



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	SARASWATI COLLEGE OF ENGINEERING, KHARGHAR
Name of the head of the Institution	Dr. Manjusha Pradip Deshmukh
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02227743706
Mobile no.	7738677011
Registered Email	principal.scoe@gmail.com
Alternate Email	iqac.scoe@sce.edu.in
Address	Plot-46, Sector-5, Kharghar, Navi Mumbai
City/Town	Kharghar
State/UT	Maharashtra
Pincode	410210

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>Self financed</b>
Name of the IQAC co-ordinator/Director	<b>Prof. Sujata Bhairnallykar</b>
Phone no/Alternate Phone no.	<b>02227743706</b>
Mobile no.	<b>9920622380</b>
Registered Email	<b>iqac.scoe@sce.edu.in</b>
Alternate Email	<b>principal.scoe@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://engineering.saraswathikharghar.edu.in/wp-content/uploads/sites/6/2018/12/AQAR-2017-18.pdf">https://engineering.saraswathikharghar.edu.in/wp-content/uploads/sites/6/2018/12/AQAR-2017-18.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://engineering.saraswathikharghar.edu.in/academic-calender/">https://engineering.saraswathikharghar.edu.in/academic-calender/</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>B</b>	<b>2.34</b>	<b>2017</b>	<b>02-May-2017</b>	<b>01-May-2022</b>

<b>6. Date of Establishment of IQAC</b>	<b>17-Jul-2015</b>
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<b>7. Internal Quality Assurance System</b>
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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		
Academic Administrative Audit (AAA) conducted and its follow up action	07-Jun-2019 1	250
Preparation for Participation in NIRF	05-Oct-2018 60	250
Preparation for ISO certification	14-Jan-2019 90	250
Application for Various awards, Rewards and Compitations	03-Dec-2018 30	250
Faculty development programme in Q1 for Teaching staff	19-Jun-2019 5	138
Self Upgradation training programme for Non-teaching staff	05-Jul-2019 2	97
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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
1. SCOE/EXTC & Comp/Dr. Manjusha Deshmukh &Dr. Deepa Parashar	Major Research Grant	BRNS, BARC, Mumbai	2018 365	1306700
2. SCOE/CIVIL/ Prof. A. B. Lakhote	Minor Research Grant	University of Mumbai	2018 365	40000
3. SCOE/MECH/Prof. S.G. Solanke	Minor Research Grant	University of Mumbai	2018 365	48000
4. SCOE/Auto/Prof. Prof. Prashant Ingle	Minor Research Grant	University of Mumbai	2018 365	30000
5. SCOE/CIVIL/ Prof. Shanti Selvam	Minor Research Grant	University of Mumbai	2018 365	25000
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

<b>10. Number of IQAC meetings held during the year :</b>	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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>
Increase the number of participation of students and faculty in various Conferences, Seminars, Symposiums, Workshops, Faculty Development Programs, training, research and extension activities to enhance the quality of teaching and learning.
Developing creativity, social and environmental ethics among the students through exhibitions, group discussions, study tours. Presentations (oral/ poster) in seminars and conferences for the Holistic Development of the students.
Academic audit of faculty members through teaching plans, daily dairies and feedback from students and self-appraisal forms.
Through the activities of NSS and Cleanliness drives for enrichment of the ecoaesthetic concerns and to prevent the rate of environmental degradation through maintenance of campus discipline.
Organization of on/ off campus recruitment drives through placement cell and established the Entrepreneurship cell to originate an idea in the students to be an Entrepreneur.

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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
Students to identify projects on reuse of water etc.	The theme of Project for the academic year 201819 was use of waste management. Most of the students completed their projects on assigned theme and identified some good projects on water management for current academic year.
Develop a data base for multiple choice	Planned online test for current

questions (MCQ) bank for aptitude which helps students in achieving goal of placement.	academic year
Identify the bright students from entire college for multidisciplinary project.	Implemented
Improvement in technical knowledge their application oriented teaching.	Encouraged students for internship
Coordinated with different organization for consultancy work in Civil department.	Started consultancy on 1) Structural proof check for Design of Sewage Treatment Plant of capacity 0.6 MLD at Vashi naka, Chembur with the organization "J M Enviro Technologies Pvt ltd, Vile Parle, Mumbai" and completed on 11/04/2019. 2) Material Testing of Tor Steel reinforcement bars with the organization "Institution of Engineers, Belapur CBD, Navi Mumbai" and ongoing till date.
It is decided that Mechanical department will organize National Conference on Sustainable Manufacturing & Waste Management.	Mechanical department successfully organized National Conference on Sustainable Manufacturing & Waste Management (NCSMWM-19) on 16/04/2019.
It is decided to train students on Technical paper writing as a part of subject Business and Communication Ethics.	50% students completed Technical paper writing and published their paper in various conferences.
It is decided to select five good projects from each department to represent at various level competitions.	Identified five good projects groups from each department to represent at various level competitions.
Project theme on "Waste Management" has to be finalized.	More than 80% students completed their projects on "Waste Management" and presented in various National level competitions.
R&D Coordinators meeting to be conducted with HOD's in presence of Principal to discuss on minor research proposals.	Conducted meeting and prepared 16 no. of proposals to University of Mumbai for funding.
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
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Name of Statutory Body	Meeting Date
Governing body	17-Sep-2018

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No
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<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2019
Date of Submission	04-Jan-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Saraswati College of Engineering (SCOE), have an online data cum resource management software used to maintain student, staff and resource records for various academic and administrative purposes such as feedback about faculties, course exit, Programme exit, book transaction and online access to library resources. A brief discussion of its usage with respect to the above points is given below:</p> <ul style="list-style-type: none"> <li>i. Administrative procedures including finance: includes student and staff profiles, fee management, accounting, issue of certificates (bonafide, transfer certificate, etc.).</li> <li>ii. Student admission: The College has complete transparency in its admission process. Selection of students is done purely on merit basis declared by DTE, Maharashtra and reservation policy as per the state Government is strictly followed. Counselling of the students and parents were undertaken before and during the processes of admission. Fee structure of the college is in tune with the Vision and Mission of the college, which is highly economical for all social and economic categories of students.</li> <li>iii. Student records: apart from personal profiles, this includes student registration records, marks and grades, student progression data, progress reports, information, etc.</li> <li>iv. Evaluation Examination procedures: Internal assessment examinations are being conducted transparently in the college. The regulations of the university about Internal Assessment are strictly followed. The Examination cell of the college convenes results in time as per the schedule of University. The entire gamut of activities from registration through results, including attendance and other data are captured</li> </ul>

and maintained with appropriate access levels to students, faculty, management, administrative personnel, parents, and other stakeholders. The wide range of extracurricular and cocurricular activities is provided/conducted for students to get an exposure to number of Nonacademic opportunities as well. Various committees are enthusiastically working in this regard. The Placement Cell takes the responsibility of maintaining the cordial relationships with various corporates and arranges recruitment drives for the students. And ensures that the maximum of the students is placed and the end of the academic year. With respect to the Improvement in the teachinglearning process, the college collects the feedback and suggestions from the students and other concerned stakeholders and initiates the valuable one. v. Research administration: The College has a research committee. This committee encourages the faculties and students to take up research projects, participate in paper presentations, write a research proposal. It helps in increasing the number of publications by the faculty member. In the staff profile, there is a provision for faculty members to maintain records of research publications, conferences attended, research grants received, etc. vi. Others: i) Elearning module - this provides an excellent suite of tools for the teachinglearning process, including the provision to set up question banks, conduct online exams, share teaching materials resources, host discussion forums, conduct surveys polls, generate courserelated performancereports, etc. ii) Event Management Event management software helps to keep the record of different events organized.

## 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

Being the affiliated institute, the institute implements the curriculum prescribed by University of Mumbai (MU). All Academic processes are well

established and implemented. Institute has a structured academic plan. For effective implementation of the curriculum, the following process is developed and deployed as per the following documented process: At the beginning of every academic year, the program objectives and outcomes are designed. Along with the same the course objectives and outcomes are defined. The academic calendar and activities are planned to define the time frame. The institution follows the academic calendar which is released before commencement of the semesters and is circulated to all departments. The College encourages its faculty members to participate in Orientation/ Refresher Courses/ Workshops/ Seminars organized by the University so as to update their knowledge and to improve the teaching practices. The college provides ample books and other teaching and reference materials like journals, magazines, teaching models and software to enable its teachers to ensure effective delivery of curriculum. Teachers are trained for modern techniques to be used in teaching. FDP's are arranged to upgrade knowledge of teachers in their areas. Subject distribution is done w.r.t. the subject choice and expertise available in the faculty. Course files, including notes from reference books, text books are prepared and maintained by respective faculty members, for the effective delivery of the curriculum. Assignments and question banks are prepared so as to support the evaluation activity. As per the QMS, the objectives are defined for good academic success, Faculties prepare lecture plans. The observation of the lectures is done by regular monitoring through HOD, Academic Coordinator, Class Teachers, Academic Coordinating committee and Dean Academics. Lecture monitoring format is followed strictly by them. Students' attendance and academic progress for individual course is continuously monitored through teaching plan along with continuous monitoring. The students are classified as slow learners and advance learners by proper observation or by conducting a test. This helps faculties to decide their strategy for personal attention to be provided to slow learners and advanced learners. Remedial lectures are arranged for failure students and academically weak student. Procter system helps for increasing the interaction in faculty and students for positive changes in performance of students. Interactive methods are used to make learning comfortable and interesting for students. Methods like PPT, NPTEL videos, role plays, demonstrations, models, and questioners are used for involving students into the studies. Seminars, group discussions are also used in those methods. Teaching learning is well supported by state of art equipment and infrastructural learning facilities like Central Computing Facility with Internet connectivity, Classrooms, LCD projectors, Over Head Projector, Wi-Fi, Library, department student chapters, Language lab, separate department library etc. Regular conduction of Industrial visits to get industrial exposure for the students. Twice in a semester teacher's feedback is obtained from students and corrective measures are taken accordingly. Parents also give their feedback in PTM's which adds to more improvement in teaching and learning activity. Feedback from industry and alumni is given due importance in defining graduate attributes and design of course outcomes. Views of experts from industry, academia and alumni on curriculum are taken for improving teaching learning process and academics.

