



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	SHIVAJIRAO S. JONDHALE COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr.PRAMOD R.RODGE
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	+919869132422
Mobile no.	9594962007
Registered Email	pramodrrodge@gmail.com
Alternate Email	principal@shivajiraojondhalecoe.org.in
Address	Behind Venkatesh Petrol Pump Sheel-kalyan Road Sonarpada Post Manpada Dombivli East Dist Thane - 421204.
City/Town	Dombivli East
State/UT	Maharashtra

Pincode	421204																		
2. Institutional Status																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Smita A.Lonkar																		
Phone no/Alternate Phone no.	02512872560																		
Mobile no.	9869062125																		
Registered Email	smitalonkar@gmail.com																		
Alternate Email	lonkarsa@gmail.com																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://shivajiraojondhalecoe.org.in/naac1819/aqar_report_2018_19.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://shivajiraojondhalecoe.org.in/2019-20																		
5. Accrediation 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 Accrediation</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>2.60</td> <td>2019</td> <td>09-Sep-2019</td> <td>08-Sep-2024</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B+	2.60	2019	09-Sep-2019	08-Sep-2024
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	B+	2.60	2019	09-Sep-2019	08-Sep-2024														
6. Date of Establishment of IQAC	15-Jul-2017																		
7. Internal Quality Assurance System																			
Quality initiatives by IQAC during the year for promoting quality culture																			
Item /Title of the quality initiative by	Date & Duration		Number of participants/ beneficiaries																

IQAC		
Appointment of college SPOC for Smart India Hackathon	10-Jan-2020 01	100
First Year Induction Program	13-Aug-2019 05	150
IQAC meeting	09-Jul-2019 01	15
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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
Not applicable	Not applicable	Not applicable	2019 00	0
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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)	
Chapter wise / module wise test was conducted.	
Math Magic [Mathematics Pass] Mission was implemented by giving more emphasis on problem solving methodologies.	
Encouragement of Research publications for students	
Internal Academic audit	

Interaction of Alumina by conducting online webinars

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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
Sessions for 'Awareness of Engineering admission process for Junior college students' planned	Various Sessions for junior college students were conducted.
FDPs on latest topics to be conducted.	FDPs on latest topics conducted.
Research to be encouraged for students	Implemented by publications in special issue on International Journal of Advance and Innovative Research
Research to be encouraged for Staff members	Implemented by publications in UGC approved journals
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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

20-Aug-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

14-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)

ERP facility has following modules... • Faculty information system started using this module from August 2018 onwards. The module has information of each faculty. The information includes personal details, academic details, bank details, research work, experience, publications, subject etc. of each faculty. • Feedback Mechanism module was started from October 2018

onwards. The module will able to take feedback such as faculty feedback, course feedback etc. • Attendance Management, Syllabus Coverage System, Learning Material Distribution started using this module from January 2019 onwards. Faculties can upload their lesson plan and supporting learning material. Learning material is shared with students. Faculties can fill attendance through this module. Admin, Principal can verify the filled information. • Alumni Information System started using this module from February 2019 onwards. The module is able to register alumni and maintain details of them. • E Notice Management started using this module from June 2019 onwards. The module is used for sending notices through ERP system. • Online Examination :The module is used to take various exams like aptitude test. • Library Management System Books issue and return can be done. Students can access library database. • Grievance redressal System Students can login the complaints on this portal and viewed by Grievance Redressal committee. • Teacher Guardian - This can be media between teacher and parents of students. • For Administrative office we are currently using Students Information Module and fees collection system. This system has principal portal, students portal, faculty portal, and alumni portal where respective information can be accessed.

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

Shivajirao S. Jondhale College of Engineering is affiliated to University of Mumbai. The college regards effective delivery of curriculum as the most vital curricular aspect. The college follows the curriculum prescribed by the University. The college ensures effective curriculum delivery through systematic and strategic transparent mechanism. • Before the start of each academic year university issues a detailed academic calendar with the details about the date of commencement of each semester, oral and practical examinations, Term end, end semester exams etc. Based on University Academic calendar, the institute prepares its own academic calendar well in advance before the start of the semester. It includes internal assessment schedule, university examination schedule, schedule for co-curricular and extra curricular activities. • The Heads of Departments conducts the meetings to

distribute workload, allot subjects, plan the activities of the department and to review the completed syllabus. Head of each department allocates theory and laboratory workload to faculty members according to their choice. • The Principal monitors the effective implementation of the Calendar through formal meetings with Heads of Departments and if necessary informal discussions with faculty. • Time- Table Committee: The college constitutes the Timetable committee. The Timetable is prepared by respective departments. The department timetable for each semester is prepared to indicate specific class & laboratory hours. The class timetables are displayed on common notice board. Final year projects are also decided and allotted as per interest area of students. • Teaching plan is prepared by every faculty member at the beginning of academic year. Every faculty member maintains course files which contain lesson plan, notes, previous year question papers and academic record book . Laboratory manuals are prepared so that students can understand and correlate theory with practical application. The faculty engages extra periods and practical's as and when necessary and maintains their records. • The college encourages its faculty members to attend orientation programs to improve the teaching learning process. Various bridge courses are conducted for the first-year students to analyze and understand the fundamental concepts. • Weak students with respect to academics are identified and remedial classes are arranged for them. Guest lectures, seminars, Add-on, and value-added programs are conducted to supplement the curriculum inputs. Effective delivery in the analytical subjects is ensured by conducting tutorial classes as per the timetable. • Faculty members encourage the students to do innovative project work. They are motivated to do research work and to present papers in seminars and conferences and also publish in national and international journals. • To monitor the performance of the student, Internal Assessment Tests are conducted twice in a semester along with regular assessment. It is ensured that 40% of the syllabus is covered before the first Internal Assessment test and 70% of the syllabus is covered before the second Internal Assessment test. Oral/Practical examinations are conducted as per university norms . To strengthen the bond between teachers and students the teaching faculty is entrusted with the task of mentoring 15-20 students on Academic and Personal issues

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
Not Introduced	Not Introduced	Nil	0	Not Introduced	Not Introduced

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Chemical Engineering	01/07/2019
BE	Computer Engineering	01/07/2019
BE	Electronics and Telecommunication Engineering	01/07/2019
BE	Information Technology	01/07/2019
BE	Mechanical Engineering	01/07/2019
BE	Production Engineering	01/07/2019

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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	Chemical Engineering	08/07/2019
BE	Computer Engineering	08/07/2019
BE	Electronics and Telecommunication Engineering	08/07/2019
BE	Information Technology	08/07/2019
BE	Mechanical Engineering	08/07/2019
BE	Production Engineering	08/07/2019

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

	Certificate	Diploma Course
Number of Students	754	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
Safety Aspects In Chemical Industry	03/03/2020	68
Amazon Web Services	02/09/2019	54
Internet of Things- Arduino	20/01/2020	62
Bootcamp on Data Analytics	06/03/2020	54
Rapid Prototyping	17/02/2020	80
Product Design and 3D Printing	23/07/2019	30
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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	Chemical Engineering	17
BE	Computer Engineering	8
BE	Electronics and Telecommunications Engineering	4
BE	Information Technology	12
BE	Mechanical Engineering	14
BE	Production Engineering	41
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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

