Internal Quality Assurance Cell (IQAC) and Submission of Annual Quality Assurance Report (AQAR) 2017-18 of Saraswati College of Engineering(SCOE), Kharghar, Navi Mumbai



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

NAAC

VISION

To make quality the defining element of higher education in India through a combination of self and external quality evaluation, promotion and sustenance initiatives.

MISSION

- To arrange for periodic assessment and accreditation of institutions of higher education or units thereof, or specific academic programmes or projects;
- *<* To stimulate the academic environment for promotion of quality of teaching-learning and research in higher education institutions;
- To encourage self-evaluation, accountability, autonomy and innovations in higher education;
- *« To undertake quality-related research studies, consultancy and training programmes, and*
- To collaborate with other stakeholders of higher education for quality evaluation, promotion and sustenance.

Value Framework

To promote the following core values among the HEIs of the country:

- > Contributing to National Development
- Fostering Global Competencies among Students
- Inculcating a Value System among Students
- Promoting the Use of Technology
- > Quest for Excellence

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The Annual Quality Assurance Report (AQAR) of the IQAC

(For Affiliated/Constituent Colleges)

Part – A

Data of the Institution

| 1. Name of the Institution | :Saraswati College of Engineering | | |
|--|---|--|--|
| • Name of the Head of the institution | : Dr. Manjusha Pradip Deshmukh | | |
| Designation | : Principal | | |
| • Does the institution function from own can | npus: Yes | | |
| • Phone no./Alternate phone no. | : 022-27743706 | | |
| • Mobile no | : 7738677011 | | |
| • Registered e-mail | : iqac.scoe@sce.edu.in | | |
| • Alternate e-mail | : principal.scoe@gmail.com | | |
| • Address | : Plot-46, Sector-5, Kharghar, Navi Mumbai | | |
| City/Town | : Kharghar | | |
| • State/UT | : Maharashtra | | |
| • Pin Code | : 410210 | | |
| 2. Institutional status: | | | |
| Affiliated / Constituent | : Affiliated | | |
| • Type of Institution: Co-education/Men/Wo | men : Co-education | | |
| • Location : Rural/Semi-urban/Urban | : Urban | | |
| • Financial Status: Grants-in aid/ UGC 2f an | d | | |
| 12 (B)/ Self financing (please specify) :) | : Self financing | | |
| • Name of the Affiliating University | : University of Mumbai | | |
| • Name of the IQAC Co-Ordinator | : Dr. Sunil M. Rangari | | |
| Phone no. | : 9594776192 | | |

| • | Alternate phone no. | : 7738677011 |
|---|---------------------|------------------------|
| • | IQAC e-mail address | : iqac.scoe@sce.edu.in |

• Alternate Email address : principal.scoe@gmail.com

3. Website address: <u>http://engineering.saraswatikharghar.edu.in</u>

Web-link of the AQAR: (Previous Academic Year): NA For ex. <u>http://www.ladykeanecollege.edu.in/AQAR2012-13.doc</u>

4. Whether Academic Calendar prepared during the year? **YES** Yes/No...., if yes, whether it is uploaded in the Institutional website: Weblink:

- i. For year 2017-18 (ODD SEM): <u>http://engineering.saraswatikharghar.edu.in/wp-</u> <u>content/uploads/sites/6/2018/12/academic_calender_2017_ODD_SEM.pdf</u>
 ii. For year 2018-19 (ODD SEM):
- http://engineering.saraswatikharghar.edu.in/wpcontent/uploads/sites/6/2018/12/academic-calender-2018-odd-sem.pdf
- iii. For year 2017-18 (EVEN SEM): <u>http://engineering.saraswatikharghar.edu.in/wp-</u> <u>content/uploads/sites/6/2018/12/academic_calender_2017_even_SEM.pdf</u>

5. Accreditation Details:

| Cycle | Grade | CGPA | Year of | Validity Period |
|-----------------|-------|------|---------------|--------------------------------|
| | | | Accreditation | |
| 1 st | В | 2.34 | 2017 | From: 2 nd May-2017 |
| | | | | To: 1 st May-2022 |
| 2 nd | | | | |
| 3 rd | | | | |
| 4 th | | | | |
| 5 th | | | | |

6. Date of Establishment of IQAC: DD/MM/YYYY: 17/07/2015

7. Internal Quality Assurance System

| 7.1 Quality initiatives by IQAC during the year for promoting quality culture | | | | | | |
|---|-------------------------------|----------------------------|--|--|--|--|
| Item /Title of the quality initiative by Date & duration Number of | | | | | | |
| IQAC | | Participants/beneficiaries | | | | |
| 1. Participation in NIRF | 4 th December 2017 | 01 | | | | |
| 2. Academic Administrative | 3 rd July 2017 | 250 | | | | |
| Audit (AAA) conducted and | 9:00am to 5:00pm | | | | | |
| its follow up action | | | | | | |
| 3. Preparation for upgradation of | 3 rd January 2018 | 01 | | | | |
| ISO certificate | | | | | | |

| 4. | Application for Various | 02/01/2018 | 150 |
|-----|-------------------------------|---|-----------------------|
| | awards and Rewards | | |
| 5. | Faculty development | 2 nd Jan. to 6 th Jan. 2018 | 120 |
| | programme on "Retrospection | 9:00 am to 5:00pm | |
| | of Revised IS Codes (IS 1893: | - | |
| | Part I, IS 13920 and IS 383) | | |
| | and Retrofitting". | | |
| 6. | "Training on PYTHON" | 28 th June 17 | 43 |
| | C C | 9.00 am to 5.00 pm | |
| 7. | "Pratidhwani- An Interaction | 19 th January 2018 | 150 |
| | of Alumnus with Students" | 10:00am to 2:00pm | |
| 8. | Workshop on Advance Python | 7 th August 2018 | 34 |
| | Under Institute Student | 9.00 am to 5.00 pm | |
| | Companion Program by IIT | | |
| | Bombay | | |
| 9. | CADTECH Competition | 17 th Sept.2017 | 89 |
| | I. | 9.00 am to 5.00 pm | |
| 10. | "Äutoinventia 2018" Students | 24 th Oct. 2018 | 31 Groups of students |
| | Project Competition | 9:00 am to 5:00pm | (Auto) |

Note: Some Quality Assurance initiatives of the institution are: (Indicative list) Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements Academic Administrative Audit (AAA) conducted and its follow up action Participation in NIRF ISO Certification NBA etc.

Any other Quality Audit

8. Provide the list of funds by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

| Institution/ | Scheme | Funding | Year of award | Amount |
|-------------------------|----------|-----------|---------------|-----------|
| Department/Faculty | | agency | with duration | (Rs.) |
| | | | | |
| i. SCOE/EXTC & Comp/ | Major | BARC, | 2017-2018 | 16,93,300 |
| Dr. Manjusha Deshmukh & | Research | Mumbai | | |
| Dr. Deepa Parashar | Grant | | | |
| ii. SCOE/MECH/Mr.Sachin | Minor | INAE, New | 2017-2018 | 42,750 |
| G. Solanke | Research | Delhi | | |
| | Grant | | | |

| | | 1 | | r1 |
|----------------------------|----------|---------------|-----------|--------|
| iii. SCOE/MECH/Dr. Fauzia | Minor | University of | 2017-2018 | 30,000 |
| Siddiqui & Mr.Sachin G. | Research | Mumbai | | |
| Solanke | Grant | | | |
| iv. SCOE/EXTC/Mrs. | Minor | University of | 2017-2018 | 25,000 |
| Mandeep Kaur & Mr. Umesh | Research | Mumbai | | |
| Pinjarkar | Grant | | | |
| v. SCOE/EXTC/Mrs. | Minor | University of | 2017-2018 | 20,000 |
| Rajashri Narwade & | Research | Mumbai | | |
| Mrs.Sarita Kale | Grant | | | |
| vi.SCOE/CIVIL/Dr.Priyanka | Minor | University of | 2017-2018 | 60,000 |
| Jadhav | Research | Mumbai | | |
| | Grant | | | |
| vii.SCOE/CIVIL/Mrs. | Minor | University of | 2017-2018 | 20,000 |
| Shweta Motharkar & Mrs. | Research | Mumbai | | |
| Vaishali Kisan | Grant | | | |
| viii.SCOE/CIVIL/Mrs. | Minor | University of | 2017-2018 | 20,000 |
| Asmita Lakhote & Dr. Sunil | Research | Mumbai | | |
| M. Rangari | Grant | | | |