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
Networking and Internet Workshop		17/01/2019	1	Focus on Employability	Networking for Internet
Workshop on Cyber Security		07/03/2019	4	Focus on Employability	Various Application and



Technology  
of Cyber  
Security

Arduino Workshop	01/08/2019	3	Focus on Emp loyability	Arduino based Programming
PCB Designing Workshop	01/10/2019	1	Focus on Emp loyability	Circuit design
Workshop on Machine Learning, practical approach in association with Geekslab Technology	22/01/2019	2	Employabilit y	Machine Learning Techniques
Cross Platform mobile Application	28/03/2019	3	employabilit y	Practical knowledge of Mobile Application Development on Cross Platform. Increasing the employab ility skills of students with complete hands-on training.
Block Chain Technology	07/03/2019	1	entrepreneur ship	Block chain technology for e- commerce and e-business
ISCP Workshop on Advance Python	07/08/2018	1	employabilit y	Hands on IPython and Plotting, Saving Scripts, plotting list, Numphy arrays, Basic Scipy, IPython Notebooks.
MACHINE LEARNING THE PRACTICAL APPROACH	22/01/2019	2	employabilit y	The conceptual as well as practical knowledge of Machine

Natural Fibre (The future technology of construction)	04/10/2018	2	Employability/ Entrepreneurship	Learning with various applications and their development. Design of economical water tank made from natural fibre also partially fulfil rain water harvesting
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## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	ITDLO5013 E-Commerce & E-Business	09/07/2018
BE	ITDLO6023 Digital Forensics	07/01/2019
BE	ITDLO6024 Multimedia Systems	07/01/2019
BE	Machine Learning	22/01/2019
BE	CE DLO5062 Advanced Concrete Technology	09/07/2018
BE	CE DLO5063 Building Services and Repairs	09/07/2018
BE	CE DLO6061 Advanced Constructin Equipments	07/01/2019
BE	CE DLO6063 Ground Improvement Techniques	07/01/2019
BE	AEDLO5011 Press Tool Design	09/07/2018
BE	AEE7017 Transportation Management Motor Industry	09/07/2018
<a href="#">View File</a>		

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer	09/07/2018
BE	IT	10/07/2018
BE	EXTC	09/07/2018
BE	Civil	06/07/2018
BE	Automobile	10/07/2018

BE	Mechanical	09/07/2018
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### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	458	0

### 1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
3 Days Workshop on Arduino Programming	01/08/2018	22
Networking and Communication using Internet	17/01/2019	45
PCB Designing Workshop	01/10/2018	62
4 Days Workshop on Cyber security	07/03/2019	34
Guest Lecture on Arduino Programming	24/07/2019	59
Application of IOT and Arduino Programming	25/07/2019	70
Seminar on Avionics of Aeroplane and Career avenues in aviation	18/03/2019	44
Expert Lecture on Digital VLSI Design	05/03/2019	72
Nurture	03/08/2018	55
Training on Aptitude	04/04/2019	60
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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	ONGC Uran Plant	1
BE	Tata Institute of Fundamental Research, Kolaba	3
BE	Smart Garbage Collection And Monitoring System	4
BE	Water cleaning Robot	4
BE	ONGC MUMBAI	1
BE	Diesel locomotive Works, Varanasi (UP)	1
BE	BARC Trombay, Mankurdh	1
BE	MSEB ,Alibagh	3
BE	Doordarshan Sahyadri , Worli Mumbai	14

BE	Telecom Engineer, CSMT Mumbai	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
<p>Feedback is valuable when it is received, understood and acted on. How students analyse, discuss and act on feedback is as important as the quality of the feedback itself. Through the interaction students have with feedback, they come to understand how to develop their learning. Feedback form/formats are designed for the stakeholders. This includes faculty feedback, alumina feedback, student feedback, parent feedback, course exit survey, etc. Faculty feedback from the students for the respective course is taken twice in a semester on various teaching/learning aspects and it is analysed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements. Course exit feedback and program exit feedbacks are taken to analyse the understanding capability of the students. Institute has formulated a mechanism to obtain feedback from students and stakeholders, employers/industries and experts from academicians.</p> <ul style="list-style-type: none"> <li>• Students: Feedback for teaching and learning activity is taken twice a semester. It is an online system. The feedbacks are analysed and conveyed to faculty members. If the feedback is less for any of the faculty member then he or she is made aware about the lacunas if any, and guided by authorities for improvement. A student council is formed in the institute and they are a part of decision making process in each program. Students' council members represent their program and convey their academic issues to the head of the dept. And these are communicated to the university through senior faculty and taken into consideration at the time of syllabus revision</li> <li>• Alumni: Alumni meet is arranged in the institute every year and their views, suggestion are noted. Based on alumni student's suggestion various add on courses are organized in the dept. to meet the industry requirement and making our students employable</li> <li>• Parents: A Parents teacher meet is organized in each semester and issues related to the curriculum are discussed and their feedback is taken for improvement in teaching activity and facilities in the campus.</li> <li>• Employers/ Industries: Training and placement cell regularly interacts with the HR of various industries and their feedback is forwarded to the programs heads and corrective action and courses are design to make the student employable</li> <li>• Academician/ experts: The views expressed by the experts who visit the institute during STTP programs, conferences, add on courses, seminar, guest lecture on the current scenario and requirement of industry are also incorporated.</li> </ul>

#### 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	ME-Mech Manufacturing (PG)	18	4	4
ME	ME -Civil Structural (PG)	18	18	18
BE	Civil I shift (UG)	120	54	54
BE	Civil II shift (UG)	60	19	19
BE	Computer	60	53	53
BE	IT	60	38	38
BE	EXTC	120	13	13
BE	Automobile	60	27	27
BE	Mech I shift (UG)	120	50	50
BE	Mech II shift (UG)	60	15	15

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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
2018	2408	22	176	6	3

## 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
182	182	25	18	6	8

[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)

Guidance and counselling is needed to help the students for optimum achievement and adequate adjustment in the varied life situations. Need analysis of the students in the colleges shows the need of guidance and counselling services, in the education, profession, vocation, social, health, moral and personal areas. Counselling is the service offered to the individual who is undergoing a problem and needs professional help to overcome it. Counselling is an integral part of an over-all programme of guidance. This means the Counselling situation arises when a needy person is face to face with an expert who makes available his assistance to the needy individual to fulfil his needs. The Counselling service in the college was introduced to meet the following needs of the students: 1. To help new students to get conversant with the college environment. 2. To help in the

proper choices of courses. 3. To help the students in vocational development. 4. To minimize the mismatching between education and employment. 5. To identify and help students in need of special help. 6. To differently abled students who need special attention and opportunities. 7. To ensure the proper utilization of time spent outside the classrooms. Counseling is also required when: 1. The student requires not only reliable information but also an interesting Introspection of that information which can solve his personal difficulties . 2. The student needs intelligent listener who has more experience than the pupil to whom he can recite his difficulties and through which can seek Suggestions for his working plan. 3. The student has some problem but he is unaware of that problem and his Development. Some students lack a sense of direction, purpose and fulfilment and thus include in destructive activities which lead to social damage and loss. Adequate guidance and counselling facilities is the only answer to help and guide the youth to worthwhile channels and help them to realize the goals of optimum academic, personal and social development. Problems and needs in society are nothing new, but today they seen to be proliferating at unprecedented rate. The unique problems in the changing family, conflicts in values, attitudes and moral, the new criticism about politics, economic factors, the changing role of work, new pressure and demands in curriculum and the problems of the youth all points out the needs for the counselling services. Different types of Counselling are: ? Guidance and career counseling. ? Mental health counseling. ? Educational Counseling. At Saraswati College of Engineering we understand that the students want to gain as much from their time as possible, both academically and socially. The Counselling Service strives to ensure the welfare of the students by providing them emotional and academic assistance. By looking after their well-being, the Service tries to ensure that College is not just an institute, but a home away from home for them. The academic advice provision is a self-governing, free and personal service that is available to all students. We have a Mentoring (Proctor) system in which around twenty-five students are allocated to individual faculty, who are responsible for all accomplishments carried out by the student. Every semester two to three meetings are conducted by Proctor-in-charge to know and solve the difficulties of students, which are finally seen by Proctor of the department and communicated to the Head of the Department. The action taken report and improvements found in the students after counselling is communicated to the Principal through the Proctor Head of the Institute. Benefits of Proctor System: It was seen that through regular counselling and mentoring the following benefits were observed: 1 Students academic performance was improved. 2. Their confidence was enhanced. 3. Their communication skills were improved. 4. Behavioural changes were observed in students 5. Participation in Social, sports as well as in Technical event was increased. 6. Their concentration was increased.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2430	182	1:15