The stakeholder's feedback is considered as a valuable source of information to measure their level of satisfaction. The institution has a well-defined policy to conduct a feedback process every semester to improve the teaching learning process, infrastructure, and the entire learning experience for the students during their tenure. The college has initiated an online feedback system (ERP) to obtain feedback on academic (subject), faculty, facilities, and various academic activities. Feedback form/formats are designed for the stakeholders. This includes faculty feedback, alumni feedback, student feedback, course exit survey, etc. Students: Faculty feedback from the students for the respective course is taken twice in a semester on various teaching/learning aspects and it is analyzed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements. Course exit feedback and program exit feedback are taken to analyse the understanding capability of the students. Feedback about the infrastructural facilities is taken from the final year students at the end of the program for improving the lab facilities, if any. The feedback so obtained is analysed for further improvement. Parents: Feedback is also collected from the parents during Parent Teacher Meetings (PTMs) that are organized by each and every department of the college. Suggestions and comments given by the guardians are also taken into account for future development. Alumni: Feedback is taken from alumni for suggestions or improvements in the curriculum and it is conveyed to the Chairman, BOS of the respective programmes of University of Mumbai. Feedback from faculties is also taken for their suggestions in syllabus revision based on alumni suggestions, various Add-on and Value-added courses are organized in the department to meet the industry requirement. Industry: Feedback is also collected from the companies. This feedback is discussed in meeting of training and placement cell. Experts: The views expressed by the experts who visit the institute during Add-on programs, seminar, guest lecture on the current scenario and requirement of industry are also incorporated. Suggestion boxes are installed in the premises which are accessible to all the stake holders so that they can give their feedback/ suggestions for improvements. Action Taken Report is submitted by HODs to IQAC to complete the cycle of corrective measures and this cycle is repeated every year.

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	Production Engineering	60	Nil	Nil
BE	Mechanical Engineering	60	7	7

BE	Information Technology	40	26	26
BE	Electronics and Telecommunication Engineering	60	1	1
BE	Computer Engineering	90	82	82
BE	Chemical Engineering	60	26	26
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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	1224	Nil	89	Nil	89

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
89	69	4	13	7	7

[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)

Every learner desires a support system in today's demanding world. As a result, mentorship is crucial. Mentoring creates a welcoming atmosphere for students and assures them that someone is concerned about their well-being. Mentoring assists them in meeting the new obstacles that they face on a daily basis. Mentoring connects students to their own personal development and growth. It aids pupils in developing their self-esteem and sense of humour as part of the lifelong teaching learning process. Mentors help students achieve their academic goals by providing guidance. Mentoring has several goals: 1. To encourage students to actively participate in extracurricular and academic activities. 2. To focus and motivate students to attain their learning objectives and, as a result, to improve their academic performance. 3. Encourage and promote participation in national and international conferences and project competitions like Smart India Hackathon and Avishkar. 4. To encourage students who are weaker or slower for competitive examinations. 5. During the vacations, encourage students to participate in various industry workshops and internships. Process of mentoring: 1. First, second, third, and fourth-year students are allocated mentors. As per the class size, each mentor is responsible for a group of 15-20 pupils. 2. Mentors hold at least one meeting per semester, however students are allowed to meet with their mentors at any time. 3. Counseling is available for students who are struggling academically. 4. If necessary, mentors also communicate with the students' parents. Mentoring Best Practices: 1. Mentors should be patient when speaking with learners. 2. Communicate effectively with students and deliver timely, honest, and meaningful responses. 3. Provide lots of space for learners to talk or ask questions, as well as a healthy meeting environment. 4. The mentor gives students advice on how to better manage their time. 5. The mentor should enable learners to think positively. 6. If there is any reluctance on the part of the student or a lack of progress in the student's behaviour, a dialogue with the parents should be launched.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1224	89	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
100	89	Nil	Nil	10

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	Nil	Nil	Nil
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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	3193507	Sem VII/ B.E	26/11/2019	16/01/2020
BE	3193245	Sem VII/ B.E	26/11/2019	16/01/2020
BE	3193372	Sem VII/ B.E	26/11/2019	14/01/2020
BE	3193246	Sem VII/ B.E	26/11/2019	02/01/2020
BE	3193612	Sem VII/ B.E	26/11/2019	07/01/2020
BE	3193507	Sem V/ T.E	27/11/2019	08/02/2020
BE	3193245	Sem V/T.E	27/11/2019	21/01/2020
BE	3193372	Sem V/T.E	27/11/2019	04/02/2020
BE	3193246	Sem V/T.E	27/11/2019	04/02/2020
BE	3193612	Sem V/T.E	27/11/2019	08/02/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

- We Shivajirao S. Jondhale College of Engineering Dombivli (E) strictly follow evaluation reforms instructed by University of Mumbai.
- Induction program were arranged by institute for the newly admitted students to make them aware about marking scheme, examination pattern, internal assessment and grading system.
- At institute level two internal assessment tests per semester are conducted for each subject and results are declared within a week. Test 1 is based on 40 syllabus and Test 2 is on 70 syllabus.
- The induction programs, assessment policies prescribed by University of Mumbai were followed as prevailing years.
- The average of tests marks is considered as internal assessment marks of Semester End Examination.
- Question bank is provided to students. It is

mandatory for every concerned subject teacher to prepare and submit synoptic answering and marking scheme for test papers as well as university papers. •

Model answers are discussed in class, which helps learners to know their shortcomings. • The evaluation of term work contains journal marks, assignment marks, case studies, mini project, attendance and performance in laboratory. • The evaluation pattern is as prescribed by the University of Mumbai. Oral and practical examinations are conducted after the end of semester. • For smooth conduction of End Semester Examination, examination cell in-charge prepares guidelines and conduct meetings to convey these guidelines to the supervisors.

• Masking, coding and decoding method is used to handle all answer sheets securely. On screen evaluation is done for university examinations (Semester I, II, VII and VIII) by respective subject teacher. • Revaluation and verification of marks and result at institute level is done by expert faculty members appointed by institute. • Effective and careful scrutiny has done after assessment for college level examinations and gadgets are prepared. • Students are guided for submission of applications for revaluation and photocopy of answer book. Student's performance and its analysis are done through result analysis. • The Academic activities, continuous assessment and End semester examination were conducted in the same manner as for previous years. • During Covid 19 Pandemic, the guidelines issued from University of Mumbai were followed. • The protocols from University of Mumbai for conduction of classes, continuous internal evaluation and the assessment of End semester examination were strictly followed.