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: YES *upload latest notification of formation of IQAC: Weblink: <u>http://engineering.saraswatikharghar.edu.in/wp-</u>

content/uploads/sites/6/2018/12/Composition-of-IQAC.pdf

10. No. of IQAC meetings held during the year: **02**

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website...... **YES**

Yes/No

Weblink: http://engineering.saraswatikharghar.edu.in/wp-

content/uploads/sites/6/2018/12/Minutes-of-Meeting-and-action-taken-report-New.pdf 11. Whether IQAC received funding from any of the funding agency to support its activities during the year? Yes/No: **NO** If yes, mention the amount:

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

- 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.
- iv. 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.
- v. 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.
- 13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards

| Quality Enhancement and the outcome ac | |
|--|---|
| Plan of Action | Achievements/Outcomes |
| Improving the industry institute interaction | Interaction of students and industry |
| | expert initiate and lectures of experts |
| | from the industry were arranged. |
| Encourage students to participate in | National awards won by students in area |
| technical events | of E-Swaccha, E – Agriculture |
| Faculties are motivated to write research | Number of proposal submitted from the |
| proposal for funded project | departments for Funded project is |
| | increased. Submitted funded project |
| | sanctioned is also notable. |
| Motivating students to participate in | Students participated in various activities |
| National/International level curriculum and | at national and International level, |
| extra curriculum activities | National Level Kick Boxing |
| | Championship 2018, Bhartiya Chhatra |
| | Sansad, MIT Pune, Formula Student |
| | Italy, 2017 (18 th July to 22th July, 2017), |
| | Jamboree-5 by ISHRAE |
| Motivation to faculties and students to | Participation of students and faculties are |
| enroll for courses conducted by | found satisfactory |
| IIT/NPTEL | |
| Student mentoring | Every faculty is associated with |
| - | mentoring. Faculty members mentor the |
| | students and communicate the details to |
| | the parents |
| Software of Plagiarism | Purchased for scrutiny the papers |
| | submitted for the conferences to achieve |
| | the quality and originality of papers |
| | |

Quality Enhancement and the outcome achieved by the end of the Academic year

| 14. Whether the AQAR was placed before statutory body? Yes /No: YES | | | | | |
|---|------------|-----------------------|--|--|--|
| Name of the Statutory body: Date of meeting | | | | | |
| Management: LMC | Syndicate: | Any other body : NAAC | | | |

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?

Yes/No: YES

Date:

- 16. Whether institutional data submitted to AISHE: Yes/No: YES
Year: 2017-18Year:2017-18Date of Submission:20/02/2018
- 17. Does the Institution have Management Information System? YES Yes No

If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

Yes, 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:

- i. **Administrative procedures including finance:** includes student and staff profiles, fee management, accounting, issue of certificates (bonafide, transfer certificate, etc.).
- 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 category of students.
- iii. **Student records:** apart from personal profiles, this includes student registration records, marks and grades, student progression data, progress reports, information, etc.
- iv. **Evaluation & Examination procedures:** Internal assessment examinations are being conducted transparently in the college. The regulations of the university about Internal Assessment is 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 and maintained with appropriate access levels to students, faculty, management, administrative personnel, parents, and other stakeholders. The wide range of extra-curricular and cocurricular activities is provided/conducted for students to get an exposure to number of Non-academic 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 teaching-learning 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:** E-learning module this provides an excellent suite of tools for the teaching-learning process, including the provision to set up question banks, conduct online exams, share teaching materials & resources, host discussion forums, conduct surveys & polls, generate course-related performance-reports, etc.

Part-B

CRITERION I – CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

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

The Institute is ISO certified under ISO 9001:2008. 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 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 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 that 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.

| Name of the Certificate Course | Name of the Diplo ma Cours es | Date of introduction and duration | focus on employability/ entrepreneurship | Skill development |
|--|--|--|---|--|
| Bright Business Beginning (B Cube) | - | 18/01/2018 to 20/01/2018 (9:30AM to 4:00PM) | Entrepreneurship | Different activities conducted regarding collaboration and communication in EN. |

1.1.2 Certificate/ Diploma Courses introduced during the Academic year

| | 1 | | 1 | | 1 | |
|--|--|---|--------------------|----------|--------------------|--|
| E-Week | - | 19/01/2018 | Entrepreneurshi | р | Startup ideas and | |
| orientation (IIT | | | - | - | from where to get | |
| Bombay) | | | | | funding for start | |
| Domowy) | | | | | up | |
| Corporata | | 06/04/2018 | Entrepreneurshi | n | Speakers from | |
| Corporate | - | 00/04/2018 | Entrepreneursin | p | * | |
| Chanakya | | (0.20 AN (| | | TED-Ex for | |
| | | (9:30AM to | | | motivating the | |
| | | 4:00PM) | | | students | |
| Computer Dept | - | 28/07/17 | Yes | | Yes | |
| Python | | | | | | |
| IT DeptPython | - | 22^{nd} - 24^{th} | focus on employ | ability | Programing | |
| Workshop | | Aug. 2017 | 1 5 | 2 | 0 0 | |
| ······································ | | | | | | |
| IT deptVirtual | - | 22 nd -23 rd Feb. | focus on employ | ability | Managing | |
| Reality | | 2018 | io cuo en cinpio j | weility | different software | |
| Reality | | 2010 | | | on same platform | |
| E&TC Dept | | 30th -31st | Focus on Emplo | wahility | Robotronics based | |
| Workshop on | - | | | yaomty | | |
| | | January 2017 | | | programming | |
| Robotronics | | 21 / 1 2017 | | 1 .1.4 | | |
| E&TC Dept | - | 21st July 2017 | Focus on Employ | yability | Solar system-based | |
| Workshop on | | | | | circuit design | |
| Solar System | | | | | | |
| Design | | | | | | |
| E&TC Dept | - | 31st July to | Focus on Employ | yability | Arduino and | |
| Workshop on | | 2nd August | | | Raspberry | |
| Arduino and | | 2017 | | | Programming | |
| Raspberry | | | | | | |
| Programming | | | | | | |
| E&TC DeptPCB | - | 4th August | Focus on Emplo | yability | Circuit design | |
| Designing | | 2017 | | | _ | |
| Workshop | | | | | | |
| E&TC DeptIOT | - | 2nd & 3rd | Employability | | IOT based | |
| workshop | | February 2018 | 1 5 5 | | Programming | |
| 1.2 Academic Flex | ibility | | | | 0 0 | |
| | J | | | | | |
| 1.2.1 New program | mes/cours | es introduced dur | ring the Academic | year | | |
| Programme with | Date of | Introduction | Course with | Date of | Introduction | |
| Code | | - | Code | | | |
| - | - | | - | - | | |
| 1.2.2 Programmes i | 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 | UG | PG | Date of | UG | PG | |
| Programmes | | | implementatio | | - | |
| adopting CBCS | | | n of CBCS / | | | |
| adopting CDCS | | | Elective | | | |
| | | | Course | | | |
| | | | System | | | |
| L | | | system | | | |

| 10 th Jul. 2017 |
|----------------------------------|
| Jul. |
| |
| 2017 |
| 11 July Aug 2017 |
| 2017 |
| 10th |
| July 2017 |
| |
| 2017 |
| |
| 2017 |
| |
| |
| AV 2016 17 |
| n AY 2016-17 |
| oduced during the year urses |
| uises |
| |
| |
| |
| |
| ills offered during the year |
| Number of students |
| enrolled |
| |
| 45 |
| 90 |
| 50 |
| |
| |
| 50 |
| 43 |
| 15 |
| 100 |
| |
| 70 |
| 50 |
| 50 |
| |
| |
| 55 |
| 55 |
| |

| | | <u>()</u> | | |
|--|--|-----------|--|--|
| Farewell-2018 | 27-04-18 | 60 | | |
| IT department | | | | |
| Nurture | 29 th Jan.2018 – 1 st Feb. 2018 | 76 | | |
| Campus to Corporate | 24 th July- 28 th July 2017 | 34 | | |
| Campus to Corporate | 23 rd Jan31 st Jan. 2018 | 62 | | |
| E&TC Department | | ■ | | |
| Nurture | 22 nd Jan.2018 – 26 th Jan. 2018 | 72 | | |
| Campus to Corporate | 23 rd Jan31 st Jan. 2018 | 29 | | |
| Automobile Department | | | | |
| Nurture | 6/2/2017 to 10/2/2017 | 70 | | |
| Optistruct | 24/2/2017 | 30 | | |
| Mechanical Department | | | | |
| Nurture | 19/9/16 to 7/10/16 | 150 | | |
| A Course on Personality Development | 3/10/16 to 5/10/16 | 40 | | |
| Electronics for | 22/01/2017 | 100 | | |
| photovoltaics for grid tied | | | | |
| system | | | | |
| . Expert Lecture on Future | 10/10/2016 | 70 | | |
| of Mechanical Sector | | | | |
| Expert Lecture on Project | 27/07/2016 | 90 | | |
| Guidance | | | | |
| Expert Lecture on New | 22/07/2016 | 82 | | |
| Product Development & | | | | |
| Project Execution in ME | | | | |
| Industry | | | | |
| FE Department | | | | |
| Nurture- Skill development | | | | |
| Program (Soft skill, | | | | |
| Personality development.) | | | | |
| SE Computer | 05/02/2018 - 08/02/2018 | 72 | | |
| SE IT | 31/01/2018 - 03/02/2018 | 76 | | |
| SE Mech I | 12/03/2018 - 15/03/2018 | 75 | | |
| SE Mech II | 12/02/2018 - 15/02/2018 | 71 | | |
| FE All branches | 22/01/2018 - 22/03/2018 | 507 | | |
| 1.3.2 Field Projects / Interns | ships under taken during the year | | | |
| Project/Programme Title | No. of students enrolled for Fiel | | | |
| Computer Dept. | | | | |
| Internship | 11 | | | |
| IT Dept. | | | | |
| Internship | 8 | | | |
| Industrial Project | 3 | | | |
| Automobile Department | 34 | | | |

| Internship | |
|---|-----|
| EMU carshed, Kurla | 05 |
| Western Railway, Repair | 03 |
| Workshop. Parel | |
| Jsw works | 01 |
| BEST, EET TRAINING | 02 |
| Central railway loco | 19 |
| workshop, Parel | |
| DSA ELECTRO | 01 |
| CONTROLS | |
| Central railway loco | 05 |
| workshop, Parel | |
| Ritu Hyundai, Bhiwandi | 02 |
| Kalwa workshop, | 01 |
| kalwa(w) | |
| Best, Eet Training | 01 |
| Angel Auto wheels, | 01 |
| palghar | |
| Automotive Manufacturers | 01 |
| Pvt.Ltd, Nerul | |
| E&TC Dept | |
| Doordarshan | 03 |
| Dynalog India Ltd | 01 |
| Ashida electronics Pvt Ltd | 04 |
| Bharat Electronics Ltd | 03 |
| Navi Mumbai | |
| EGS Survey Pvt. Ltd | 01 |
| Sponsored Projects | 0.4 |
| IOT based weighbridge | 04 |
| (Sonhira Sahakari Sakhar | |
| Karkhana Sangli) 3-Wheeler commercial E- | 04 |
| 3-Wheeler commercial E- vehicle | 04 |
| (Basanti Automobile Pvt. | |
| (Basanti Automobile Pvt. Ltd) | |
| Ardino Based Platform | 03 |
| Height Adaption For Train | 05 |
| (Indian railway S&T | |
| Branch of Mumbai | |
| Division) | |
| Water Cleaning Robot | 04 |
| (Saitronics Pvt. Ltd Karad) | |
| Civil Dept | |
| Internship /CIDCO | 59 |
| Internship/L & T | 2 |
| Internship/Data | 1 |
| Construction | |
| | |

| DevelopersInternship/BG Shirke3Internship/Central Railway5Internship/Sai World2Empire1Internship/Amrudh1Corporation2Internship/SMC Infra Pvt2Ltd1Internship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Specoture1Internship/Specoture1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Paradise Group2Internship/Pon Projects4Internship/J Kumar1Mechanical department1Productivity improvement4in luggage industry by4 | | |
|---|-------------------------------|---|
| Internship/BG Shirke3Internship/Central Railway5Internship/Sai World2Empire1Internship/Amrudh1Corporation2Internship/SMC Infra Pvt2Ltd1Internship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Paradise Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Runwal Group2Internship/J Kumar1Mechanical department1Productivity improvement4in luggage industry by4 | Internship/Kasmas | 1 |
| Internship/Central Railway5Internship/Sai World2Empire1Internship/Amrudh1Corporation2Internship/SMC Infra Pvt2Ltd1Internship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Paradise Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Runwal Group2Internship/J Kumar1Mechanical department1Productivity improvement4in luggage industry by4 | | |
| Internship/Sai World2Empire1Internship/Amrudh1Corporation2Internship/SMC Infra Pvt2Ltd1Internship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Paradise Group3Internship/Paradise Group3Internship/Runwal Group2Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | 1 | |
| EmpireImage: Constraint of the second se | Internship/Central Railway | |
| Internship/Amrudh1Corporation1Internship/SMC Infra Pvt2Ltd2Internship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Paradise Group2Internship/Runwal Group2Internship/J Kumar1Mechanical department1Productivity improvement4in luggage industry by4 | Internship/Sai World | 2 |
| CorporationInternship/SMC Infra Pvt2Ltd1Internship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Spectrum3Internship/Paradise Group3Internship/Paradise Group2Internship/Paradise Group4Internship/J Kumar1Mechanical department4Productivity improvement4 | | |
| Internship/SMC Infra Pvt2Ltd1Internship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Paradise Group2Internship/Plon Projects4Internship/J Kumar1Mechanical department4Productivity improvement4 | Internship/Amrudh | 1 |
| LtdInternship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | Corporation | |
| LtdInternship/Speco1Infrastructure1Internship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | Internship/SMC Infra Pvt | 2 |
| InfrastructureInternship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Paradise Group2Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement in luggage industry by4 | | |
| InfrastructureInternship/Sundarland1Developers1Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Paradise Group2Internship/Puradise Group2Internship/Puradise Group4Internship/Puradise Group4Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | Internship/Speco | 1 |
| DevelopersInternship/Konark NirmanPvt. LtdInternship/SpectrumInternship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical departmentProductivity improvementin luggage industry by | | |
| DevelopersInternship/Konark NirmanPvt. LtdInternship/SpectrumInternship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical departmentProductivity improvementin luggage industry by | Internship/Sundarland | 1 |
| Internship/Konark Nirman1Pvt. Ltd1Internship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | * | |
| Pvt. LtdInternship/Spectrum1Internship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | • | 1 |
| Internship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement in luggage industry by4 | * | |
| Internship/Bhagwati Group3Internship/Paradise Group3Internship/Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | Internship/Spectrum | 1 |
| Internship/Paradise Group3Internship/ Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement in luggage industry by4 | | 3 |
| Internship/ Runwal Group2Internship/Pylon Projects4Internship/J Kumar1Mechanical department4Productivity improvement4in luggage industry by4 | | 3 |
| Internship/Pylon Projects4Internship/J Kumar1Mechanical department1Productivity improvement4in luggage industry by4 | · · · | 2 |
| Internship/J Kumar1Mechanical department1Productivity improvement4in luggage industry by4 | • | |
| Mechanical department Productivity improvement 4 in luggage industry by 4 | | 1 |
| Productivity improvement 4 in luggage industry by | | |
| in luggage industry by | • | 4 |
| | v 1 | |
| increasing the reliability of | increasing the reliability of | |
| bush material | 6 | |
| Increase in OEE of Lathe 4 | Increase in OEE of Lathe | 4 |
| Machine TS670 X 1500 | | |
| using TPM | using TPM | |
| Study and development of 8 | <u> </u> | 8 |
| eco-friendly toilet | | |
| Designing Of 3-Wheeler 7 | ~ | 7 |
| Electric Vehicle | | |

| 1.4 Feedback System | | | | | | |
|---|--|--|--|--|--|--|
| 1.4.1 Whether structured feedback received from all the stakeholders. | | | | | | |
| 1) Students2) Teachers3) Employers4) Alumni5) Parents | | | | | | |
| Yes Yes Yes Yes Yes | | | | | | |
| YesYesYesYes1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words) | | | | | | |

Effective feedback has benefits for the giver, the receiver, and the wider organization. Here are five reasons why feedback is so important.

Feedback is always there Feedback is effective listening Feedback can motivate Feedback can improve performance Feedback is a tool for continued learning Continued learning is the key to improving

Institute has formulated a mechanism to obtain feedback from students and stakeholders, employers/industries and experts from academician.

- **Students**: Feedback for teaching and learning activity is taken twice a semester. It is an online system. The feedbacks are analyzed 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 conveys 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.

| CRITERION II -TEACHING-LEARNING AND EVALUATION | | | | | | |
|---|-----------------|------------------------|-------------------|--|--|--|
| 2.1 Student Enrolment and Profile | | | | | | |
| 2.1.1 Demand R | atio during the | e year | | | | |
| Name of the | Number of | Number of applications | Students Enrolled | | | |
| Programme | seats | received | | | | |
| | available | | | | | |
| Civil I(UG) | 120 | 98 | 98 | | | |
| Civil II(UG) | 60 | 43 | 43 | | | |
| Computer | 60 | 59 | 59 | | | |
| IT | 60 | 47 | 47 | | | |
| E&TC | 120 | 74 | 74 | | | |
| Auto Mobile | 60 | 44 | 44 | | | |
| Mech I | 120 | 104 | 104 | | | |
| shift(UG) | | | | | | |
| Mech II | 60 | 38 | 38 | | | |
| shift(UG) | | | | | | |
| Total | 660 | 507 | 507 | | | |
| ME -Civil | 18 | 18 | 18 | | | |
| Structural(PG) | | | | | | |
| ME-Mech | 18 | 07 | 07 | | | |
| Manufacturing(| | | | | | |
| PG) | | | | | | |
| Total | 36 | 25 | 25 | | | |

2.2 Catering to Student Diversity2.2.1. 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 full- time teachers available in the institution teaching only UG courses | Number of full-time teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|--------------------------|--|--|--|--|--|
| FE-2017-18 SE-2017-18 | 507 691 | | | | |
| TE-2017-18 | 528 | 25 | 173 | 06 | 03 |
| BE-2017-18 | 704 | | | | |

| | 2.3 Teaching - Learning Process | | | | | | |
|-----------------|---------------------------------|---------------|-----------------|----------------|-----------------|--|--|
| 2.3.1 Percentag | e of teachers u | using ICT for | effective teach | hing with Lear | ning Management | | |
| Systems (LMS) |), E-learning re | esources etc. | (current year c | lata) | | | |
| Number of | | | | | | | |
| teachers on | teachers | and | ICT | smart | techniques used | | |
| roll | using ICT | resources | enabled | classrooms | | | |
| | (LMS, e- | available | classrooms | | | | |
| | Resources) | | | | | | |
| Mechanical | 36 | Yes | 03 | 02 | NPTEL, Smart | | |
| Det36 | | | | | Board | | |
| FE Dept40 | 30 | Yes | 03 | 1 | NPTL Lecture | | |
| E&TC Dept | 24 | Yes | 02 | 01 | Video Lectures | | |
| 24 | | | | | NPTEL videos | | |
| Civil-36 | 36 | Yes | 03 | 01 | NPTEL lectures | | |
| | | | | | Video lectures | | |
| | | | | | CPWD e manual | | |
| | | | | | AUTOCAD | | |
| IT Dept14 | 10 | Yes | 02 | 01 | Video Lectures | | |
| | | | | | NPTEL videos | | |
| Computer | 11 | Yes | 02 | 1 | NPTEL n | | |
| Dept17 | | | | | YOUTUBE | | |
| Automobile | 9 | Yes | 1 | 1 | E- Books | | |
| Dept12 | | | | | E- journals | | |
| | | | | | Video Lectures | | |

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

Need Assessment:

Guidance and counselling are 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 and 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 identity 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. **Counselling is also required when:**
- 1. The student requires not only reliable information but also an interesting introspection of those 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 counselling.
- Mental health counselling.
- Educational Counselling.

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 selfgoverning, 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. Behavioral 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 | 179 | 1:14 |

| 2.4 Teacher Profile and Quality | | | | | | | |
|--|----------------|------------|--------------|---|--|--|--|
| 2.4.1 Number of full-time teachers appointed during the year | | | | | | | |
| No. of | No. of | Vacant | Positions | No. of faculty with Ph.D. | | | |
| sanctioned | filled | positions | filled | | | | |
| positions | positions | | during the | | | | |
| | | | current year | | | | |
| 182 | 167 | 15 | 14 | 20 | | | |
| | s and recognit | | • | | | | |
| | | | | onal, International level from | | | |
| | recognized bod | 0 | | | | | |
| Year of | Name of full- | | Designation | Name of the award, fellowship, | | | |
| award | teachers rece | • | | received from Government or | | | |
| | from state lev | | | recognized bodies | | | |
| | level, interna | | | | | | |
| 2017-18 | Dr. Manjusha | a Deshmukh | Principal | 1.Award of "Best principal of | | | |
| | | | and | the year" by Computer society | | | |
| | | | Professor | of India ,at CSI Tech Next India | | | |
| | | | | 2018-Awards to academia ,on | | | |
| | | | | February 10,2018 | | | |
| | | | | 2. Received award of "Principal | | | |
| | | | | of the Year-2017" by Institute | | | |
| | | | | for exploring advances in | | | |
| | | | | sciences & Engineering | | | |
| | | 11 | | (IEAE),in August 2017 | | | |
| 2017-18 | Dr.Sanjay Jao | dhav | Professor | 1.Award from chief minister of Maharashtra | | | |
| | | | | | | | |
| | | | | 2.Best TPO of the Year by CSI | | | |
| | | | | 3.100 Top Global Training and | | | |
| | | | | Development Minds by World HRD Congress | | | |
| | | | | 4.Best TPO –Pool Campus by | | | |
| | | | | ERUDITE | | | |
| | | | | 5.Career Guru- Young Achiever | | | |
| | | | | by Aspiring Minds | | | |
| | | | | by Aspiring Minus | | | |

| 2017 | Dr. Fauzia Siddiqui | Professor and HOD | CSI-HOD of the year 2017 |
|------|---------------------|----------------------|---|
| | | | |
| 2018 | Prof. Alka Purohit | Asst. Prof. | Best faculty award by computer society of India |

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 Semester/ year Date of declaration Programme Programme Last date of the of results of Name Code last semesterend/ year- end semester-end/ examination year- end examination FE Dept. FEC(101-106) Sem I(CBCGS) 30/12/17 17/02/18 FE FEC(201-206) Sem II(CBCGS) 20/12/17 03/03/18 FE FEC(101-106) Sem I(CBCGS) 11/06/18 19/07/18 FE FEC(201-206) Sem II(CBCGS) 12/06/18 19/07/18 E&TC 1st half (July2017-23rd February 2018 BE 30/12/2017 Dept. dec2017) 2nd half (Jan-2018-11th July 2018 June2018 12/06/2018 IT Dept. SE 1st half(Jan-2018-12/06/2018 17/07/2018 June2018) 2nd half(July2017dec2017) 30/12/2018 26/02/2018 Odd Semester 2017-18 Computer SE SE- III 26/12/2017 18/01/2018 Engineering TE Computer TE-V 14/12/2017 18/01/2018 Engineering BE Computer **BE-VII** 18/12/2017 23/02/2018 Engineering Even Semester 2017-18 SE Computer SE- IV 8/06/2018 19/07/2018 Engineering Computer TE TE-VI 11/06/2018 19/07/2018 Engineering Computer BE **BE-VIII** 25/05/2018 06/07/2018 Engineering Automobile AU IV/S.E 4-6-2018 24-7-2018 Engineering VI / T.E. 11-6-2018 24-7-2018

| | | VIII/ BE. | 2-6-2018(Term End 21-4-2018) | 1-8-2018 | | |
|--|---|------------------|---------------------------------|-------------------|--|--|
| | | Odd Semester 201 | 7-18 | | | |
| | | | 1 10 | | | |
| Mechanical | SE | | | | | |
| Engineering | | SE- III | 13/12/2017 | 25/01/2018 | | |
| Mechanical | ТЕ | | | | | |
| Engineering | | TE-V | 14/12/2017 | 25/01/2018 | | |
| Mechanical | BE | | | | | |
| Engineering | | BE-VII | 18/12/2017 | 08/03/2018 | | |
| | Even Semester 2017-18 | | | | | |
| Mechanical | SE | | 0/06/2010 | 25/07/2010 | | |
| Engineering | | SE- IV | 8/06/2018 | 25/07/2018 | | |
| Mechanical | TE | | | | | |
| Engineering | | TE-VI | 11/06/2018 | 25/07/2018 | | |
| Mechanical | BE | | | | | |
| Engineering | | BE-VIII | 28/05/2018 | 26/07/2018 | | |
| 2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words) | | | | | | |
| | | | nt hence they take | time to cope with | | |
| | 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, 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)

The Institution strongly believes in the concept of holistic education and strives to achieve its goal of preparing students to meet challenges that we face in 21st century. We believe it is important to provide education that focusses on the overall development of human personality guided by principal. 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 on 1st august 2017 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 month of August 2017, social activity was done in last week of august followed by feedback and first defaulter list in sept 2017.

Guest lecture was organized in the month of September 2017

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

Weblink:

E & TC: <u>http://engineering.saraswatikharghar.edu.in/electronics-and-telecommunication-engineering/</u>

Computer Engg: <u>http://engineering.saraswatikharghar.edu.in/computer-engineering/</u> Civil Engg: <u>http://engineering.saraswatikharghar.edu.in/civil-engineering/</u>

IT Engg.: http://engineering.saraswatikharghar.edu.in/information-technology/

Mechanical Engg.: <u>http://engineering.saraswatikharghar.edu.in/mechanical-engineering/</u> Automobile Engg: <u>http://engineering.saraswatikharghar.edu.in/automobile-engineering/</u> FE Dent: <u>http://angineering.saraswatikharghar.edu.in/humanities.engineering.saraswatikharghar.edu.in/humanities.engineering.saraswatikharghar.edu.in/humanities.engineering.saraswatikharghar.edu.in/humanities.engineering/</u>

| FE Dept: .: 1 | http://engineerin | g.saraswatikhargl | nar.edu.in/human | ities-engineering | sciences/ |
|---------------|-------------------|-------------------|------------------|-------------------|-----------|
| - | | | | | |

| 2.6.2 Pass percentage | e of students | | | |
|---|---|---|---|-----------------|
| Programme Code | Programme Code | Number of students appeared in the final year examination | Number of students passed in final semester/year examination | Pass Percentage |
| Electronics and Telecommunication engineering | E & TC (BE) | 114 | 111 | 97.36% |
| Mechanical BE (17-18) MAY 18 | 52407203 - 52408203 | 211 | 188 | 89.09 |
| Mechanical BE(16-17) MAY 17 | 52407203 - 52408203 | 203 | 177 | 87.19 |
| BE CIVIL (I shift) | Civil MAY 2017 | 137 | 121 | 88.32 |
| IT Department | INFORMATION OF TECHNOLOGY ENGG | 49 | 46 | 94% |

| Computer Dept. | | 71 | 63 | 88.73(VII) |
|------------------|------------|----|----|---------------|
| Computer Dept. | | 71 | 68 | 96%(VIII) |
| Computer Dept. | | 71 | 67 | 94.3(Overall) |
| Automobile Dept. | Automobile | 74 | 73 | 98.65 |

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.saraswatikharghar.edu.in/student-satisfactory-survey/

| CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION |
|--|
| 3.1 Resource Mobilization for Research |

| | | | • • | |
|--|----------------|------------------|------------------------|--|
| 3.1.1 Research funds s | sanctioned and | received from va | arious agencies, | industry and other |
| organizations Nature of the Project | Duration | Duration | Total grant sanctioned | Amount received during the Academic year |
| Major projects BRNS | 2017 | 2018 | 3022950 | 1693300 |
| Minor Projects | • | | • | |
| Civil Department | | | | |
| Minor research grant of Mumbai Univer- sity: Development of iron based SMA Rein- forcement for evinc- ing performance and safety of civil Infra- structure | 1 year | 2017-18 | 60000 | 60000 |
| Minor research grant of Mumbai Univer- sity: Self-Curing Con- crete | 1 year | 2017-18 | 20000 | 20000 |
| Minor research grant of Mumbai Univer- sity: Design of Wa- ter Filter for Rural Area | 1 year | 2017-18 | 20000 | 20000 |
| Mechanical Departm | ient | I | | 1 |
| Minor Project- Theoretical and experimental investigation of notched specimen by fatigue testing jects | 1year | 2017-18 | RS 30,000 | Rs 30,000 |

| Development of metal matrix | 1 year | 2017-18 | Rs 42,950 | Rs 42,950 |
|--|---|------------|------------|-----------|
| composite with the help of Sic and | | | | |
| graphene | | | | |
| nanostructure. E&TC Department | | | | |
| E&TC Department | | | | |
| Minor Projects Development of PCB Boards Using CNC Machine (sanctioned by Mumbai University) | June 2017 | April 2018 | 25000/- | 25000/- |
| Online Handwritten script recognition using hidden markov model(HMM) (sanctioned by Mumbai University) | June 2017 | April 2018 | 20000/- | 20000/- |
| Interdisciplinary Pro | jects | | | <u> </u> |
| Interdisciplinary Projects-Computer Department | Supplier selection of manufacturing industry using ANN and GA | July 2017 | April 2018 | 25000 |
| Interdisciplinary Projects-Computer Department | Delamination effect of abrusive Water gel | July 2017 | April 2018 | 25000 |
| Interdisciplinary Projects - Mechanical Department | Design and fabrication of 3 wheeler | 1 year | 30000 | 30000 |
| Interdisciplinary Projects (E & TC and Mechanical Dept.) | July2017 | June 2018 | 1,00,000/- | 70,000/- |

| 3-Wheeler | |
|---|--|
| | |
| commercial E- | |
| vehicle | |
| (Basanti Automobile | |
| Pvt. Ltd) | |
| | |
| Industry sponsored July2017 June 2018 20,000/- 20,000/- | |
| Projects | |
| E&TC Department | |
| IOT based | |
| weighbridge | |
| (Sonhira Sahakari | |
| Sakhar Karkhana | |
| Sangli) | |
| 3-Wheeler July2017 June 2018 1,00,000/- | |
| commercial E- 70,000/- | |
| vehicle | |
| (Basanti Automobile | |
| Pvt. Ltd) | |
| Arduino Based July2017 June 2018 19,000/- 19,000/- | |
| Platform Height | |
| Adaption For Train | |
| (Indian railway S&T | |
| Branch of Mumbai | |
| Division) | |
| Student Research May 2017 July 2017 25000 | |
| Project -Computer | |
| Department | |
| Bluetooth based | |
| health Monitoring | |
| System | |
| Any other(Specify) | |
| Total | |

3.2 Innovation Ecosystem

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(s) |
|------------------------------|-------------------|------------|
| AUTO INVENTIA 2018 | AUTOMOBILE | 24/10/2018 |

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

| Title of the | Name of the | Awarding | Date of Award | Category |
|------------------|-------------|----------|---------------|----------|
| innovation | Awardee | Agency | | |
| Civil Department | | | | |

| Best Paper Award | Priyanka Jadhav and Suhail Ahmed Shaikh | Proceedings of 74th IRF International Conference,17 th June 2018, Pune, India. Pp(9-13). | 17 th June | |
|---|---|---|-----------------------|---|
| IT Department | | | | |
| Solar Powered Arduino Controlled Agribot | Rabeena Panda Ankit Parit Supriya Borule | A P Shah Institute of Technology | 21-April-2018 | Student |
| Automobile Dep | artment | | | |
| Zero degree turning forklift for warehouse | Jadhav Rahul Shinde Sanket Pujari Sagar Trailokya Rajendra | SCOE kharghar | 4/4/2018 | Student Avishkar Project Competition |
| GMB Hybrid | Sharma Vipul Mirkute Devendra Dhone Akshay Jadhav Pratik Babare Tejas More Anup | SCOE kharghar | 4/4/2018 | Student Avishkar Project Competition |
| E&TC Departm | ent | | | |
| A project titled "E-Swaccha" | Kunal Pawar Mitesh Patel Aniket More Abhishek Rane | Avishkar- Project competition by SCOE | 04/04/2018 | Students Project competition |
| A project titled "E – Agriculture" | Manish Shripuram Saili Sawant Minakshee Powar" ation center created | Avishkar- Project competition by SCOE | 04/04/2018 | Students Project competition |

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

| Incubation Centre Name | Name | Sponsored by |
|------------------------|------|--------------|
| Sponsored by | | |

| SCOE Innovators Club | Website Development http://wisdomcareereducation.org/ | Wisdom Career Education |
|----------------------|---|---|
| SCOE Innovators Club | Website Development http://www.seaeaglenavigators.com/ | Seaeagle Navigators Private Limited. |
| SCOE Innovators Club | The website for Job Fair <u>http://ekajobfair.in/</u> The website for Events <u>http://ekaevents.in/</u> | Eka Training |
| Name of the Start-up | Nature of Start-up | Date of commencement |
| Engigenius | Home tutoring and classes | June, 2018 |
| Marketinc.in | Digital Marketing agency | June, 2018 |
| Growerskart | Online grocery store | March, 2018 |
| Knowitplus.com | News Network on Trending Topics | Feb, 2018 |
| Technobyte Solutions | Web designing and Development, Business hosting | August, 2017 |
| Nikhil Arts | Manufacturing Trophies, Medals, designing, printing, Banners, Posters and visiting cards | September, 2017 |

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

The institute follows a unique point based incentive scheme to reward the research work carried out by faculty in the respective year. This is a one of its kind scheme initiated with the patronage of our Executive Director and serves as an effective motivation for faculty, to undertake research in their chosen areas of interest

| State | National International | | | | | | | |
|--|------------------------|----|--|--|--|--|--|--|
| 01 | 02 | 03 | | | | | | |
| 3.3.2 Ph. Ds awarded during the year <i>(applicable for PG College, Research</i> | | | | | | | | |
| Center) | | | | | | | | |
| -Not Applicable | | | | | | | | |
| Name of the DepartmentNo. of Ph. Ds Awarded | | | | | | | | |
| 3.3.3 Research Publications in the Journals notified on UGC website during the | | | | | | | | |
| year | | | | | | | | |

| | Department | | No. of Publicatio n | Average Factor, if | | | |
|---|-------------------------------|-------------------------|----------------------------|-----------------------|---|--|--|
| National | Civil Depart | ment | 13 | 2.6 | | | |
| International | Department and humanit | of Sciences | 15 | .5 | .5 | | |
| International | | Department | 10 | 3.3 | | | |
| International | Computer D | epartment | 4 | 3.5 | 3.5 | | |
| International | Mechanical Department 26 1.68 | | | | | • | |
| 3.3.4 Books and | Chapters in e | dited Volumes / | Books publis | shed, and p | apers in | | |
| National/Interna | tional Conference | ence Proceeding | s per Teacher | during the | e year | | |
| Department | | | | No. of pu | No. of publication | | |
| Mechanical-Dep | artment | | | 03 | | | |
| Civil Departmen | it | | | 13 | | | |
| IT Department | | | | 02 | | | |
| Automobile Department | | | | 08 | | | |
| E&TC department | | | | 05 | | | |
| 3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index | | | | | | | |
| Title of the paper | Name of the author | Title of the journal | Year of publicatio n | Citation Index | Institutiona l affiliation as mentioned in the publication | Number of citations excluding self- citations | |
| IT Department | | IDDD | 0016 | | | | |
| Study on web DDOS attacks detection using multinomial classifier | Prof. Vaishali Jadhav | IEEE ICCICR | 2016 | 2 | Mumbai University | 2 | |

| E&TC Departn | nent | | | | | |
|--|---|--|------|----|------------------------|----|
| Omnidirec- tional and Di- rectional Frac- tal Uwb Mono- pole Antenna | Sheetal Bukkawar | | 2017 | 1 | Assistant Professor | 1 |
| A Survey of Image registration | Manjusha Deshmukh | International Journal of Image Processing | 2011 | 97 | Principal | 97 |
| Image fusion and image Quality assessment of fused image | Manjusha Deshmukh | International Journal of Image Processing | 2010 | 71 | Principal | 71 |
| Digital Image Watermaking In DCT Domain | Manjusha Deshmukh | International Journal of Emerging Technology and Advanced ISSN | 2013 | 5 | Principal | 5 |
| Iris Recognition a Review | Manjusha Deshmukh Pallavi Kharat | International Journal of Advanced Trends in Computer Science and Engineering | 2013 | 5 | Principal | 5 |
| Comparative Study of Image registration methods | Manjusha Deshmukh | International Journal of Image Processing | 2014 | 4 | Principal | 4 |
| Defending Against Attacks in MANETs Using Cooperative Bait Detection Approach | Manjusha Deshmukh | Cooperative Bait detection scheme (CBDS) To avoid the Collaborative Attacks | 2014 | 4 | Principal | 4 |
| Multimodal Image Registration | Manjusha Deshmukh | International Journal of Advanced Research in | 2014 | 2 | Principal | 2 |

| Using Contour let transform | Maningha | Computer and Communicati on | 2011 | | Dringing | |
|--|----------------------|--|------|----|------------------------|----|
| Wavelet transform based image registration and image fusion | Manjusha Deshmukh | Information Technology and Mobile communicati on | 2011 | 2 | Principal | 2 |
| Video Compression Using H 264- A Review | Manjusha Deshmukh | International Journal of Advanced Trends in Computer Science and Engineering | 2011 | 2 | Principal | 2 |
| To Explore Radon, Transform for image Registration and Image Fusion | Manjusha Deshmukh | International Journal of Emerging Technologies and Applications in Engg | 2010 | 1 | Principal | 1 |
| DGS based mi- crostrip phase shifters | Sheetal Bhujade | Sensing Technology (ICST), 2012 Sixth International Conference on, 723-728 | 2012 | 07 | Assistant Professor | 07 |
| Design and evaluation of high gain microstrip patch antenna using double layer with air gap | Sheetal Bhujade | International Journal on Recent and Innovation Trends in Computing and | 2015 | 05 | Assistant Professor | 05 |
| Efficient high gain circularly polarized microstrip antenna using | Sheetal Bhujade, | Microwave, Optical and Communicati on Engineering | 2015 | 01 | Assistant Professor | 01 |

| asymmetrical RIS surface | | (ICMOCE), 2015 | | | | | | | |
|---------------------------------|---------------------|-----------------------|------|----|------------------------|---|--|--|--|
| | | | | | | | | | |
| | | | | | | | | | |
| | Computer Department | | | | | | | | |
| Seeded region growing | Deepa Parasar | IEEE XPLORE | 2015 | 02 | Associate Professor | 2 | | | |
| segmentation | i arasar | AI LORL | | | 110103501 | | | | |
| on ultrasound | | | | | | | | | |
| image using | | | | | | | | | |
| particle swarm optimization | | | | | | | | | |
| Reversible | Deepa | IEEE | 2015 | 01 | Associate | 1 | | | |
| color | Parasar | XPLORE | | | Professor | | | | |
| transmission of compressed | | | | | | | | | |
| fragment- | | | | | | | | | |
| visible mosaic | | | | | | | | | |
| image | | | | | | | | | |
| Notice of Retraction | Deepa Parasar | IEEE VDLODE | 2015 | 01 | Associate Professor | 1 | | | |
| Ultrasound | Parasar | XPLORE | | | Professor | | | | |
| image | | | | | | | | | |
| enhancement | | | | | | | | | |
| using improved | | | | | | | | | |
| Fixed Point | | | | | | | | | |
| Independent Component | | | | | | | | | |
| Analysis | | | | | | | | | |
| Content based | Prof. Sujata | International | 2013 | 05 | Associate | 5 | | | |
| Medical Image Retrieval with | Bhairnallyk ar | Journal of Applied | | | Professor | | | | |
| SVM | ui | Information | | | | | | | |
| Classification and Relevance | | Systems (IJAIS) – | | | | | | | |
| Feedback | | ISSN : 2249- 0868 | | | | | | | |
| | | 0000 | | | | | | | |

| Multifactor Authentication Using Android Mobile | Prof. Rina Bora | International Journal of Computer Applications (0975 – 8887) | 2015 | 01 | Associate Professor | 1 |
|--|--------------------|---|------|----|------------------------|----|
| Automobile Dep | | | 0015 | 4 | | |
| Lubricating oil analysis-A re- view | Sagar Khatavkar | International Journal on Recent Tech- nologies in Mechanical and Electri- cal | 2015 | 1 | Assistant professor | 1 |
| Ultrasonic cavitation induced degradation of Congo red in aqueous solution | P.D.Ingle | Chemichal engineering research bulletin | 2010 | 16 | Associate professor | 16 |
| An overview of clearance optimization in sheet metal blanking | T.Z. Quazi | International journal of emerging technologies | 2012 | 17 | Associate professor | 17 |
| A case study of taguchi method in the optimization of turning parameters | T.Z. Quazi | International journal of emerging technologies | 2013 | 16 | Associate professor | 16 |
| An overview of factors | T.Z. Quazi | International journal of | 2013 | 11 | Associate professor | 11 |

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| oblique load using pseudo- dynamic approach Estimation of | S M | Geotechnical | 2013 | 02 | Associate | 2 |
|--|---------------------|---|-----------------|----|------------------------|---|
| estimation of seismic uplift capacity of horizontal strip anchors using pseudo- dynamic approach | Rangari | Engineering (KSCE Journal of Civil) | 2015 | 02 | Professor | 2 |
| Effects of pullout direction and anchor inclination on computation of pseudo-static uplift capacity for strip anchors in sand | S M Rangari | Disaster Advances | 2012 | 1 | Associate Professor | 1 |
| Pseudo-Static Uplift Capacity of Obliquely Loaded Horizontal Strip Anchor in Cohesionless Soil | Sunil M. Rangari | Geo Congress 2012: State of the Art and Practice in Geotechnical Engineering | June 20,2012 | 1 | Associate Professor | 1 |
| Pseudo-Static Uplift Capacity of Horizontal Strip Anchors | Sunil M. Rangari | Geo Frontiers 2011 | 2011 | 1 | Associate Professor | 1 |

| Effect of replacement of natural sand by manufactured sand on the properties of cement mortar | Priyanka A. Jadhav | Civil &Structural Engineering | 2013 | 1 | Associate Professor | 11 |
|--|-----------------------|--|----------------|----|------------------------|----|
| An experimental investigation on the properties of concrete containing manufactured sand | Priyanka A. Jadhav | Advanced Engineering Technology | 2012 | 11 | Associate Professor | 11 |
| Free and forced vibration control of piezoelectric FGM plate subjected to electro- mechanical loading | Priyanka A. Jadhav | Smart materials and structures | 2013 | 8 | Associate Professor | 8 |
| Buckling of piezoelectric functionally graded plate subjected to electro- mechanical loading | Priyanka A. Jadhav | Smart materials and structures | 27July 2012 | 3 | Associate Professor | 3 |
| Stability Analysis of Piezoelectric FGM Plate Subjected to | Priyanka Jadhav | Applied Science &Engineerin g | 2013 | 2 | Associate Professor | 2 |

| Electro- | | | | | | |
|---------------------|----------------|--------------------|----------------|--------------|------------|-------------|
| mechanical | | | | | | |
| | | | | | | |
| Loading Using | | | | | | |
| Finite Element | | | | | | |
| Method | | | | | | |
| | | | | | | |
| Fatigue H | P. A. | Creep, | 2016 | 1 | Associate | 1 |
| damage J | Jadhav | fatigue and | | | Professor | |
| assessment | | creep-fatigue | | | | |
| under multi- | | interaction | | | | |
| | | Interaction | | | | |
| axial | | | | | | |
| nonproportiona | | | | | | |
| 1 cyclic loading | | | | | | |
| | | | | | | |
| Mechanical Depa | rtment | | | | | |
| Optimization I | Pradeep | International | 2013 | 10 | Assistant | 1 |
| | Deshmukh, | Journal of | 2015 | 10 | Professor | 1 |
| - C | MB Sorte | Recent | | | 110105501 | |
| using Taguchi | Solic | Technology | | | | |
| method for | | and | | | | |
| submerged arc | | Engineering | | | | |
| welding on | | Lingineering | | | | |
| spiral pipes | | | | | | |
| | Madan | International | 2014 | 4 | Assistant | 1 |
| | | Journal of | 2014 | 4 | Professor | 1 |
| For | Jagtap | Scientific & | | | 110105501 | |
| Surveillance | | Technology | | | | |
| Survemance | | Research | | | | |
| Microturbine: N | Madan | International | 2011 | 4 | Assistant | 1 |
| | Jagtap | Journal of | 2011 | 4 | Professor | 1 |
| efficient Power | Jagtap | Scientific & | | | FIOLESSOL | |
| | | | | | | |
| Generation | | Technology | | | | |
| Ontiniation | A | Research | 2015 | 10 | A | 2 |
| 1 | Arshad | International | 2015 | 10 | Assistant | 2 |
| e | Qureshi, | Journal of | | | Professor | |
| 1 | Madhukar | Scientific & | | | | |
| | Sorte | Engineering | | | | |
| roughness in | | Research | | | | |
| CNC turning | | | | | | |
| of P20 steel | . | 15.11 | 1 • • | | | |
| 3.3.6 h-index of th | e Institutiona | al Publications of | luring the yea | ar. (based o | on Scopus/ | |
| Web of science) | | | · | | | |
| | Name of | Title of the | Year of | h-index | Number of | Institution |
| paper t | the author | journal | publicatio | | citations | al |
| | | | n | | excluding | affiliation |
| 1 | 1 | | | | | |

| | | | | | self- citations | mentioned in the publicatio n |
|--|-----------------------|---|----------------------------|---------|---|---|
| Automobile Dep | | T : 1 0 | | 1 7 1 | | . |
| Title of the paper | Name of the author | Title of Journal | Year of publicatio n | h-Index | Number of citation including self- citation | Institution al affiliation mentioned in publicatio ns |
| Lubricating oil analysis-A re- view | Sagar Khatavkar | International Journal on Recent Tech- nologies in Mechanical and Electri- cal | 2015 | 1 | 1 | Assistant professor |
| Ultrasonic cavitation induced degradation of Congo red in aqueous solution | P.D.Ingle | Chemichal engineering research bulletin | 2010 | 2 | 16 | Associate professor |
| An overview of clearance optimization in sheet metal blanking | T.Z. Quazi | International journal of emerging technologies | 2012 | 5 | 17 | Associate professor |
| A case study of taguchi method in the optimization of turning parameters | T.Z. Quazi | International journal of emerging technologies | 2013 | 5 | 16 | Associate professor |

| An overview of factors affecting in metal blanking | T.Z. Quazi | International journal of emerging technologies | 2013 | 5 | 11 | Associate professor |
|--|---|---|------|---|----|------------------------|
| An overview of the methodologies used in the optimization processes in the sheet metal blanking | T.Z. Quazi | International journal of mechanics and robotics | 2013 | 5 | 9 | Associate professor |
| Optimization of turning parameters such as speed rete, feed rate, depth of cut for surface roughness by taguchi method | T.Z. Quazi | Asian journal for engineering and technology innovation | 2014 | 5 | 6 | Associate professor |
| Modal analysis of truch chassis frame | C. Vishnudas | IJSER | 2017 | 1 | 1 | Assistant professor |
| Mechanical dep | artment | | | | | |
| Optimization of Cutting parameters for Surface roughness in CNC turning of P20 steel | Arshad Qureshi, Madhukar Sorte | International Journal of Scientific & Engineering Research | 2015 | 2 | 2 | Associate professor |
| Optimization of welding parameters using Taguchi method for submerged arc | Pradeep Deshmukh, MB Sorte | International Journal of Recent Technology and Engineering | 2013 | 2 | 6 | Associate professor |

| 1.1: | | | | | | |
|-----------------------------|-------------|---------------|------|----------|----|-------------------|
| welding on | | | | | | |
| spiral pipes | M- 1 | Testan | 2015 | 1 | 2 | A == 1 ± 1 |
| Plate Type Electrostatic | Madan | International | 2015 | 1 | 2 | Associate |
| | Jagtap | Journal On | | | | professor |
| Precipitator | | Recent | | | | |
| Essentials & | | Technologies | | | | |
| Issues For | | In | | | | |
| Optimizing | | Mechanical | | | | |
| Overall | | And | | | | |
| Efficiency | | Electrical | | | | |
| | | Engineering | | | | |
| E&TC Departn | nent | | | | | |
| | Sheetal | IEEE | 2017 | 1 | 1 | Assistant |
| Omnidirec- | Bukkawar | Explorer | 2017 | 1 | 1 | Professor |
| tional And Di- | Durrawai | Explorer | | | | 110105501 |
| rectional Frac- | | | | | | |
| tal Uwb Mono- | | | | | | |
| pole Antenna | | | | | | |
| A Survey of | Manjusha | International | 2011 | 4 | 97 | Principal |
| Image | Deshmukh | Journal of | | | | |
| registration | | Image | | | | |
| C | | Processing | | | | |
| Image fusion | Manjusha | International | 2010 | 4 | 71 | Principal |
| and image | Deshmukh | Journal of | | | | - |
| Quality | | Image | | | | |
| assessment of | | Processing | | | | |
| fused image | | | | | | |
| | | | | | | |
| Digital Image | Manjusha | International | 2013 | 4 | 5 | Principal |
| Watermaking | 5 | Journal of | 2013 | T | 5 | 1 merpar |
| In DCT | Deshmukh | Emerging | | | | |
| Domain | | Technology | | | | |
| | | and | | | | |
| | | Advanced | | | | |
| | | ISSN | | | | |
| Iris | Manjusha | International | 2013 | 4 | 5 | Principal |
| Recognition a | Deshmukh | Journal of | _015 | | | 1 morpui |
| Review | Desimitukii | Advanced | | | | |
| | | Trends in | | | | |
| | | Computer | | | | |
| | | Science and | | | | |
| | | Engineering | | | | |
| Comparative | Manjusha | International | 2014 | 4 | 4 | Principal |
| Study of Image | Deshmukh | Journal of | | | . | 1 morpui |
| registration | Desimilukii | Image | | | | |
| methods | | Processing | | | | |
| | l | 1100000000000 | 1 | 1 | 1 | |

| Defending Against Attacks in MANETs Using Cooperative Bait Detection Approach | Manjusha Deshmukh | Cooperative Bait detection scheme (CBDS) To avoid the Collaborative Attacks | 2014 | 4 | 4 | Principal |
|--|----------------------|--|------|---|---|-----------|
| Multimodal Image Registration Using Contour let transform | Manjusha Deshmukh | International Journal of Advanced Research in Computer and Communicati on | 2014 | 4 | 2 | Principal |
| Wavelet transform based image registration and image fusion | Manjusha Deshmukh | Information Technology and Mobile communicati on | 2011 | 4 | 2 | Principal |
| