internal and external auditors are appointed by the SGMSPM Society. The internal audit is carried out in each half of the financial year while and external audit once in a year. The last audit for the year 2019-20 has been carried out by internal Auditor Mr. Manoj Paliwal in September 2019 and April 2020 while External

(Statutory) Audit by external auditor Mr. Deepak Sasar in July 2020. No major irregularities were found in the audit and minor suggestions were fulfilled. The audited balance sheet of the Institute for the year 2019-20 was considered and approved.

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
Lila Poonawalla Foundation (LPF) Merit - Cum - Need Based Scholarship	135000	Merit - Cum - Need Based Scholarship to students
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6.4.3 – Total corpus fund generated

0

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	Integral Certifications Pvt. Ltd.	Yes	IQAC Internal Assessment Committee
Administrative	Yes	Deepak S Sasar and Associates	Yes	Mr. Manoj Paliwal, SGMSPM

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

1) Industrial Visit 2) Guest Lecture 3) Internship 4) Feedback for Improvement 5) Visit of Parents in project exhibition of students 6) Feedback on curriculam
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6.5.3 – Development programmes for support staff (at least three)

1. Microsoft Office Skill Enhancement and Capacity Building 2. Training on Safety 3. Training on Laboratory Maintenance 4. Hands on practice for basic operation of workshop equipment's.

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

1. More Implementation of e-learning via online courses available on Udemy, NPTEL, Coursera 2. More number of Entrepreneurship training activities 3. Implementation of Employability Skill enhancement programs. 4. Teachers are encouraged to submit proposals for receiving grants for research activities and publishing the papers in IEEE transactions and in Scopus indexed journals. 5. Started foreign language courses (online) available on Udemy, NPTEL, Coursera etc 6. Students are encouraged to participate in co-curricular and extra-curricular activities at university, state and national level. 7. Students are encouraged to publish the papers in IEEE transactions, in Scopus indexed journals, in UGC approved journals etc.
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6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No

c)ISO certification	Yes
d)NBA or any other quality audit	No

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
2020	Organised Workshop on Artificial Intelligence	10/02/2020	10/02/2020	11/02/2020	71
2019	Training program on Microsoft Office Skill Enhancement and Capacity Building	08/11/2019	08/11/2019	09/11/2019	35
2020	Organised Workshop on Machine Learning using Python	31/01/2020	31/01/2020	03/02/2020	73
2020	Organised Workshop on UI Development Tools	12/03/2020	12/03/2020	13/03/2020	85
2020	Organised Workshop on Nirbhay Kanya	17/01/2020	17/01/2020	17/01/2020	45
2019	Karmaveer Bhaurao Patil Earn Learn Scheme	01/07/2019	01/07/2019	28/02/2020	27
2019	Participation in National Programme on Technology Enhanced Learning (NPTEL)	29/07/2019	29/07/2019	26/04/2020	224
2020	Organised Youth Festival	16/02/2020	16/02/2020	17/02/2020	188
2019	Funding for educational Lab equipments under Quality	14/09/2019	14/09/2019	14/09/2019	3

	Improvement program of Savitribai Phule Pune University, Pune				
2020	Workshop on Instrumentation and Control	13/01/2020	13/01/2020	18/01/2020	68
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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
AIDS Awareness Programme	01/12/2019	01/12/2019	29	21
Self Defence Workshop For Girls	03/01/2020	03/01/2020	40	38
Nirbhay Kanya Abhiyan	17/01/2020	17/01/2020	36	9
Save girl child campaign	01/07/2020	01/07/2020	30	20
Worlds Women's Day	03/09/2020	03/09/2020	40	26

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
<p>The institute takes lots of effort to create environmental consciousness among stakeholders of the institute i.e students, teaching and non-teaching staff. For that, we conduct the tree plantation in the institute campus as well as in the student's home due to COVID -19 pandemic. Institute arranged a swachhata wari in which all teaching and non-teaching staff cleans campus and students clean their neighborhood places and homes due to COVID -19 pandemic. The institute conduct green audit, energy audit and environmental audit to know the achievement of institute i.e effect of green practices which are conducted during the years. For conservation of energy institute use 1. Use of LED light (90 per cent power requirement met through the LED) 2. Solar Panel (15 KW energy generated by the source).</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil