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

• The University of Mumbai publishes in advance, the academic calendar for curricular activities. • The institute academic calendar in concurrence with the University calendar is prepared in advance before the commencement of the semester • The institute academic calendar consists of dates for commencement of classes for odd and even semesters, dates for commencement of internal assessments, sports, cultural festivals, technical festivals, Parents Meeting, term end, test I and II, Practical Examinations and theory examination and commencement of new term. • The departmental academic calendar additionally consists of departmental STTP, FDP, add-on courses, value added courses, remedial classes, submission, oral and practical examination etc. • The policies and action which are planned by IQAC are executed during the entire session. • The institution adheres to the academic calendar for the conduct of Continuous Internal Evaluation (CIE). • The schedule of internal assessments are communicated to students and teaching staff through institute's academic calendar. • For effective implementation of continuous Internal Assessment system at the institute level, the institute conducts two tests per semester. • Test papers are set based on course outcomes and in consultation with Head of department. • The answer books are shown to students after evaluation providing sufficient transparency and accountability. • The schedule for end semester examination is communicated during semester when schedule is released by the University of Mumbai. • The institute forms internal squad committee, examination committee for smooth conduct of examinations. • The faculty of institute is relieved for university duties related to evaluation, conduction and flying squads for examinations. • For examination and documentation works, the institute has appointed Examination-In-Charge as per guidelines given by the University of Mumbai. Examination cell Committee communicates with junior supervisors, understudy supervisors and senior supervisors about examination related work. Duration of paper assessment is clearly decided (i.e. assessment should be done within 5 days) • The students are the main stakeholders in any education imparting Institute and it's our endeavor to make all efforts to ensure transparency in all the activities at various stages. • Taking this spirit in consideration, the institute has decided to frame mechanism for

examination related grievances. • The students can approach the teachers, in case they need a clarification on the award of marks. Here, teacher clarifies doubts regarding evaluation. • Once results are declared student can apply for photocopy and revaluation, if they found any discrepancy in the photocopy they report to exam section. • The exam section committee decides what to do in the case of grievances as each case is different. • Students can apply for grievances by one of the following ways 1. If the total is incorrect: The institute verifies the details in available records and guides the students with possible solutions at institute level or refers them with proper document to the University. 2. If some questions are not checked: After result is declared, students can apply for photocopy and revaluation within stipulated time. Thus academic calendar preparation and its adherence is ensured.

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://shivajiraojondhalecoe.org.in/naac1819/criteria2/2.6.1>

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
3193507	BE	Chemical Engineering	57	57	100
3193245	BE	Computer Engineering	95	95	100
3193372	BE	Electronics & Telecommunication Engineering	49	49	100
3193246	BE	Information Technology	59	59	100
3193612	BE	Mechanical Engineering	74	74	100
3193606	BE	Production Engineering	57	57	100

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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://shivajiraojondhalecoe.org.in/naac1819/NAAC%20SSS>

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

Any Other (Specify)	0	0	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
Internship Opportunities in Machine Learning	COMPUTER/EXTC/INFORMATION TECHNOLOGY	04/02/2020
Internship Opportunities in Web Designing	COMPUTER/ INFORMATION TECHNOLOGY	22/02/2020
5G Technology expert talk	EXTC DEPARTMENT	26/02/2020
Seminar on IPR and patenting	All departments	06/08/2019
Internship Opportunities in Automation Robotics	All departments	02/08/2019
Overseas Education	All departments	29/08/2019
Resume Writing	All departments	18/09/2019
Aptitude Test Preparation	All departments	19/09/2019
Interview Techniques	All departments	28/09/2019
Career Opportunities in Germany.	All departments	14/01/2020
X-TRA TECHIE Webinar Series	All departments	13/06/2020

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
First prize for project titled Cocopeat as a Biofilter in Rubber company	Kartik Savla,Pranali Kandkar and grp	Institution of engineers (India) ,Belapur centre	28/02/2020	Chemical Engineering degree group
University level project competition Consolation prize on Automated solar powered Surveillance rover operated on recycled lithium cells	Bonde Riddhesh Jeevan and grp	Mumbai University-Avishkar Research Convention	01/02/2020	UG student
Winner at Biohackathon 2019	Kartik Vipin Savla	Somaiya group	03/01/2020	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
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
NOT APPLICABLE	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	Computer Engineering	22	7.5
International	Electronics and Telecommunication	6	6
International	Information Technology	9	7.4
International	Mechanical engineering	1	7.2
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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 Department	2
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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
OFFLINE CLASSROOM FOR COLLEGE	Prof. Reena Deshmukh	International Journal of Advance and Innovative Research	2019	0	SSJCOE	Nil
GOING BEYOND RANKINGS:	Prof. Reena Deshmukh	International Journal of	2019	0	SSJCOE	Nil

A NEW PERSPECTIVE ON UNIVERSITIES THROUGH SENTIMENT ANALYSIS		Advance and Innovative Research				
Effective Bandwidth Prediction through Statistical Technique over Heterogeneous Networks	Prof. Renuka Deshpande	International journal of innovative technology and exploring engineering	2019	0	SSJCOE	Nil
Self balancing for robot	Prof. Diksha Bhave	International journal of advanced and innovative journal	2019	0	SSJCOE	Nil
Automatic question paper generator wireless sensor network	Prof. Diksha Bhave	International journal of advanced and innovative journal	2019	0	SSJCOE	Nil
Hybrid spectrum access model using game theory approach for multi-channel heterogeneous mobile cognitive radio wireless sensor network	Prof Saroja.T.V	Indonesian Journal of Electrical Engineering and Computer Science	2019	1	SSJCOE	1
Web Based Examination System with smart Assessment Using natural Language Processing	Prof Saroja.T.V	Indonesian Journal of Electrical Engineering and Computer Science	2019	1	SSJCOE	Nil

Design Multiple Vehicle Detection and Tracking of Parking system	Prof Saroja.T.V	Indonesian Journal of Electrical Engineering and Computer Science	2019	1	SSJCOE	Nill
HAND GESTURE CONTROLLED COMPUTER USING ARDUINO	Prof. Renuka Deshpande	International journal of advanced and innovative journal	2019	2	SSJCOE	Nill
TOUCH TO SPEECH: AN ANDROID APP FOR BLIND PERSON	Prof. Renuka Deshpande	International journal of advanced and innovative journalSSJ COE	2019	2	SSJCOE	Nill

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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
OFFLINE CLASSROOM FOR COLLEGE	Prof. Reena Deshmukh	International Journal of Advance and Innovative Research	2019	Nill	Nill	SSJCOE

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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	8	17	128	Nill
Resource persons	Nill	Nill	Nill	2
Presented papers	2	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/	Number of teachers	Number of students
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	collaborating agency	participated in such activities	participated in such activities
Tree plantation drive 18/7/2019	Students council SSJCOE	9	50
Shivaji Jayanti day program 19/2/2020	Marathi Vangmay Mandal SSJCOE	6	45
Celebration of Constitution Day 26/11/2019	NSS SSJCOE	40	Nill
Womens Day Celebration 11/3/2020	Womens Development Cell SSJCOE	42	40
Yoga day celebration 21/6/2020	IETE Mumbai centre SSJCOE	40	Nill
One student one tree Initiative 8/8/2019	AICTE SSJCOE	10	55
Swachata Pakhwada program on 22/1/2020	NSS SSJCOE	50	45
Open discussion on "College elections should be held in an open manner on 20.07.2019	SSJCOE with News18 lokmat news channel.	15	100
Marathi bhasa din 28/2/2020	Marathi Vangmay Mandal SSJCOE	6	40
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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	Nill
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 youth policy	SSJCOE with News18 lokmat news channel.	Open discussion on "College elections should be held in an open manner on 20/07/2019	15	100

Swatch Bharat Mission	NSS SSJCOE	Swachata Pakhwada program on 22/1/2020	50	45
Constitution Day celebration	NSS SSJCOE	Celebration of Constitution Day 26/11/2019	40	Nil
Equality in gender and womens rights	Womens Development Cell SSJCOE	Womens Day Celebration 11/3/2020	42	40
Physical and Mental health	IETE Mumbai centre SSJCOE	Yoga day celebration 21/6/2020	40	Nil
Environmental awareness	Students council SSJCOE	Tree plantation drive 18/7/2019	9	50
Cultural Awareness	Marathi Vangmay Mandal SSJCOE	Marathi bhasa din 28/2/2020	6	40
Cultural Awareness	Marathi Vangmay Mandal SSJCOE	Shivaji Jayanti day program 19/2/2020	6	45
Environmental awareness	AICTE SSJCOE	One student one tree Initiative 8/8/2019	10	55
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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
NIL	NIL	NIL	0
No file uploaded.			

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
Student Internship	Student Internship	Please refer attached file	11/12/2019	07/06/2020	IT(12 students)
Student Internship	Student Internship	Please refer attached file	15/06/2019	15/02/2020	Computer(8 students)

Student Internship	Student Internship	Please refer attached file	01/12/2019	30/12/2019	EXTC(3 STUDENTS)
Student Internship	Student Internship	Please refer attached file	02/12/2019	28/12/2019	Mechanical (15 students)
Student Internship	Student Internship	Please refer attached file	04/12/2019	30/04/2020	Chemical (10 students)
View File					

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
Centre of Excellence in Maritime and Shipping, Mumbai	12/04/2019	3. On line courses for faculty and students	6
Technojack Infolutions, Mumbai	25/07/2018	Internship and workshop / projects on Arduino	30
Eduvance Pvt Ltd	15/04/2019	Workshops on microprocessor development boards	20
Centre of Excellence in Maritime and Shipping, Mumbai	12/04/2019	1. Webinar for students on 29/5/2020 on Acceleration design of mechanical routed system in complex assemblies	30
Centre of Excellence in Maritime and Shipping, Mumbai	12/04/2019	2. Webinar for students on 10/6/2020 on Career opportunities in Engineering design services and Manufacturing	54
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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
70	72

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
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 partially)	Version	Year of automation
LIBRARY MANAGEMENT SYSTEM (WEB) -STANADARD	Partially	-	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	35130	13188863	586	387596	35716	13576459
Journals	7465	334456	73	53140	7538	387596
e-Journals	452	211232	Nil	Nil	452	211232
Others(s pecify)	1	13570	Nil	Nil	1	13570
e-Books	546	Nil	Nil	Nil	546	Nil
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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
Dr. Uttara Dhananjay Gogate	Basics of Image Processing	Video lecture-YouTube	29/07/2020
Dr. Uttara Dhananjay Gogate	Introduction Part_II : History and Applications of Digital Image Processing	Video Lecture-YouTube	29/05/2020
Prof. Amey Shirodkar	Electro-Pneumatic Circuit Mechatronics	Video lecture	31/07/2019
Prof. Suvarna Patil	Canned Cycle with Absolute Form	Video lecture	30/07/2019

Dr. Bhavna Thakur	Antenna -Radiation pattern and antenna parameters	Video lecture- YouTube	27/05/2020
Dr. Bhavna Thakur	Antenna- Periodic or Circular convolution in DTSP - a simple and easy method.	Video lecture- YouTube	13/12/2020
Prof. Kishor Deshmukh	BEE	Video Lecture	06/08/2019
Dr. Uttara Dhananjay Gogate	Image Processing	Video Lecture	18/04/2019
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwid th (MBPS/ GBPS)	Others
Existin g	283	59	15	0	100	3	106	50	0
Added	0	0	0	0	0	0	0	0	0
Total	283	59	15	0	100	3	106	50	0

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

52 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
video lectures on institute website	https://shivajiraojondhalecoe.org.in/video-lectures/
YouTube video lectures	https://docs.google.com/spreadsheets/d/1bR8mVwQ1hq6INnID_6dMYiwqAf5H0yhF/edit?usp=sharing&ouid=109031319877618260480&rtpof=true&sd=true
Shared PPTs and Notes	https://docs.google.com/spreadsheets/d/14D7c8U1o56qUaY303zGiw88MtsGt4W2w/edit?usp=sharing&rtpof=true&sd=true
NPTEL, MOOCS and Other	https://docs.google.com/spreadsheets/d/1vz8orn4SQYR-mSIRi_Uoag5sIMa8pOXd/edit?usp=sharing&ouid=109031319877618260480&rtpof=true&sd=true
E-Books	https://docs.google.com/spreadsheets/d/

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
203	203	214	119

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)

College management has appointed various external agencies for the maintenance, repair and cleaning of college campus, equipment, laboratories, library, sports complex, computers, classrooms and other infrastructure and support facilities. Maintenance work is done regularly in following ways-

- Daily Maintenance: Lab equipment's and instruments are maintained daily by lab in charge with the help of lab assistant and non-teaching staff.
- Yearly or semester-wise maintenance: All the equipment's and instruments are checked by lab in charge with the help of lab assistant and non-teaching staff periodically.

1. Maintenance of Classrooms, Laboratories and other facilities
The Classrooms and Laboratories are maintained and cleaned daily, supervised by Administrative staff in-charge. Furniture and electrification of classrooms is checked regularly. Separate classrooms and laboratories are allotted to each department for conducting lectures, practical and tutorials. Some physical facilities like seminar hall, workshops, drawing hall, computer centers and some laboratories are shared by the departments. Intimation and approval of the concerned in charge is essential for the proper utilization of shared resources.
2. Computer and support facility maintenance: Maintenance of all computers and peripherals is done by the staff of external agency under AMC contract. Concerned staff members from Computer and IT department handle the issues related to Internet connectivity, College website and network connectivity. The purchases of new computers, printer refilling, antivirus etc. is supervised by the departments. Laboratory and other equipment are maintained by technical supporting staff. In case of any major repairs, service is hired from outside agencies.
3. Maintenance of Physical facilities For electrical and civil maintenance work, each department gives their requirements to Principal, and then forwarded to management for getting sanctioned. Work order is given to concerned external agencies. The civil work related to renovation and maintenance of entire college building is carried out by external agencies on contract basis.
4. Maintenance and utilization of Library The Librarian is in-charge of the library. Requirement of Books, journals or other facilities and any related maintenance is forwarded to management through Principal. SLIM 21, ERP software, Multimedia facility are available in the library is available for students and staff.
5. Maintenance of Sports complex All the indoor and outdoor sports facilities as well as gymnasium comes under the control of Sport in-charge. Students have to take prior permission from the sport in-charge for the utilization of the same. Requirement of Sports Equipment and Accessories or other facilities and any related maintenance is forwarded by Sport in-charge to management through Principal.

Other Maintenance Activities:

- The college is having Generator back up, maintained by administration office staff.
- Maintenance of garden, tree plantation, landscapes, external and physical beautification of the college campus. is done regularly. Student volunteers from college NSS unit, student forums undertake plantation work periodically as a

social service. • Maintenance, cleaning, housekeeping, sanitary maintenance and cleaning of all the class rooms, sports complex, laboratories and library have been outsourced. Respective departments supervise these activities. • Round the clock security on the college campus is done by the external agencies.

<http://shivajiraojondhalecoe.org.in/naac1819/criteria4/4.4.2%20Maintenance/Maintainace%204.4.2%202019-20.pdf>

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	NIL	0	0
Financial Support from Other Sources			
a) National	SC/ST/OBC/SBC/VJ/NT/EBC Scholarship/Freeship	772	48736370
b) International	NIL	Nil	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
Internship Opportunities in Web Designing	22/02/2020	123	Digital Context
Yoga and Meditation	21/06/2020	40	IETE Ahmedabad and IETE Noida Centers
Internship Opportunities in Machine Learning	04/02/2020	43	Quastech
Career Opportunities in Germany.	14/01/2020	42	Mr. Akshay Lotankar, Amazon
Interview Techniques	28/09/2019	78	Mr. Ulhas Ranade, Infosys
Aptitude Test Preparation	19/09/2019	65	Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E)
Resume Writing	18/09/2019	70	Squad Infotech Pvt. Ltd.
Overseas Education	29/08/2019	87	Riya Education Pvt. Ltd.
Internship Opportunities in	02/08/2019	70	Mica Labs

Automation Robotics

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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
2020	Guidance for Competitive exams	130	Nil	7	Nil
2020	Career Counselling activities	Nil	578	Nil	42

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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
Refer Uploaded file	Nil	Nil	Refer uploaded file	Nil	Nil

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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	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	Engineering	Information Technology	VJTI, Matunga, Mumbai	M.Tech
2020	1	Engineering	Computer Engineering	Carnegie Mellon University	MS-Technology Venture
2020	1	Engineering	Computer Engineering	University of East London	MSc-Information Security and Digital

					Forensics
2020	2	Engineering	Chemical Engineering	University of Mumbai, Kalyan sub center	M.E
2020	1	Engineering	Chemical Engineering	Vishwakarma Institute of Technology, Pune	M.Tech
2020	1	Engineering	Chemical engineering	Parul university	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	5
GRE	1
Any Other	1
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Refer uploaded file	Refer uploaded file	Nil
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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
2020	NIL	Nil	Nil	Nil	NIL	NIL
No file uploaded.						

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

The institute has a very active Student Council formed by a well-established process. The process starts with inviting applications from the students for the various posts of Student Council. It consists of General Secretary, Technical Secretary, Sports Secretary, Cultural Secretary, NSS representative, NCC representative and Ladies representative. A selection committee comprising of Principal, HOD's, In-charge Sports Director, Faculty Coordinator for Cultural and NSS In-charge is formed for the selection of the Technical, Cultural Sports Secretary, NSS, NCC Ladies representative from Third and Final year through an Interview process. The member of Student Council formed has representation from all the departments and together they act as a link between the students and the Institute. To ensure proper handing over of responsibilities from the previous council, the formation is done at the start of the odd semester of the academic year. The new council takes charge

immediately after formation of Students council. The Student Council also forms various dedicated teams for tasks such as Marketing, Public Relations, Logistics, Fund Raising, Social Media Management, Multimedia Editing and Photography based on the student's interests. This helps the students to gain first-hand expertise and a better understanding of these fields. The Student Council along with professional chapters and NSS plan organize all extracurricular events and prepare an event calendar. All the events are organized as per standard procedure set by the institute. The college allocates significant funds for the smooth conduction of all major activities. Alongside organizing the college festivals, workshops and skill development sessions are organized across the academic calendar. The members also play a vital role in various institute level committees like the college women development cell, anti ragging committee and IQAC committee. They are involved in all the activities that define the life of a student. Involving the students in various administrative bodies make them more responsible and strengthened their bonding with the institute. Right from the orientation of the first year engineering students to farewell of the Graduating students, the council plays an integral part in the organization and execution of these activities.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Shivajirao S. Jondhale College of Engineering Student Alumni Association (SSJCOEAA) has been registered with registrar of societies as per society act 1860(section 21,1860) at Thane bearing registration number:Maharashtra/1081/2019/Thane. This Association is functional and formed with an objective to nurture a bond with alma mater, to enhance placement and internship opportunities and to also help in building up the network of the alumni. The Institute effectively networks and collaborates with alumni which have seen an increase in the number of alumni interacting with the students every year. The main objectives of the Alumni committee are • To have a platform where the alumni, existing students and staff of the institute can interact, renew old bonds with the Alma-mater, foster new ties and relive the nostalgic college moments. • To effectively network and collaborate with alumni every year which provide platform for the students to interact with their seniors in industry and get expert guidance as regards to professional requirements and industrial/emerging technological trends. • To increase assistance for Internships and Placement for current students. • Participation of alumni in activities contributing to the general development of the department /institute. • To provide feedback with respect to curriculum, facilities, developmental activities etc. The Alumni Committee is working very hard towards achieving these objectives The Nonfinancial means through which alumni contributes to the Institute are as mentioned below. • They help us to identify gaps in the curriculum through their structured feedback on curriculum in-order to keep pace with the recent advancements in industry. They suggest Add-on, Value Added course and Workshop to mitigate the gap. • Our alumni have conducted seminars, internship programs to inspire and guide students which help them progress in their individual fields . Our alumni are working hard in collaboration with Institute for the development of Institute. • Our alumnus Mr.Chinmay Avinash Anaokar from Department of Computer Engineering conducted value added course on "Amazon Web Services" which benefited students. • Our alumnus Mr. Karan Bahure from Department of Electronics and Telecommunication Engineering conducted value added course on "Internet of Things- Arduino which benefited Second and Third year students immensely. • Our alumnus Mr. Akshit Bangale from Department of Computer Engineering was instrumental in organizing a Bootcamp on "Data Analytics" for students of Computer , IT and Electronics and Telecommunication Engineering. • Our alumnus Mr. Akshay Lotankar from

Department of Information Technology conducted seminar on " Career Opportunities in Germany " for Third year and Final year students. • Our alumnus from Department of Computer Engineering Mr Pranav Phadke was a speaker in a four days webinar series "X-TRA TECHIE" Organized by IEEEssjcoe student chapter. He presented a informative session on the topic " Build a live skill for Amazon Alexa". • Mr Kshitij Kulkarni , alumnus of Department of Information Technology conducted a seminar on "Cybersecurity awareness and basic penetration testing tools" for final year students. • Mr Rushank Karekar , alumnus of Department of Information Technology conducted a seminar on "Data Analytics and its applications" for students.

5.4.2 – No. of enrolled Alumni:

435

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

01

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)

The policy of decentralization is best suited for the effective implementation of quality improvement programme. At our institute, all the necessary academic and non-academic powers are delegated to Principal who in turn delegates further as per requirement. This decentralized management practice wherein powers and responsibilities are delegated at suitable level results in greater flexibility and accountability. This also has resulted in faster decision making and preparing everybody for future higher roles when required. The head of departments is empowered to take decisions at department level and implement them with the help of teaching and non-teaching staff. At department level each, faculty coordinators are appointed as coordinator for various academic and non-academic events like unit tests, students organization, seminars etc. These faculty coordinators then form their own team consisting of other faculty, supporting staff and students for smooth implementation of said event. Students are also involved in many decision making process. The same principle is followed at institute level for other units of the college like sports, library etc. The faculty coordinators have operational autonomy under the guidance of the Head of Department. Two practices of conduction of unit test and working of students' associations like MESA/CESA etc. are explained here to illustrate the practice of decentralization and participative management. 1. For conduction of unit test, departmental examination coordinator is appointed in the beginning of academic year. As per academic calendar, examination coordinator prepares timetable and informs students. He then informs the paper setter, prepares supervision chart and delegates other duties to all staff. Supporting staff helps in preparing seating arrangement, blank answer papers bundles. On the day of examination, supervisors take responsibility of smooth conduction of UT and also records the attendance of students. The process of assessment and declaration of result are being done on time. The answer papers will be shown to students after the assessment and also the marks will be displayed on Departmental notice boards. The parents also have freedom of seeing the answer papers of their ward, discussing their ward's progress with faculty or heads of department or even with Principal if they wish to. Parents' meetings are being held in every semester and thus we try to do a very

transparent mechanism in all academic activities. 2. Students' associations are formed in every branch and renewed the committee in every year for organizing the academic, co-curricular activities and extracurricular activities for the students and to offer a chance to students to develop their skills like teamwork, leadership etc. Faculty members are also involved in such associations to guide and mentor the students in all activities. This kind of associations enable the students to understand the community in which they are working and also prepare students to meet the challenges and to accept the peer pressure in their professional life. As faculty and students are jointly organizing events it definitely creates a bond between them and also helps the students to get a chance to correct their attitude.

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

Yes

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	The institute follows the curriculum decided by Mumbai University as the institute is affiliated to University of Mumbai. The key ideas of industry requirements are given to students by arranging various programs like industrial visits, in plant training, internships etc. The NPTEL programs, software training courses and other online courses are used to encourage the students for getting knowledge of various topics.
Teaching and Learning	The teaching and learning process is continuously monitored to provide quality education. The course plan, syllabus completion, mode of delivery of contents, feedback from students are observed by Academic advisory committee at department level. The suggestions and guidance to improve teaching learning process are given by IQAC, Academic advisory committee. Various workshops, seminars, training etc are arranged. Mentors find the weaknesses of the students and resolve it.
Examination and Evaluation	The University of Mumbai has provided the syllabus scheme and examinations scheme which consists of 80 Marks Theory Examination and 20 Marks Internal Assessment for the subjects. The Theory examinations and IA are conducted as per academic calendar and time table provided by UoM. Two test examinations are conducted based on whole syllabus and average of that is considered as Internal Assessment which is displayed to students to maintain transparency. The continuous evaluation

of students is done by conducting mock tests, presentations, assignments etc.

Research and Development

The staff and students are encouraged for research by publishing and presenting the research work in reputed journals, conferences and patent. The staffs are encouraged for research and higher educational programs by providing State of the art Laboratories by the institute. The faculties undertake the research projects financed by Government and non-Government agencies. The Incubation centre and IPR cell creates and transfer knowledge of research by conducting workshops/seminars on IPR and Industry- Academia Innovative practices.

Library, ICT and Physical Infrastructure / Instrumentation

The institute has well-furnished, air-conditioned spacious central library with number of copies of textbooks, reference books, journals, E-journals and Library Management Software accessible to staff and students. The administrative office, library, staff and students use ERP system. The classrooms are well equipped with ICT facilities, smartboards, LCD projectors, etc. The institute has well numbered laboratories, classrooms, tutorial rooms, workshops, seminar halls, drawing hall, canteen, central library, computer center, boy's and girl's common rooms, spread over 15.25 acers. The departmental smart classrooms and computer laboratories are well maintained with the help of external agencies.

Human Resource Management

Enriched human resources are the important factor for the progress of any organization. The staff get benefit of several employee welfare schemes. The teaching and learning process is enhanced by encouraging and motivating the staff to attend workshops, STTPs, FDPs, conferences on current trends and pursue higher studies and undertake research work by sponsoring as per policy applicable. The performance appraisal system is applied for staff.

Industry Interaction / Collaboration

To share the ideas of industries, expose latest technical advancements, to bridge the gap between curriculum and industrial practices, the industry institute interaction is an important part. Internships, industry sponsored

	<p>projects, industrial visits etc are the ways for interaction with industry.</p> <p>Formal agreements are signed by conducting various activities like training programs, workshops, seminars etc.</p>
Admission of Students	<p>The admission process for first year and direct second year is done as per DTE guidelines. First the candidates have to register the application through online mode on the given website for admission and then upload the required documents. After verifying the documents, the confirmation of application form for admission is done. The candidates provisional merit list is displayed on the website and submission of grievance , if any for all type of candidates is done and final merit list is displayed.</p>

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

E-governance area	Details
Planning and Development	The ERP software is used by staff for preparing course plan, mock tests papers, study material. The students can view and get them through ERP System. Issuing, returning or searching of books is also done through the library management system software.
Administration	The student's information with all records is administered using software.
Finance and Accounts	Accounts are maintained using proper software.
Student Admission and Support	The student's information with all records is administered using software.
Examination	After entering the marks for term work, oral/practical, internal assessment and theory exam, the gazette and mark sheets are generated by using software.

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	Prof.Smita Lonkar	FDP on MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0	N.A	750

2020	Prof.Dr.Bhavna Thakur	FDP on MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0	N.A	750
2019	Prof. Dr.Savita Sangam	N.A.	membership fee for CSI	2000
2019	Prof. Dr.Rodge Pramod	N.A	membership fee for CSI	2000
2019	Prof.Manisha Sonawane	N.A.	membership fee for CSI	2000
2019	Prof.Hemlata Nehate	FDP On Technologies for sustainable Development	N.A.	1500
2019	Prof.Deepali Narkhade	One Day Workshop on Arduino	N.A.	1000
2019	Prof. Dr.Uttara Gogate	FDP on Internet of Things	N.A.	750
2020	Prof. Dr.Uttara Gogate	FDP on MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0	N.A.	750
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	Nil	Nil	Nil	Nil	Nil	Nil
View File						

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
No Data Entered/Not Applicable !!!				
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching	Non-teaching
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Permanent	Full Time	Permanent	Full Time
89	89	30	15

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1. Encouragement for the faculty for attending workshop, conferences, seminars, short term courses and faculty development programme. 2. The institute provides Teachers sponsorship to pursue for higher studies. 3. Encourages the faculty to become member of professional bodies and to participate in the activities organised by them. 4. Encourages the faculty to visit the industry in their domain. 5. Promotes and motivates the faculty to use ICT tools in their teaching learning process. 6. Encourages the faculty for publication of research papers in Journals or conferences 7. The institute provides Mediclaim policy for all teaching staff. 8. The institute provides ten days paid and 20 days half paid medical leaves per year to all teaching staff. 9. The institute provides study leave to acquire the higher education to all teaching staff. 10. The institute provides paid maternity leave to all female employees as per rules. 11. The institute provides casual leave facility to teaching staff as per rule. 12. The institute organizes free Eye check-up and health check-up camps to ensure the better health of all the employees. 13. Gratuity is received by an employee in gratitude</p>	<p>1. The institute provides, Mediclaim policy for all Non-teaching staff. 2. The institute provides ten days paid and 20 days half paid medical leave per year to all non-teaching staff. 3. The institute provides, casual leave facility to non-teaching staff as per rule. 4. The institute organizes training programs as per the need for skill development of non-teaching staff. 5. The institute organizes free Eye check-up and health check-up camps to ensure the better health of all the employees. 6. The institute provides paid maternity leave to all female employees as per rules. 7. The institute provides summer and winter vacation for all supporting staff. as per University of Mumbai guidelines. 8. The institute provides, Uniforms to all class IV staff. 9. Gratuity is received by an employee in gratitude for their services offered to the institute. 10. The institute provides, Employees Provident Fund facility to the all, non-teaching staff 11. Provision of canteen in the campus. 12. Provision of 24/7 on campus security. 13. Sanitary Napkin Vending Machine is installed. 14. Provision of ample secure parking area. 15. First aid facility and Doctor on call is available.</p>	<p>1. Provision of canteen in the campus 2. Provision of on campus Gym facility. 3. Provision of 24/7 on campus security. 4. Sanitary Napkin Vending Machine is installed, in Girl's room. 5. Provision of ample secure parking area. 6. First aid facility and Doctor on call is available. 7. Building Insurance, Fire and safety provision is available. 8. The institute provides, Accidental Insurance Policy for all students. 9. Provision of RO purified drinking water is available.</p>

for their services offered to the institute. 14. The institute provides Employees Provident Fund facility to the staff. 15. The institute provides summer and winter vacation for teaching and supporting staff, as per University of Mumbai guidelines. 16. Provision of canteen in the campus. 17. Provision of on campus Gym facility. 18. Provision of 24/7 on campus security. 19. Sanitary Napkin Vending Machine is installed. 20. Provision of ample secure parking area. 21. First aid facility and Doctor on call is available. 22. The institute provides, Accidental Insurance Policy for all Staff Members. 23. Building Insurance, Fire and safety provision is available. 24. Provision of RO purified drinking water is available.

16. Building Insurance, Fire and safety provision is available. 17. Provision of RO purified drinking water is available.

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 an effective mechanism for auditing the Institute accounts. The auditing process of SSJCOE takes place in two stages External audit and Internal audit. Chartered accountant audits the accounts of the institute regularly as per the rules and guidelines. The external auditor is appointed by the trust who executes the statutory audit and gives his report on audit every year. The last audit was carried out in the month of October 2019. The internal audit of accounts of the Institute is carried out by team of internal auditors occasionally. The internal auditor checks the accounts to see if all entries are properly recorded for the smooth running

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
Nil	0	Nil
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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	Dr.Mahavir Devmane, HOD Computer Dept., PVPPCOE, Mumbai	Yes	Prof. Varsha Magar, Prof. Nitin Satao
Administrative	Yes	Sharad S Gaikwad Co. Chartered Accountant	Yes	Prof. K. S. Deshmukh, Dr. Ramesh Shelke

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

1. Parent teacher meetings are conducted and suggestions from parents is taken for improvement. 2. Parents contacts are used for arranging expert lectures. 3. Parents contacts are used for placement assistance. 4. Cocurricular activities are conducted for students skills with the help of some active parents.

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

1. One day workshop on Basic Conversation in English 2. Training on Procurement of Computer Equipment. 3. One Day Workshop on Development of Soft skills. 4. One Day Workshop on Academic and Administrative Planning.

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

1. Implementation of some ERP modules 2. Staff members were encouraged for use of online methodologies. 3. Increase in research publications for students

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	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
2019	IQAC meeting	09/07/2019	09/07/2019	09/07/2019	15
2019	First year Induction program	13/08/2019	13/08/2019	17/08/2019	150
2020	Appointment of college SPOC for Smart India Hackathon	10/01/2020	10/01/2020	10/01/2020	100

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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
Sports Week	11/01/2020	18/01/2020	70	150
Women's Day Celebration	11/03/2020	11/03/2020	82	6

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

30 percent with the use of solar panel and LED bulbs.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	80
Ramp/Rails	Yes	2
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	8
Scribes for examination	Yes	1
Special skill development for differently abled students	No	Nil
Any other similar facility	Yes	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
2019	1	Nil	25/07/2019	12	Facilitation center for DSY admissions	Facility for applicant for centralized admission process, Maharashtra	720
2019	Nil	1	18/07/2019	1	Tree Pl	Social	60

			019		antation	Awareness	
2019	Nil	1	08/08/2020	1	One Tree one student Tree Plan tation Drive Pla ntation	Social Responsib ility	65
2019	Nil	1	02/10/2020	1	Cleanli ness Drive	Social Awareness	50
2020	Nil	1	07/01/2020	1	Seminar on Plastic Free Challenge month	Social Responsib ility	100
2020	Nil	1	22/01/2020	15	Swachata pakhawada	Social responsib ility	100
2020	Nil	1	07/02/2020	1	Electric Vehicle Awareness for pollution control	Social responsib ility	150
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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 for students teachers, non teaching and supporting staff(during Lockdown due to covid 19)	17/03/2020	Students were encouraged to persue online courses as per their specialization through coursera or any other online platform, attend various informative webinar, STTP for the benefit of career growth. IEEE students chapter of institute initiated campus coursera Program free for completion of various online courses for staff and students.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Traditional Day Celebration/ social bonding	11/02/2020	11/02/2020	300

Constitution day	26/11/2019	26/11/2019	40
Dandiya promoting communal harmony	05/10/2019	05/10/2019	300
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Plastic free campus
2. Paperless office
3. Green landscaping with trees
4. Pedestrian friendly roads
5. Promotion to use bicycles and public transport

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Our institute has a vision to impart a quality technical education for creating competent and ethically strong professionals. College intends to provide a friendly and healthy environment to students. Institute has developed some of the best practices to achieve the vision and mission. Two of the practices elaborated here are: Best Practice 1

1.1. TITLE OF THE PRACTICE: Smart Teaching and Learning

1.2. OBJECTIVES OF THE PRACTICE:

- To develop context-based learning.
- Offer new ways to engage students.
- To use worldwide available latest technology in teaching learning process.
- To develop analytical reasoning.
- To sharpen critical thinking.
- To use online available documents, database, images, videos for teaching.
- To develop e-content by teachers for institute.
- To include fun and enjoyable experience in teaching learning process.

1.3. THE CONTEXT: Today in the 21st century with the technological advancement our old classroom has changed to smart classrooms. Traditional classroom means none other than blackboards, teachers, chalk and duster. But with the technological boon everyone's purview changing and these blackboard classes are being transformed to 'smart classes.' As the word Smart means specific, measurable, attainable, result-oriented, timebound, teaching and learning process have changed. Classroom blended with technology enabling learning and teaching experiences. The smart class makes learning fun and interesting for the students.

1.3 THE PRACTICE: Smart classrooms are technology enhanced classrooms that encourage opportunities for teaching and learning. It integrates computers, interactive pad, e- boards, mobile phones, audience response technology, assistive listing devices, visualizers, projectors etc. The program is designed in such a way that, lectures will be taken through PowerPoint /video presentation by professors. Faculty post assignments, questions, relevant articles, research and current knowledge and many more through online link. The link will be sent to student group by e-mail and/ or WhatsApp. The students access the classroom presentation any time which encourages outside the classroom learning. Online special lectures can also be conducted whenever required from smart classroom through video conferencing. Students are encouraged to take special online courses from NPTEL, Coursera, Udemy. These courses are taken by well renowned professors from all over the world. After completing the course, exam will be conducted and the person who complete successfully will be given certificates.

1.4. EVIDENCE OF SUCCESS: The way of smart teaching offer new ways to engage students. They are able to understand difficult concepts through 3D images and videos. Multiple objective tests/ quizzes are conducted. The improvement of the students can be traced. Students with no improvements, they are helped in the areas where they are weak. This enables the students to follow a planned and defined path to achieve their goals. More communication is possible between students and teachers. Many

of the faculties have developed their online lecture contents. Some teachers also made their own video lectures. It helps to increase e-content in our institute.

1.5. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Social interaction which improves bonding between teachers and students reduced. Another problem is distraction. Students do not understand reliable and unreliable sources. Students find ways to cheat. Many students cannot afford laptop or mobiles. Some students develop medical problems as eye or neck pain. It is difficult to incorporate enough budget to have more number of smart classrooms in the college. Therefore, all lectures cannot be in the form of digital learning.

Best Practice 2: 2.1. TITLE OF THE PRACTICE: Plastic Free Challenge - one step towards Green Campus 2.2. OBJECTIVES OF THE PRACTICE: - To raise Environmental awareness and promote solutions. - To inculcate Environmental consciousness. - To focus on small daily steps to make change in attitude. - To be a role model for others. - To make the campus plastic free. 2.3. THE CONTEXT: Plastic free challenge is an effort to demonstrate that we need not to rely on disposable plastics. Plastic pollution is one of the biggest problems we face as a species. Petroleum based plastics pollute the air, water, and food that we need to survive. Everyone can see effect of global warming and environment pollution. For the past few decades, the world has realized the importance of environmental protection. So, it's better to be a positive role model and influence on others to save earth. We need to change our attitude. 2.4 THE PRACTICE: Plastic free challenge is decided for one month time. It is decided that each one in the campus will avoid use of single use plastics. The first step is to refuse plastic bags, spoons, bottles. With the help of posters this message is spread in the campus. Some student volunteers take the charge of making paper bags and demonstrate the use of it. All paper bags made from bio degradable papers. It is decided to use bio degradable packing in the canteen too. Alternative solution of Bio friendly material awareness introduced among students. 2.5 EVIDENCE OF SUCCESS: Number of students participation made campus cleaner and plastic free. Each one avoided use of plastic bottles and bags. People started avoiding plastic bags while purchase of daily stuff. Every one started to carry cloth bag instead of plastic carry bag. Students were very interested to make paper bags and ready to create awareness among near one. 2.6 PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Extra budget required to make posters, bio degradable paper bags and green campus. So the practice started with making each one aware of the challenge through seminar. Initially it is difficult to accept this challenge, but slowly everyone habituated. Each one need to take one step to make a change and save environment.

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

<http://shivajiraojondhalecoe.org.in/naac1819/criteria7/7.2%20Best%20practice/Best%20Practice%207.2%20year%2019-20.pdf>

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

The college has a vision to impart a quality technical education for creating competent and ethically strong professionals. College intends to provide a friendly and healthy environment to students. The institute have distinct decentralize work system. Apart from this the institution is keen to bring some changes in the current market trend in the engineering education. Today's challenging issue in the education is students lost interest in the field of science. This has a big impact on the smaller number of engineering admissions. Many of the institutes need to close some of core branches due to zero admissions. IQAC committee of the college came up with an idea to send different team of staff members to various junior colleges. This is to

elaborate the engineering specialization to the aspiring young minds. Committee decided to have a discussion with team members. A number of points have been decided to emphasize during orientation in various colleges. According to schedule teams have visited different schools and junior colleges and taken the permission to conduct orientation. The objective of orientation is to create interest in science and engineering field. Team explained how the advances in the science and technology are growing and how the talented graduates are lacking in the job market. The orientation is for school students of 10th standard to change their mind set up towards science field and for 11th and 12th standard students to why to choose engineering as career. For orientation the suburban as well as rural areas schools and colleges were covered. In the orientation team members also brings awareness to the latest courses that are available in different branches of engineering. The students were encouraged to visit our institute for the hands-on experience on projects. Date and timings for Upcoming sessions for career counselling and admission procedure also displayed for their future reference. Our institute is one of the facilitation center appointed by DTE for engineering admissions. A team of staff members help all the aspiring students and their parents to solve their queries in the facilitation center. This orientation program was quite a success as many of the students participated and shown interest towards opting engineering studies.

Provide the weblink of the institution

<http://shivajiraojondhalecoe.org.in/naac1819/criteria7/7.3%20Organization%20Structure/7.3%20year%2019-20%20INSTITUTIONAL-DISTINCTIVENESS.pdf>

8.Future Plans of Actions for Next Academic Year

Institute has been introducing and executing several activities to guarantee and improve quality in the diverse aspects of academics and cocurricular activities.

- 1.To encourage the faculty for submitting the applications for minor research projects.
2. To encourage the faculty and students for publications in the reputed Journals Conferences at International level.
3. To encourage the faculty students for patents registration.
4. To focus on training and placement by providing training courses to the students through industry interaction, developing technological and communication skills.