## 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
191	182	9	23	15

### 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
2018	Dr. Manjusha Deshmukh	Principal	National Research Excellence
2019	Dr. Manjusha Deshmukh	Principal	IACRD (International awards)
2019	Prof.Sachin Solanke	Assistant Professor	Young Emerging faculty Award 2019
2018	Prof Asmita Lakhote	Assistant Professor	Dr. A.B.J Abdul Kalam Life Time Achievement National Award

2018	Ms. Diksha Kumar	Assistant Professor	Recognition for Mentoring students in in India Innovation Challenge Design Contest 2018
<a href="#">View File</a>			

## 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	Computer	BE-VIII	24/05/2019	04/07/2019
BE	Computer	TE-VI	03/06/2019	16/07/2019
BE	Computer	SE- IV	29/05/2019	16/07/2019
BE	Computer	BE-VII	11/12/2018	18/02/2019
BE	Computer	TE-V	12/12/2018	04/02/2019
BE	ComputerComputer	SE- III	05/12/2018	04/02/2019
BE	FEC(201-206)	Sem II (CBCGS)	07/06/2019	17/07/2019
BE	FEC(101-106)	Sem I(CBCGS)	27/12/2018	13/03/2019
BE	FEC(201-206)	Sem II(CBCGS)	18/12/2018	22/02/2019
BE	FEC(101-106)	Sem I(CBCGS)	10/06/2019	13/07/2019
<a href="#">View File</a>				

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

Students admitted are new to the college environment hence they take time to cope with new syllabus. It is difficult to give extra time for the revision, so for testing the knowledge of the student's conduction of class test is useful. Class Test also helps to determine whether students have learned what they were expected to learn or to level or degree of their understanding of the specific subject. Class test is an important tool that is used to measure learning progress and achievement, and to evaluate the effectiveness of relevant subjects. Tests may also measure student progress towards stated improvement goals. Every test is for 10 marks for theory and for Practical exam. Division of marks is as follows: - Attendance - 2 Marks Performance - 5 Marks Oral - 3 Marks Through the test teacher can guess the knowledge level of students and their understanding on the relevant topic. Based on the Class test performance, the teacher can check the difficulty level of any topic and based on this, they can decide which topic, and they must revise in the class. This also helps the students to improve their performance in final evaluation. This class test helps in the better analysis of the students' grade and their performance, thus helping us to know and find the slow learner as well as the advance learner. Based on this test, Teachers can further work towards better performance of the students and their learning capabilities.

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

Every year we prepare the academic calendar for the institute and also a department wise activity schedule for smooth functioning. The academic calendar is displayed on the institute website and also shares with the head of the departments and faculty members to ensure the proper execution of curriculum. Academic calendar contains the plan of activities such as • Beginning of the semester. • Ending of the semester. • Expert lecture and Industry interaction schedule • Technical event • Displaying defaulter list • Taking Feedback • Internal Test examination schedule. • Annual Fest We prepare our students not only for academic success but also to face challenges of their life. All department values continuous evaluation system and encourages the department to organize conferences seminars and workshops and guest lectures thus it creates opportunities to students and faculties to develop themselves professionally and to disseminate knowledge. The first-year department has started its session with induction programme, where students get knowledge about the different courses and schedule for the entire semester, rules and regulations and various activities along with academic calendar. All the events in the semester were conducted according to the dates mentioned in academic calendar prepared by each department. Regular meetings of academic forum, anti-ragging and student grievance cell were conducted according to the need. Study group activities like technical event was organized in the mid-month of semester, social activity was done in last week followed by feedback and first defaulter list. Internal assessment was conducted on the dates mentioned in the calendar followed by PTM. All the activities like defaulter list, feedbacks from students, syllabus compliance, and second internal assessment along with term work submission with orals and practical's done according to the date mentioned in academic calendar similarly in even semester all activities are conducted according to the dates mentioned in academic calendar.

## 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://engineering.saraswathikharghar.edu.in/wp-content/uploads/sites/6/2020/06/Alldept\\_POs-PSOs-COs.pdf](https://engineering.saraswathikharghar.edu.in/wp-content/uploads/sites/6/2020/06/Alldept_POs-PSOs-COs.pdf)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
315461220	BE	MECH-II	75	68	92.2
315461210	BE	MECH-I	153	141	90.7
315424610	BE	IT	74	70	94.59
315437210	BE	EXTC	105	96	91.4
315419120	BE	Civil -II	65	63	96.97
315419110	BE	Civil -I	136	127	93.38
315460210	BE	Automobile Engineering	55	55	100
315424510	BE	Computer Engineering	66	66	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://engineering.saraswathikharghar.edu.in/student-satisfactory-survey/index.php>

### 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	365	BRNS, BARC, Mumbai	13	13
Minor Projects	365	University of Mumbai	0.4	0.4
Industry sponsored Projects	365	ePrabodh Learnings LLP, Pune	0.04	0.04
Minor Projects	365	Mumbai University	0.48	0.48
Minor Projects	365	Mumbai University	0.3	0.3
Minor Projects	365	Mumbai University	0.25	0.2
Minor Projects	365	Mumbai University	0.2	0.1

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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 digital Marketing	Mechanical Engg	04/04/2019
Fire disaster management	Mechanical Engg	05/04/2019
CAD Tech Competiiton	Mechanical Engg	25/04/2019
Auto Inventia	Automobile Engineering	26/04/2019
Machine Learning with hands on PYTHON	IT	02/01/2019
Blocklogy	IT	06/05/2019

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
Extensive work in water sector	Pradnya Latkar	Indian Water Works Association (IWWA)	16/01/2019	Certificate of Appreciation
Identification of Artificial	Jitesh Mistri, Ankit Thamke,	Indian Society for Technical	30/01/2019	Won Second Prize

Ground water recharge potential zones in an urban area using GIS	Sandeep Singh Nachiket Patil	Education (ISTE)		
Best Faculty	Dr. Deepa Parasar	CSI	28/09/2019	Funded Research
WIND TUNNEL	udekar Ajit, Kulkarni Sumit, GurinderSingh Manan, Mirza Shehbaz, Gupta Sunny, Jha Soham Kumar, Kadam Alankar, Pardeshi	SCOE kharghar	08/04/2019	Avishkar Project Competition
FABRICATION OF FUEL BURNER FOR REUSING AUTOMOBILE ENGINE OIL	Dalvi Runil, Gurav Rahul, Thakur Nikhil, Choudhary Mohnish	SCOE kharghar	08/04/2019	Avishkar Project Competition
DESIGN AND FABRICATION OF HYBRID VEHICLES	Nimish Chandel, Omkar Mane, Pranay Dalvi, Majid Shaikh, Gavit Dinesh, Agine Shubham, Jaltare Aniket, Alware Saad	SCOE kharghar	08/04/2019	Avishkar Project Competition

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Healthcare (VESTIGE)	E-Commerce	25/04/2019

[View File](#)

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	1

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

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

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	EXTC	2	0
International	EXTC	3	0

International	Mechanical Engg.	60	0
International	Computer Engineering	3	3.19
National	INFORMATION TECHNOLOGY	10	4.36
International	INFORMATION TECHNOLOGY	1	0
<a href="#">View File</a>			

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
INFORMATION TECHNOLOGY	13
Automobile engineering	2
EXTC	1
Mechanical Engg.	1
Computer	1
<a href="#">View File</a>	

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
Design of MIMO antenna using fractal shape monopole for Wi-Fi, WLAN and satellite communication applications	Prof. Sheetal Bukkawar	International journal of modern electronics and communication engineering (IJMECE)	2019	0	SCOE	0
Study of various mutual coupling reduction techniques in MIMO antenna	Prof. Sheetal Bukkawar	IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India	2019	0	SCOE	0
Detecting the patterns	Dr. Manjusha Deshmukh	International Journal of	2018	1	SCOE	0

of Coronary Artery Disease and Hypertension using Artificial Neural Network		Applied Engineering Research				
Novel Pentagonal shape Meander Fractal Monopole antenna for UWB applications	Prof. Sheetal Bukkavar	Springer Lecture Notes on Data Engineering and Communications Technologies ...	2018	0	SCOE	0
Vehical theft Detection	Prof. Neha Mahjan	National level project competition Srijan 2019,	2019	0	SCOE	0
Image Segmentation Algorithm based on Particle Swarm Optimization and Darwinian Particle Swarm Optimization	Prof. Sneha Burnase	IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India	2019	0	SCOE	0
Image Segmentation Algorithm based on Particle Swarm Optimization and Darwinian Particle Swarm Optimization	Prof. Sarita Kale	IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India	2019	0	SCOE	0
A review of smart shopping mall using Android based Bluetooth	Prof. Sarita Kale	International Conference on Emerging Advanced Trends in Eng	2019	0	SCOE	0

Becons		ineering,A pril 2019				
Accident Detection System With Image Processing	Prof. Sarita Kale	Avalon2019	2019	0	SCOE	0
Smart Automatic Garbage cl assificati on and collection management system	Prof. Vijay Kapure	ICATE-2019 Airoli, navimumbai	2019	0	SCOE	0
<a href="#">View File</a>						

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
A literature survey of methods to study and analyze the gating system design for its effect on casting quality	P.D.Ingle	Elsevier	2018	1	0	VJTI
Automated approach for DDOS attacks detection on naïve bayes multinomial Classifier	Prof. Vaishali Jadhav	IEEE sponsored International conference on Inventive communication and Computational Technologies	2018	0	0	SCOE
Targeted advertising using behavioral data and social data mining	Prof. Pragati Pejlekar	IJRTI International Journal for Research Trends and Innovation	2019	6	0	SCOE
Data	Prof.	Internatio	2019	2	0	SCOE

analysis using dashboard	Pragati Pejlekar	nal Journal for Research Trends and Innovation			
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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	1	32	6	16
Presented papers	25	42	0	0
Resource persons	0	1	0	1
<a href="#">View File</a>				

### 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
Disaster Management Training	NSS	2	40
Say No to Drug Rally	NSS	2	90
Contineous contour trenches ( CCT ) At Borimal Pada, Camp site	NSS	2	50
Shramadaan at Borimal Pada For School Building Renovation	NSS	2	50
Skill Development Training( Disaster Management Workshop )	NSS	2	80
Massive Blood Donation DriveA	NSS	2	80
Urban Safari (one day trip for the kids of Borimal pada ( Their Adopted Village )	NSS	2	75
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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	0
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
SwachhaBharatAbhiyan	NSS	Cleanliness at SCOE campus	2	92
SwachhaBharatAbhiyan	NSS	Cleaning of Offices, complexes, toilets garbage of District zonal Office(Cleanliness at Panvel Post Office )	2	55
SwachhaBharatAbhiyan	NSS	Cleanliness drive to clean street and common places (Cleanliness at Kharghar Railway Station )	2	85
SwachhaBharatAbhiyan	NSS	Motivation resulting into construction of toilets(Session at Borimal pada Camp )	2	50
Defecation Free Campaign:	NSS	Motivation resulting into construction of Toilets/ activity for construction of toilet (Maintenance of previously built toilets at Borimal Pada , Camp location)	2	50
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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
--------------------	-------------	-----------------------------	----------

Internship	Abhijeet Hodbe	personal	45
Eight days internship program on electric and gasoline ATV/Formula student race car design development	72	NIL	72
Industrial internship training program on NX 11	06	NIL	15
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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
Industries	Summer Internship programme	Internship/ Cidco	15/06/2018	30/06/2018	112
Internship	Face Recognition AI machine Learning	Blocklogy Edutech Pvt. Ltd	11/06/2019	30/06/2019	Neha Gawde
Internship	De centralised Voting System	Blocklogy Edutech Pvt. Ltd	22/03/2019	31/12/2019	Ajay Matkar, Shrutii Mirajkar, Sayli Karande
Internship	AIESL Website and ACM web form	AIR INDIA LTD	10/06/2018	10/07/2018	Sanika Manchekar
Internship	Web Development and Android App development	Mauli Enterprises	01/12/2018	30/12/2018	Akshay Bade
Internship	Management Section	Jawaharlal Nehru port Trust (JNPT)	01/12/2018	15/12/2018	Sonal Chavan
Internship	PHP, CSS, Content modeling system	Hungama Digital media Entertainment Pvt. Ltd Mumbai	03/06/2019	06/07/2019	Anup Pawar
Internship	Game development	Indiawyn Gaming Pvt Ltd	25/10/2018	25/01/2019	AkshayNetake



Internship	Database : one click to fill information	Iplit Solution	01/01/2018	15/01/2018	Kirti Deshmu kh,Aishwarya B. ,Sayali M.
<a href="#">View File</a>					

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
Blockology EDUTECH pvt ltd	01/03/2018	FDP, Workshops	191
DECODETECH IT Industrial Training	07/05/2019	Training Program, Seminar , Internships	191
S B Infotech, Jalgaon	03/03/2018	Seminar	35
CMS IT services Pvt. Ltd.	01/03/2018	Faculty Development Program	10
Blocklogy Edutech Pvt. Ltd	26/04/2019	Internship, Faculty Development Program , Research Co-operation	55
CADD center of Training Services	10/05/2018	Value added employable skill development training	1
Anjuman -I-Islam's Kalshekar Technical Campus School of Engineering	01/03/2018	Practical	2
CADCORD TECHNOLOGIES PVT.LTD	20/02/2019	DEVELOP Entrepreneurship and Business collaborations	202
ATS Infotech pvt ltd Microsoft-AEP(Authorised education partner	16/01/2019	Educational	1
CEMS, Mumbai	10/05/2019	Internship program	6
<a href="#">View File</a>			

#### **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
600	501.39

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
<a href="#">View File</a>	

#### 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
Biyane Technologies Library Management Systems.	Fully	0	2016

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21629	5383248	332	170027	21961	5553275
Reference Books	4981	1587340	154	79939	5135	1667279
e-Books	0	0	10000	85000	10000	85000
Journals	105	254675	106	266775	211	521450
e-Journals	0	0	4500	0	4500	0
CD & Video	1946	0	21500	0	23446	0
Weeding (hard & soft)	42	9326	0	0	42	9326
<a href="#">View File</a>						

##### 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
Sagar Khatavkar	Module 2( TOM II - Velocity of Mechanism)	IIT Remote Centre lab, 2nd floor, SCOE	24/10/2018
Amit Patil	Module 1(Mechanical	IIT Remote Centre	25/10/2018

	Vibration Newtons, Rayleighs, Energy Method)	lab, 2nd floor, SCOE	
Chodankar Vishnudas	Module1(Heat Transfer-Conduction)	IIT Remote Centre lab, 2nd floor, SCOE	25/10/2018
Chodankar Vishnudas	Module5(Heat Transfer-Bolilng)	IIT Remote Centre lab, 2nd floor, SCOE	28/10/2018
Chetan Thakur	Module1(I.C. Engine- Air Standard Cycles)	IIT Remote Centre lab, 2nd floor, SCOE	25/10/2018
Mandar Jagtap	Module4(Engineering Drawing-Projection of solids)	IIT Remote Centre lab, 2nd floor, SCOE	25/10/2018
Lalit Bhoje	Module 2(Autotronic s-Electrical and Electronic Comparator)	IIT Remote Centre lab, 2nd floor, SCOE	28/10/2018
Lalit Bhoje	Module 3(Autotronic s-P-chart)	IIT Remote Centre lab, 2nd floor, SCOE	28/10/2018
Mohd. Bargir	Module3( CAD/CAM/CAE-Canned Cycle)	IIT Remote Centre lab, 2nd floor, SCOE	28/10/2018
Prof. Vaishali Jadhav	Magic of C	LMS	27/09/2018
<a href="#">View File</a>			

#### 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	710	25	2	1	1	1	6	100	0
Added	10	0	0	0	0	0	0	0	0
Total	720	25	2	1	1	1	6	100	0

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

100 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
IIT Remote Centre lab, 2nd floor, SCOE	<a href="https://www.youtube.com/channel/UCM14Iw97mnCoNZCI8knb5Uw/playlists?view=50&amp;sort=dd&amp;shelf_id=5">https://www.youtube.com/channel/UCM14Iw97mnCoNZCI8knb5Uw/playlists?view=50&amp;sort=dd&amp;shelf_id=5</a>

#### 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
1215.36	114.39	0	0

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

The institute has policy to create best infrastructure for holistic development of the students. Following infrastructure facilities are available in the campus of SCOE: • Well-equipped Laboratories , Library ,Well-furnished classrooms and tutorials • Internet/WIFI • Transportation • Gymkhana • Canteen • Training , placement and carrier guidance cell • IT resource • Human Resource • Well-furnished auditorium with 300 seating capacity • Seminar halls • Auditorium • Research and development cell • Entrepreneur Network cell In view of syllabus, additional courses, students, admissions, etc. Principal, Dean of academics, Dean of Administration and Head of departments identify requirements and prepare budgets for laboratory and other requirements. Accordingly management upgrade facilities with the help of experts in the concerned areas.

There is an institutional mechanism for maintenance and upkeep of the infrastructure, facilities and equipment of the college. The available infrastructure is utilized optimally in the following aspects. ? The college analyses the requirements of major facilities like building , furniture, computers, lab equipment and consumables and other teaching facilities every year, accordingly budget is allocated for it's up keeping and maintenance. The maintenance contracts for computers, printers, lifts, water coolers, air conditioners, water purifiers, fire fighting system, housekeeping etc. are renewed periodically. To enforce the action plan for implementation of quality policy, eight different processes are defined by institute, and those are as follows: • Well defined academic processes for the effective conduction of all academic activities. Administrative policies for development of well-equipped infrastructure. • Examination processes for smooth conduction of examination and adherence to university rules and regulations. • HR policies for selection and development of quality staff members including teaching and administrative. • Library mechanisms to set up and maintain the state of the art library. • To follow all ISO procedures running successfully and all timelines of audits are met positively. • Student section processes for admission and enrolment, eligibility and scholarships of admitted students • Training and Placement processes for ensure maximum in-campus recruitment.

<https://engineering.saraswatikharghar.edu.in/wp-content/uploads/sites/6/2018/12/Procedures-and-Policies.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	Scholarship and Freeship	1114	76011945
Financial Support from Other Sources			
a) National	Shri Brihad Bhartiya Samaj	12	180000

b)International	Nil	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Proctor system	07/01/2019	276	Department
Proctor system	01/08/2018	276	Department
Soft skill development- NURTURE	31/07/2018	65	SCOE
Counselling of weak Students and Defaulters	01/08/2018	30	Department
Projects guidance	01/08/2018	75	INSTITUTE
Mentoring for participation in international competition	01/08/2018	3	INSTITUTE
Campus to Corporate	27/07/2018	75	INSTITUTE
Nurture	23/08/2019	77	INSTITUTE
Nurture (soft skill Development)	04/09/2018	84	INSTITUTE
Two day workshop on natural fibre:- The future technology of construction	04/10/2018	282	IWWA CESA
<a href="#">View File</a>			

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
2018	Amity University counselling For PGDM	0	105	0	2
2019	Introduction to Project Management course (PGDM) NMIMS	0	122	0	0
2018	Aptitude test training by vinay raikar	190	100	8	32

2018	Aptitude test training by vinay raikar	190	100	8	32
2018	Java Training	71	71	0	41
2018	.Net Training	4	4	0	1
2018	Campus to Corporate	0	29	0	29
2019	Seminar on higher studies(by Gate Forum)	43	65	1	30
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

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

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
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 Excel sheet Uploaded	1039	191	Refer Excel sheet Uploaded	267	110
<a href="#">View File</a>					

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
2019	1	Mumbai university	Civil Engineering	VJTI, Matunga	MTECH
2019	1	Mumbai university	Civil Engineering	Narsee Monjee institute of management studies	MBA
2019	1	Mumbai university	Civil Engineering	Narsee Monjee Institute of Management Studies, Vileparle	MBA

2019	1	Mumbai university	Civil Engineering	Deakin University	MS
2019	1	Saraswati college of engineering. Mumbai University	Automobile Engineering	Northeastern University College of Engineering, Massachusetts	MS
2019	1	Saraswati college of engineering. Mumbai University	Automobile Engineering	Amrutvahini College of Engineering, Sangamner, Maharashtra	ME
2018	1	Saraswati college of engineering. Mumbai University	Automobile Engineering	Siegen, Germany	MS
2018	1	Saraswati college of engineering. Mumbai University	Automobile Engineering	New York Institute of Technology Vancouver	Management Program
2018	1	Saraswati college of engineering. Mumbai University	Automobile Engineering	San Jose University, Germany	MS
2018	1	Saraswati college of engineering. Mumbai University	Automobile Engineering	State university of Newyork	MS

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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	3
GRE	7
TOFEL	12
Any Other	5

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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
Sports-Taekwondo	Level-National	1
Sports-Cricket	Level-University	7
Sports-Swimming	Level-University	1
Sports-Volly Ball	Level-University	1

Teachers day A celebration of gratitude towards the moulders of the world 5/09/18- 2.00 pm onwards 2.00-5.50pm	College Level Fun activities for teachers	452
Cultural club auditions Identifying the talents and forming the clubs 3,4/09/18- 2.00pm onwards	College Level	200
Freshers auditions Identifying the new talent 6,7/09/18- 4.00pm onwards	College Level	250
Ganpati Festival , Grand welcoming of the lord Ganesh 12/09/18- 2.00pm onwards 2.00-3.30pm :Banjo 3.30-4.30pm : Dhol tasha	College Level	100
Freshers party Welcoming and show casing talent of freshers 28/09/18- 4.00pm onwards	College Level	800
Garba night ,Celebrating the enchanting festival 10/10/18 - 4.00pm onwards	College Level	1000
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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
2018	International Open Individual Chess Championship Chennai. India Gold Medal and Cash Prize Rs. 1.21 L	International	1	0	BE C 05	Sujay Bhamare
2019	National Level Tennis Cricket Tournament ICT at Khalsa Cricket Ground	National	1	0	TE B 21	Swapnil Mali



2019	KJ SOMAIYYA COLLEGE OF ENGG, VIDYAVIHAR	National	1	0	TE B 21	Swapnil Mali
2018	INDO - Sri Lanka 8th Karate Championships won one gold and one bronze in Competition	International	2	0	SCOE FE-C	Mr. Prathamesh Shirodkar
2018	Karate competition won 1 Gold and 1 silver	National	2	0	FE-A (Civil)	Mr. Jignesh Mhatre
2019	National level Chess tournament	National	1	0	Mechanical (BE-C)	Mr. Sujay blare
2019	Thai boxing Gold medal	National	1	0	S156028	Mr. Gurinder singhmanan
2018	Bronze Medal	National	1	0	Civil-A	Vishwabhusan Dabhade
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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)

Student councils offer a representative structure for students, through which they can become involved in the affairs of the college, working in partnership with College management, staff and parents for the benefit of the College and its students. Student council or Student body is a curricular or extracurricular activity for students within college and inter college .The student council helps to share students' their ideas, interests, and concerns with teachers and College principals. They often also help raise funds for College activities, including social events, community projects, helping people in need and College reform. Student Council Role: 1] To promote the interests of the students, 2] To assist and advise the students, 3] To be the link between students and teachers and Management. Responsibilities of the Student Council: 1] Smooth Conduction of the Institute Annual Day every year, 2] Smooth conduction of Foundation Day every year, 3] Conducting Fresher's day every year, 4] Prevention of ragging in the campus through counselling senior students, helping the administration whenever necessary, 5] Suggesting the administration to improve the student amenities to improve their career and personality building, 6] Helping the administration in smooth conduct of student activities on the campus, 7] Guiding the junior and needy students to improve their technical, organizational and managerial skills by organizing seminars/ symposia/ workshops etc, 8] Encouraging innovative and creative skills of the under graduate and post graduate students, 9] Organize the programs in the campus to improve the cleanliness and greenery in campus, 10]

Any activity to improve the knowledge and skills of the campus students, 11] Maintenance of the peace and harmony among campus community in General and student community in particular. Activity of Council :- Fresher's Party , Independence Day, Youth Festival, Women's in Defence Seminar, Ganpati Festival, Garbha Festival, Teachers Day, Foundation Day, Deepotsav Festival, Republic Day, Ride for Pride {SUPERBIKES EXHIBITION}, Theme Release, Nakshtra, Women's Day, Holi Celebration.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

• Alumni activities are regularly arranged and annual alumni meet are organised to discuss and enhance wholesome education and development of institute. • Alumni members help the institution in every possible extend. They are regularly invited to interact with the students. • They come and share their expertise from various fields like government, academia, corporate world, startups etc. • Alumni are active members of IQAC and their inputs are helping us for quality enhancements.

5.4.2 – No. of enrolled Alumni:

11

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

75000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Meetings and Activities during the year: SCOE Alumni Association Conducted meetings twice a year. The agenda for the meeting is 1) To increase the number of alumni registrations. 2) Career development for SCOE Students. 3) Arranging Various workshops and Seminars. The Association conducts activities like 1) Placement Drive. 2) Institute Collaboration with academic and research institutes. 3) Workshops and Seminars for Career development. 4) Website development of Institute.

### 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)

An organized method has been established by institute for work towards decentralized governance system. It is observed that decentralization of system improves work effectiveness and smooth functioning of Institute. Working of governing body comprises problems conveyed by Local management committee Principal monitors the academic processes through the head of the departments and academic coordinators and teachers. The Principal of the Institution conducts regular meetings with the staff with prior notification. The Heads of Departments observe the functioning of their respective departments. The participative decision-making ensures total participation of all the faculty of the department. The Registrar is administration head of the institute, supported by office staff. The participative management is promoted at various levels in the institute. Departmental meetings are conducted for discussing common issues. The Principal with the Heads of the Departments discusses the needs, problems and suggestions to improve the educational quality and infrastructural improvements to talk to the top management for further action. There are various Cells established to manage different institutional activities. The list of available Cells/committees is as follows: • Governing

body • Local managing committee • Academic Control Committee • Staff selection committee • Research and Development Cell • Training , Placement and carrier guidance cell • Student grievance Cell • Student Welfare and Grievance Cell • Examination Cell • Library Cell • Internal Quality Assurance Cell (IQAC) • Entrepreneurship Cell • Admission Cell • Women development cell • Women Grievance cell • Anti-ragging cell • Entrepreneurship Network cell • Industry Institute Interaction cell • Purchase committee • NSS unit • Time table committee Faculty members can discuss their issues with the HOD's and the LMC committee, and provide suggestions for expected changes in processes, which are conveyed to top management in meetings. After receiving feedback from the stakeholder's management implements suggestions through the respective departments, which will further be communicated to the staff for improving the effectiveness and efficiency of the institutional processes. The management encourages and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes by: • Provision of special leaves for higher studies. • Faculty members are encouraged for participating in training programs, workshops, symposiums and refresher programs. • Involvement of the staff members in decision making. • Institute also motivates staff members for higher studies and gives increments after completion of higher studies. • Motivating honoring the staff for their successes in academic and research activities. The management had been very involved with the entire process of NAAC accreditation and its implementation. Requirements related to academics or administrative works were conveyed to the management through the IQAC team and Principal and necessary actions were taken.

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
Admission of Students	<p>The major and only sources of institutional receipts/funding is the fees of students, the college proposes the annual budget based on the admissions filled in for that academic year and as per requirements. • To make the SCOE administration Student friendly for long term association and satisfactory admissions. • Smooth functioning in Student section to handle processes for admission and enrolment, eligibility and scholarships of admitted students. • DTE approved Centralized admission center (ARC) • Admission standards for distinctive categories (SC/ST, OBC, Women, differently abled, economically weaker and Minority sections) are all followed accurately Support Institute provides facilities and support in following aspects: ? Appreciation of Topper students in examination through attractive cash prizes and certificates. Book-bank schemes, Motivating students for publishing and presenting papers and competing in</p>

different conferences and technical festivals. ? Promoting organizational and leadership qualities by organizing programs through the student Councils and association. ? Guidance for referring available online journals, materials. ? IIT remote workshop center in process. ? IIT library membership. ? Financial support for participating in outside project competition.

Industry Interaction / Collaboration

When Industry and College work in tandem to push the frontiers of knowledge, they become a powerful engine for innovation and economic growth. For improvement of quality the institute has conducted faculty interaction session with the staff and Industry delegates. Along with that Seminar were conducted from the industry personal for the students to make them aware about the latest trends in the industry. The Training and placement cell also conducted Industry visit for students along with staff members, also Technical conference (National / International) were arranged to initiate effective collaborative or independent research based on the policies on both the Institute and Industry. Over time, a well-managed partnership had produced a growing number of professors and graduate students who can think and act across the cultural divide, connect with the key research interests of a company and work harmoniously to define big and common strategic goals.

Human Resource Management

- Institute has implemented new system to communicate or send notice interdepartmental via email or WhatsApp to reduce time and usage of paper.
- Institute has introduced new software for applying leave.
- Institute has encouraged faculty members to pursue PhD by providing sponsorship.
- Institute has started various staff welfare scheme like one day out, seminar on Stress Management, Motivation, leadership, unity, etc.
- Institute has started soft skill program for non-teaching staff members for improvement of their skills.
- Institute has started to teach basic MS-CIT course to all non-teaching staff.
- Institute has arranged various social programs on Teachers Day, Women's Day, etc. for unity in staff.

Library, ICT and Physical  
Infrastructure / Instrumentation

Library: Books are added as per department requirement. Adequate journals are provided to users. Library circulation work like Issue and Return of books are maintained using KOHA open source Library software. • In-house Printing of barcodes. • Every class has library hour. • For project work information ready reference service provided. • One extra book issued to topper student of every class. • Return notice of books e-mail directly through software. • Stock verification of library books done at the end of every year. • Online feedback of user. • ICT facilities are continuously upgraded to make more smart classrooms and provision of video lectures and NPTEL videos are made. Students and faculties are making use of digitized library Upgradation in physical infrastructure is also a continuous process wherein all the requirement needed for the smooth functioning of the college campus are provided. • In the campus that is spread across 2.25 acres, in addition to 38 classrooms, 58 Laboratories, 6 seminar hall, 1 auditorium, 1 video center has been newly added. • 5 Classrooms with Wi-Fi/ LAN has been newly developed. Always continuous upgradation in the campus infrastructure is initiated.

Research and Development

Saraswati College of Engineering has been recognized as a research oriented centre. The Research and development cell is formed to monitor and address the issues of research and its roles and objectives are well defined. Under the Research and development cell, the institution takes measures to facilitate smooth progress and implementation of research scheme and takes efforts in developing scientific temper and research culture and aptitude among students. Faculties involvement in active research projects and collaborative research activities are encouraged .Workshops, training programmes are organised by the institution with focus on building research culture among staff and students. • One major project has been submitted to BRNS and a funding of 13 lakhs has been received • 5 minor research projects have been granted from university of Mumbai • 48 MOU'S has been established till 2018-19

Examination and Evaluation

University Reforms adopted by the institute. Institute follows the Mumbai university guidelines for conduction of examination and evaluation of students and Result Preparation Process, moderation, Gazette, Internal Evaluation process. Reforms initiated by the Institute Continuous assessment of practical are done by using academic diary. Maintenance of score records with respect to performance of students is awarded for final exam score. The faculty enters attendance and marks of the students periodically. Records of marks are finally sent to university. Institute conducts surprise tests per semester for every subject, mock oral examination. The college calls external examiners for conduction of practical exams and vivavoce from the approved panel of examiners. The Institute has self-defined practice of masking and coding the papers for second and third year examinations which are conducted on behalf of university. Mini Projects and their presentations are assigned to second and third year students though they are not mentioned in the syllabus for better learning of students, which are evaluated and guided by teachers. Internship is made compulsory to all third year students to give them industrial exposure. Their reports are evaluated by teachers. • Security measure is enhanced in examination section to avoid any malpractices through CCTV camera and data retrieval capacity for 3 months • Separate enhanced UPS facility in exam cell related to exam DEPDS work • Results of second year and third year examinations are declared within a span of 35 days • Revaluation result declared within 2 months

Teaching and Learning

All Academic processes are well established and implemented. Quality objectives for academic processes are reviewed after every year and measures are taken to improve the quality in Academics. Appointment of faculty with subject experience- HR section takes care of appointing senior qualified and experienced faculties. ? Continuous monitoring on process- Academic monitoring committee reviews teaching learning process and teaching methods and proper suggestions are given for improvement if required. ? Continuous

evaluation- Assignments, Tutorials and Practical's are assessed by faculty throughout the semester for continuous improvement in students. ? Specialized Training-Training need identification is done by HR and departments for deciding the type of training to be imparted to faculty. ? Review of teaching methods- Review of teaching methods skills, content and implementation are monitored on regular basis by analyzing progress reports and feedbacks from students. ? Feedback- Feedback is taken from students twice a semester and if not found adequate then counselling of faculty is done by principal for improvement in performance. ? Action for improvement- Counselling meetings are conducted for faculty with less feedback and suggestions are given in specific areas of improvement. ? Work load distribution- Work load for every semester is done well in advance based on faculty competency, teaching experience, expertise, result analysis and feedback of students. ? Proctor system- Proctors are assigned for a group of students who takes care of the difficulties of the students to improve academic performance and their overall wellbeing. ? Faculty Meetings- Departmental meetings are organized regularly to review the progress of teaching learning and to solve problems if any. ? Teaching aids- Modern teaching aids such as LCD/OHP/CD's/DVD's are utilized for an effective delivery of the subject to the students. Internet facility available across the campus to support teaching learning process. ? Laboratories: Laboratories are well equipped with advanced technology equipment and revised syllabus for better delivery of practical aspects of subject. ? Research: Faculties from all departments are encouraged to submit research proposals to different research and funding organizations. They are also encouraged for doctorate programs. ? Special attention to slow learners and remedial classes for failures and DSE students are also taken care of. Leased line of 100 MBPS internet facility is available for faculty and students.

Curriculum Development

Our institute is affiliated to Mumbai

University and bound by its curriculum. The university appoints senior faculty members as members of Board of Studies/Syllabus committee/Syllabus revision committee etc. The senior faculty members of our institute are part of syllabus revision committee of various programmes As per the suggestions received from various stakeholders, faculties suggest the changes in the syllabus to be induced in the process of syllabus revision.

Analysis of prerequisites of every syllabus content, designing the course objectives and outcomes and program objectives and outcomes is done by concerned faculty of departments along with proper planning and implementation of curriculum. The institution has also adopted the concept of Quality circle wherein the suggestions given by members of quality circles are conveyed to the syllabus revision committee for inclusion. College has representation in BOS of various programs, which facilitates inclusion of views of faculties and advisory committee members of college at university level.

Faculties of each department are deputed to participate in orientation/refresher course of revised syllabus. A student council is formed in the institute and they are a part of decision making process in each program. Student's council members represent their program and convey their academic issues to the head of the dept. And these are communicated to the university through senior faculty and taken into consideration at the time of syllabus revision.

Alumni:  
Alumni meet is arranged in the institute every year and their views, suggestion are noted. Based on alumni student's suggestion various add on courses are organized in the dept. to meet the industry requirement and making our students employable.

Parents: A Parents teacher meet is organized in each semester and issues related to the curriculum are discussed and their feedback is taken for improvement in teaching activity and facilities in the campus.

Employers/  
Industries: Training and placement cell regularly interacts with the HR of various industries and their feedback is forwarded to the programs heads and



corrective action and courses are design to make the student employable  
 Academician/ experts: The views expressed by the experts who visit the institute during STTP programs, conferences, add on courses, seminar, guest lecture on the current scenario and requirement of industry are also incorporated.

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

E-governance area	Details
<p>Planning and Development</p>	<ul style="list-style-type: none"> <li>• Department has planned to execute full-fledged Research and development cell for teachers and student. • Department has planned to organize various program for overall personality development of students and faculties.</li> <li>• Department is planning to expand the consultancy work. • Department is planning to start vocational courses for students. Development • Special efforts for Skill development and add on courses offered to students. • Distinctive efforts for Personal professional development of students Ethical, stable, proactive conducive environment for holistic development of the Institute. • Developing Incubation center under Entrepreneurship Development cell. Professional Development • Promote the proficient and academic growth of the staff by arranging FDP programs and promoting higher education. • Dynamic participation in the selection, planning, and implementation of professional development activities for the staff.</li> </ul>
<p>Administration</p>	<ul style="list-style-type: none"> <li>• To perform realistic scientific analysis about the existing administrative load of every Administrative department throughout the academic year. • Use of Orange HRM software for leave approval and sanctioned. • To interact with managements for purchase /up gradation of new equipment. • To interact with the HODs about the availability of test equipment. • To prepare a detailed department wise budget report for every academic year regards provisions for laboratory and other purchases well in advance to start of the academic year.</li> <li>• To prepare and facilitate the in-house co-curricular activities. • To make the SCOE administration Student</li> </ul>

friendly for long term association and satisfactory admissions. • To mentor students faculty towards contribution towards social responsibilities.

Finance and Accounts

For improvement of Finance Account, we adopted Cashless Accounting System in our institute and for that we tie-up with the Punjab National Bank as a Pay Fees System, and that help to Students as well as Parents. They can pay fees through Online by using our Institute website. They can see their balance fees as well as any other charges which is enforce by the college. Student can use all Cards as well online transaction for paying fees or any dues, which charges bear by the college. Students can analysis and see their own account and pay their fees according to that.

Student Admission and Support

- Saraswati College of Engineering ensures smooth execution regarding its admission procedure which is highlighted in the brochure published every year.
- Institute is involved in centralize admission process of DTE and Government of Maharashtra, all the rules, regulation and guidelines for merit admissions for CAP are strictly followed every year. Institute Level admission percentage is decided by DTE as per the DTE guidelines, Institute has framed its procedure for conduction of management admissions. As per the DTE Maharashtra rules the college admits 20 reservation seats in the management quota.
- The major and only sources of institutional receipts/funding is the fees of students, the college proposes the annual budget based on the admissions filled in for that academic year and as per requirements.
- To make the SCOE administration Student friendly for long term association and satisfactory admissions.
- Smooth functioning in Student section to handle processes for admission and enrolment, eligibility and scholarships of admitted students.
- DTE approved Centralized admission center (ARC).
- Admission standards for distinctive categories (SC/ST, OBC, Women, differently abled, economically weaker and Minority sections) are all followed accurately.

Examination

- Institute follows the Mumbai university guidelines for conduction of

examination and evaluation of students and Result Preparation Process, moderation, Gazette, Internal Evaluation process. • To prepare gazette Viva software is used by the examination cell. • Most of the communication with the Mumbai University is via email. • Online Hall tickets for first year and final year students are provided on the college website for the students to download.

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Vaishali Jadhav	Blocklogy	CSI	5000
<a href="#">View File</a>				

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	Machine Learning with hands on PYTHON	NA	02/01/2019	04/01/2019	28	0
2019	Blocklogy	NA	06/05/2019	10/05/2019	29	0
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Orientation on Automotive Materials	1	14/01/2019	14/01/2019	1
Orientation on Mechanical Vibration	1	16/01/2019	16/01/2019	1
Orientation on Mechatronics	1	22/01/2019	22/01/2019	1
Orientation on CAD/CAM	1	10/07/2019	10/07/2019	1

Orientation on Automaive Design	1	15/07/2019	15/07/2019	1
Orientation on Autotronics	1	16/07/2019	16/07/2019	1
Orientation Programme- Applied hydraulics	1	06/07/2018	07/07/2018	2
Orientation Programme- Advanced Construction Equipment	1	03/01/2019	03/01/2019	1
Orientation Programme- Geotechnical Engineering-II	1	03/01/2019	03/01/2019	1
Orientation Programme- Transportation engineering-II	1	03/01/2019	03/01/2019	1

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
55	182	72	87

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>• Urgent provision of financial help to staff in case of medical emergency.</li> <li>• Provision of maternity leave to female faculty members.</li> <li>• Provision of uniforms to attendants.</li> <li>• Faculty is provided financial assistance and on duty leave for publishing the technical papers in National/International reputed Journals conferences.</li> <li>• EPF - Paid as per PF Act to all the employees.</li> <li>• Gratuity - Paid as per Gratuity Act.</li> <li>• Group insurance policy for teaching staff</li> </ul>	<ul style="list-style-type: none"> <li>• Provision of maternity leave to female non-teaching ladies staff.</li> <li>• Provision of uniforms to attendants.</li> <li>• Faculty is provided financial assistance and on duty leave for publishing the technical papers in National/International reputed Journals conferences.</li> <li>• EPF - Paid as per PF Act to all the employees.</li> <li>• Gratuity - Paid as per Gratuity Act.</li> <li>• Group insurance policy for nonteaching staff</li> </ul>	<ul style="list-style-type: none"> <li>• Grievance redressal cell</li> <li>• Placement and Counselling cell</li> <li>• Annual Prize Distribution (Culture /Sports)</li> <li>• Soft Skills Programmes</li> <li>• Career Guidance Scheme</li> <li>• Student-related Seminar/Conferences/Workshops/Camps etc.</li> <li>• Canteen facility</li> <li>• Transportation facilities are provided to the students to travel between kharghar railway station and the institute in subsidized cost.</li> <li>• Institute is organizing number of events under NSS and students from all programs are part of the NSS team.</li> <li>• Student's council is formed in the</li> </ul>

institute to contribute in the academic development, to provide encouragement for participation in extracurricular activities. Ganesha utsav, sports activities, annual culture programme "Nakshtra". • Roctract club of Saraswati college of Engineering is active in arranging different types of students activities like blood donation, illiteracy removal program, sports activity, marathon, social awareness program, women's safety, paper presentation, clean up drives, Nirbhaya campaigns, Ecofriendly Ganesha making etc. • GIC group insurance of students have been initiated from the academic year 2015-2016 • Health service -An MOU is signed with the Yerala Medical Trust to take care of medical emergency.

#### 6.4 – Financial Management and Resource Mobilization

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

Institute conducts Internal Audit System as well as Statutory Audit System which is conducted after 6 months once in year. In Internal Audit System we adopt the policy for internal check as well as internal controlling system. In daily transaction vouchers prepared through online and online sanctioned by our Higher Authority. After voucher sanctioned by Higher Authority voucher is paid. Our transactions approved by three different authorities. Physical stock of Stationery and other material taking once in year. We conduct Statutory Audit as per Statutory and Accounting standard. Statutory Auditors come on place and done the audit as per Statutory norms and Accounting Standard.

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
Management	92000	NSS Camp
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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	Academicians from other Institutes	Yes	Dean Academic
Administrative	Yes	Academicians from other Institutes	Yes	Dean Administrative

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

• Feedback Collected from PTA organized were effectively used for Quality improvement in all aspects. • Members of PTA working in industry helped in training and placement activities and in arranging Industrial visits. • Visit to sewage treatment plant Dtd. 31/8/2018. • Summer training to students Dtd. 10/6/2019. • Arranged internship for 4 students in Irrigation Dept, Konkan Bhavan, NaviMumbi in May 2019. • Arranged Site visit for BE students to STP, Nerul, Navi Mumbai in September 2018. • Sponsorship of Rs.8500 for workshop on Natural Fibres in concrete from S.M.C Infrastructures. • Sponsorship of Rs.2000 for workshop on Natural Fibres in concrete from H.H Paithodi Associates.

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

• The institute conducts Skill Development courses for the supporting staff. • Encourages supporting staff to enrol for certification courses. • Conducted workshop on Personality Development by Prof. Seema Singh (FE Dept).

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

• Preparation for NBA. • Application to NIRF ranking. • Initiatives for promoting research among faculty members. • Strengthening consultancy policy.

### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Academic Administrative Audit (AAA) conducted and its follow up action	07/06/2019	07/06/2019	07/06/2019	250
2018	Preparation for Participation in NIRF	05/10/2018	05/10/2018	31/10/2018	250

2019	Preparation for ISO certification	14/01/2019	14/01/2019	14/03/2019	250
2018	Application for Various awards, Rewards and Compitations	01/01/2018	01/01/2018	01/04/2019	250
2019	Faculty development programme in Q1 for Teaching staff	19/06/2019	19/06/2019	19/06/2019	138
2019	Self Upgradation training programme for Non-teaching staff	05/07/2019	05/07/2019	05/07/2019	97
2019	National Conference on Sustainable Manufacturing Waste Management (NCSMWM-19)	16/04/2019	16/04/2019	16/04/2019	250
2018	International Conference - Global Meet on Advances in Design, Materials Thermal Engineering (GMADMT-18)	11/01/2018	11/01/2018	12/01/2018	300
2019	Avishkar-2019	03/04/2019	03/04/2019	04/04/2019	458
2019	INNOVATION 2019 Poster Competition	02/03/2019	02/03/2019	02/03/2019	50
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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

Womens Day Celebration	08/03/2019	08/03/2019	98	0
Fashion Show	22/02/2019	22/02/2019	15	9
Dance competition	22/02/2019	22/02/2019	12	15

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

1. Students from CESA (Civil Engineering Student Association) and IWWA (Indian Water Works Association) participated in two days Workshop on Natural Fibre The Future Technology of Construction followed by construction of Natural Fibre Ferro cement tank 2. Students of Civil Engineering Department has participated in 7 days Residential Camp (21-28 Dec 2018) organised by NSS unit of Saraswati College of Engineering at Borimal Pada, Umbre Grampanchayat, District-Raigad. Three major works were undertaken a. Construction of Continues Contour Trenching b. School Renovation c. Compound Fencing and maintenance of tank

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	2
Ramp/Rails	Yes	1
Braille Software/facilities	No	0
Rest Rooms	Yes	1
Scribes for examination	Yes	2
Special skill development for differently abled students	No	0
Any other similar facility	No	0

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	1	31/01/2019	1	Blood Donation Drive	To create awareness about blood Donation process and help needy patients with blood	79



						donation	
2019	1	1	12/02/2019	1	Save Environment and Road Safety Rally	CESA and IWWA in collaboration with NSS organized a rally under the theme save environment and Road safety	65
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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)
Handbook on " Code of Ethics and conduct"	17/09/2018	This Handbook is prepared for good and effective functioning of the institute. The same has been communicated to the stakeholders and is always made available in the Institutes Administrative Office.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Expert Lecture and Guidance on Importance of site visit	14/09/2018	14/09/2018	210
Workshop on Natural Fibre the Future Technology of construction	04/09/2019	05/09/2019	282
Seminar on Cyber Crime	11/01/2019	11/01/2019	103
Seminar on Women Sanitation	24/01/2019	24/01/2019	108
Nakshatra	28/02/2019	28/02/2019	45
Scribble it Down	01/03/2019	08/03/2019	10
Blood Donation Drive	31/01/2019	31/01/2019	77
Alumni Meet	26/02/2019	26/02/2019	89
Entrepreneurship Awareness Bootcamp	15/07/2019	15/07/2019	280
Voter Awareness Seminar	22/07/2019	22/07/2019	3

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

1. Ferrocement Water Tank using Natural Fibre

2. Composit Pit construction for usage of canteen waste

3. Dispose of waste properly- Right disposal of waste helps keep the environment clean and safe for all.

4. Eco friendly Ganesha Diwali Festivals Celebration

5. Refuse, reduce, reuse or recycle- : say no to disposable plastic when possible, cut down on buying products with excessive packaging, opt for reusable containers over single-use plastic

6. Reduction in paper work.

7. We encourage the students to use college transport system for conveyance resulting in reduced use of personal vehicles and waste of fuel.

8. Implementation of Go green concept through presenting visitors, guests, participants in various activities by giving sapling as a token of appreciation.

**7.2 – Best Practices**

7.2.1 – Describe at least two institutional best practices

Few of the highlights of the Best practices that are demanded by various stakeholders and practiced in the institution 1) High academic content standards. 2) High transparency in student assessments. 3) To ensure high quality applicants entering into the system as faculty members. 4) Personal development through ongoing training. 5) To provide performance measures well in advance to all students, faculty members and heads of departments. LIST OF BEST PRACTICES:- 1. Nurturing and Empowering the potential of students :- a. The institute promotes self-growth of students through experimental learning, open communication and inculcating a culture of critical thinking in the students. The institute caters to the holistic development of its students through focus on academics, sports and culture. Our distinction lies in the pursuit of high academic attainment through support, encouragement motivation. b. The students are helped to focus on research, analytical thinking, confidence building through academics and co-curricular activities. The college is empowering its students to be lifelong learners, critical thinkers and productive members of an ever changing global society. c. Students at Saraswati college of Engineering are cultivated a sense of social responsibility, environment consciousness and energy conservation so that they can become responsible citizens of the country and contribute to the nations development. d. Enhancing the Placement activity - Placement awareness activity is organized in the institution and details regarding the company and tests that the company may conduct are provided. Our institute begins the students training activity from second year onwards. The training focuses mainly on helping students know themselves and then prepare them for interviews placements. 1. Alumni Involvement: Alumni can contribute a lot if the college management design and execute a few programs and involve them in the activities of the college through alumni cell. Alumni, especially, who are in bigger positions or own industries have played the most important role by providing (a) Sponsored projects (b) Internships and also job offers 2. The student association from the department also keeps organizing several activities for the students to cover content beyond the syllabus. 3. Employer's Feedback: The positive feedback marked by the recruiters is useful to the college in different ways. For example, the feedback received from reputed organizations increase the number of placement offers in future. Many industries show interest to offer

internship initially before the job offers so that they can monitor the student's performance and behavior during the internship. The concept of internship is practiced in our college, which enables the employers to have an opportunity to observe and assess the student performance prior to employing them. 2. Enhancing the efficiency of faculty The institute is fortunate to possess dedicated, self-motivated and experienced staff. A few factors that contribute majorly in improving the efficiency of the faculty members of our college are described below: (i) As the university revised the curriculum whenever new technologies enter the market or industries change their requirements in recruiting criteria, a new subjects (courses) are introduced in the curriculum from time to time (ii) The faculty members develop mastery over a course if they are allowed to teach the same course for multiple sections in a given semester or teach the same course for two or three years consecutively. Our staff possesses excellent teaching skill. iii) The faculty members in the institute are empowered in deciding the courses, syllabus (part of university syllabus setting team), teaching methodology, question paper as well as the evaluation scheme. This practice brings high responsibility in the faculty members. Various departments have started offering a large number of electives as specified in the revised syllabus .Elective concept is allowing the students to study courses of their choice and excel. iv) The institution has a reputation of conducting seminars, workshops, faculty development programs for the faculty regularly to make them aware about the emerging fields for their professional growth.

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

[https://engineering.saraswatikharghar.edu.in/wp-content/uploads/sites/6/2020/07/AOAR\\_Best-Practices.pdf](https://engineering.saraswatikharghar.edu.in/wp-content/uploads/sites/6/2020/07/AOAR_Best-Practices.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

1. In "Times Engineering Institute Ranking Survey 2019", SCOE secured 70th position in Top Engineering Institute in India, survey conducted by Times of India. 2. College has won "Best Emerging Technical Institute Award-2019" by Dr. P V Pawar Research and Innovation Centre held in January 2019. 3. College has secured second position in SENERGY Green Campus Award held in January 2019. 4. In "Times Engineering Institute Ranking Survey 2018", SCOE secured 76th position in Top Engineering Institute in India and 57th spot in Top Private Engineering Institute in India, survey conducted by Times of India. Saraswati College of Engineering Education System seeks to provide quality education for all students, taking account of their age, background, ability, and interests. To enhance effective learning and teaching by:

- Identifying and catering for the individual learning needs of students.
- Establishing well-managed teaching and learning environments.
- Ensuring that learning activities build on prior knowledge and experiences and are socially and culturally relevant.
- Providing frequent opportunities for students and their parents to discuss learning programs and student behaviour and progress.
- Identifying key social skills and developing plans for all students to acquire them, or make progress towards them, over time.

Along with Effective Teaching and Learning Holistic Education of the students is an equally important factor which has been taken care of in the Institution. Holistic Education is a methodology which focuses on preparing students to meet any challenges they may face in life and in their academic career. The most important theories behind holistic education are learning about oneself, developing health relationships and positive social behaviours, social and emotional development, resilience, and the ability to view beauty, experience transcendence, and truth. Through Holistic education the institute

is ensuring that the students learn about their immediate relationships with their friends and family as well as social development, health, and intellectual development. It takes current cultural influences such as the media and music and teaches younger people how to be human. SCOE has therefore made different clubs for the all-round development of the students ensuring Development in all spheres of work culture. Clubs like Music, Dance, Drama, sports, Art Photography are included to enhance creative talents.

Provide the weblink of the institution

<https://engineering.saraswatikharghar.edu.in/>

### **8.Future Plans of Actions for Next Academic Year**

The institute has set the following Future Plans of action for the next academic year: 1. Effective steps to be taken to improve the rank of college 2. To increase no of patent's and research publication in reputed international journals 3. Areas in which students have opportunity. 4. Organization of international conference. 5. Sharing of research findings and networking with other institutions in India and abroad. 6. Development and application of quality benchmark. 7. Strengthening of EN cell 8. International MOU for student exchange internships 9. Activation of study abroad setup 10. NBA Accreditation 11. Inclusion of additional student clubs