Scribes for examination	Yes	Nil
Provision for lift	Yes	Nil
Special skill development for differently abled students	No	Nil
Braille Software/facilities	No	Nil
Any other similar facility	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	Nil	1	04/01/2020	7	National Service Scheme Winter Camp (At Alme, Junnar)	Samajik Yogadan, Van savardhan, Andhhradhha Nirmulan and Beti Bachao, Durg Savardhan, Aahar aani Aarogya	27
2020	Nil	1	01/06/2020	1	Van Savardhan	To increase the green cover	50
2020	Nil	1	01/07/2020	1	Save girl child campaign	To give equal opportunity and respect	50
2020	1	Nil	05/05/2020	20	Covid-19 Awareness Quiz -SPIT FREE INDIA Movement	Awareness of students about the hazards of Covid-19	143
2020	Nil	1	26/06/2020	15	Family Survey during Covid-19	Awareness of health and hygiene	42

						during Covid-19 situation	
2020	Nill	1	07/03/2020	1	Tree Plantation	To restore native forests around village and to make campus ecofriendly	70
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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)
Code of Conduct (Handbook)	28/08/2019	As per the norms, disciplinary rules of various aspects for both the teachers and students are implemented. About the staff: the personnel policies and procedures, rules and regulations to be followed by staff, professional ethics, employee benefit plans, and facilities. Mandatory Aspects for Students: To be punctual in classroom, wear I-card uniform, Maintain discipline in the college campus. Attendance: As per the SPPU, Pune norms, attendance should be more than 75 percent.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Yoga Day	20/06/2019	20/06/2019	50
Independence Day	15/08/2019	15/08/2019	49
Anant Chaturdashi	02/09/2019	12/09/2019	50
Teachers Day	05/09/2019	05/09/2019	58
Engineers Day	15/09/2019	15/09/2019	50
Gandhi Jayanti	02/10/2019	02/10/2019	50
AIDs Awareness Programme	01/12/2019	01/12/2019	58
Dr.Babasaheb Ambedkar Punyatithi	06/12/2019	06/12/2019	54
Savitribai Phule	03/01/2020	03/01/2020	56

Jayanti			
Jijamata Aani Swami Vivekanad Jayanti	12/01/2020	12/01/2020	52
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Institute takes lots of effort to make campus eco friendly. 1. Tree plantation activities: Tree plantation is carried out on the college campus. 2. Paperless office: Institute circulates all instructions to students and staff via email and WhatsApp groups. Departmental feedback takes online now for reducing paperwork. 3. E-waste management:- Electronic goods are put to optimum use. The E-waste is gathered and stocked at an assigned place. E-Waste is disposed of at periodic intervals. 4. Swachhta Abhiyaan: All teaching and non-teaching staff cleans the campus and students clean their village through this campaign. 5. Solar Panel: Institute installed solar panels on the roof which reduces dependency on MSEB electricity. Total 90 of electricity requirements met through this solar panel. 6. Rain Water harvesting: A rainwater harvesting project has been implemented in the college.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of Practice-1:- Technical Skill Upgradation of the student **Goal:** To Upgrade the technical skills of the students and ready from campus to cooperate world. **The Context:** Industry needs are often changing, technologies are rapidly updating. Students must be aware about these changes and update their skill sets. Though students are good in academics, few of them are lacking in presentations and technical skills. It is essential to groom the students in technical skills and soft skills. Hence different types of workshops, training programs are arranged to enhance the skill set of the students. **Practice- 1.** To enhance the technical skill of the students, Institute takes several efforts. The institute organized different types of workshops for student's development like Workshop on Artificial Intelligence, Machine Learning using Python, UI Development Tools, Instrumentation and Control, Android Application Development. 2. Guest lecture on Career Counseling, Seminar on Guidance for competitive Examination, Soft Skills Program, Personnel Counseling, Students are motivated to participate in workshops, seminars, Project Competitions, Training Programs and Internship, Online courses like NPTEL, Udemy, Coursera, and Great Learning etc. **Evidence of Success:** 1. Students have completed their final year project using acquired skills. 2. Students have participated and successfully completed online courses with certifications like NPTEL, Udemy. **Problems Encountered and Resources Required:** It is observed that motivation to the students is essential to participate in such programmes as they are from rural backgrounds. **Title of Practice-2:-** Financial Assistance Scheme for students **Aim:** - To support the students financially for their education. **Objective:** -To supply pecuniary support to the able needy students. **The Context:** The institute is situated in the hilly area of Junnar taluka. Most of the students are from financially weaker sections and from backward classes. The college has provided financial support to such students. **Practice:** Vilas Tambe Foundation, Pune provides financial support to all the needy students admitted to the institute. In addition, the institute provides the assistance to the students to get scholarships from various agencies. The institute helps poor students in their education through the "Earn and Learn Scheme" of the institute in collaboration with Savitribai Phule Pune University, Pune. The college assists the students through financial help to attend workshops and cultural activities, project exhibitions etc. Some students are very poor and

unable to survive with their basic needs. To such students, the institute provides free accommodation and canteen facilities at a reasonable cost. Evidence of Success:- 1.Vilas Tambe Foundation Scholarship Late shri Vilas Tambe Foundation scholarship is awarded to total 170 students for Rs 3930789.5/- 2. Total 27 students have taken advantages of "Earn and Learn Scheme". Total Amount Earned by Students is Rs 42885/- Note: Students are paid monthly in their bank account for their work 3. Grant Received from management for conduction of workshops. Purpose Grant Received from Management Workshop on Artificial Intelligence Rs 6614/- Workshop on Machine Learning by using Python Rs 11890/- Workshop on UI Development Tools Rs 6370/- Workshop on Nirbhaya Kanya Rs 990/- Youth Festival and Cultural Activities Rs 86042/- Problems Encountered and Resources Required: For Earn and Learn scheme their is an upper limit for maximum amount earn by the students.

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

http://spcoe.in/best_practices/

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

INSTITUTIONAL DISTINCTIVENESS Building moral values and Social responsibilities in the students and staff members: Now a days, it is observed that human beings are reached a new era of technical excellence, wealth and facilities which makes their life easy. The world is becoming global but people are going away from each other. Family members are at a distance of horizon from each other. Love, affection, faith, caring for each other, satisfaction is disappearing from life. In this crowded world, the people are alone, always in tension, Sleepless, worried, on the way towards frustration and slowly marching towards psychiatric problems. To solve this social problem, it is essential to incorporate a seed of moral values in the heart of each and every person. Everyone should be e practiced to learn knowing himself, his in built inner power and to enter the world of real happiness. It is the key to success to achieve the real goal of life. He should emerge as a responsible person to his family, society and Nation. So, Institute has taken the first step to impart moral values to the students and staff members. A daily one hour lecture is conducted on Bhagwat Geeta Interpretation and Dasbodh Chintan. To help their parents and Society students are made aware of zero budget farming through the lecture series so that, farming becomes profitable. Farming without any chemicals, fertilizers and insecticides provide food without any chemicals (Poison) to society. Health is an important factor in the life of each and every person. Students and faculty members are made familiar with the real concept of health through the "health lecture series" on ASHTANG HRUDAYAM and ASHTANG SANGRAHAM. It includes proper diet, timings, seasonable changes, changes with the ages, etc. The importance and application of Pranayam and Yoga are taught through a practice session. A concept of implementation of PANCHAGAVYA CHIKITSA, the importance of desi cow is made familiar to the students through theory and practice sessions. A step is taken by the institute to incorporate real happiness in the heart of the students and staff members and serving for their families, societies and the nation as a whole.

Provide the weblink of the institution

http://spcoe.in/institutional_distinctiveness/

8.Future Plans of Actions for Next Academic Year

1. To increase the number of placements. 2. To increase research publication. 3. To increase the number of students undergoing for industrial training /

internships. 4. To improve industry institute interaction. 5. To encourage faculty to publish their research paper in Scopus indexed journals by providing incentives. 6. To increase number of quality improvement schemes such as industry person workshop, webinars on latest technology etc. 7. ISO 9001-2015 Re-Certification. 8. Execution of activities to improve research attitude in the students and staff members. 9. Steps to improve the physical and mental health of the students.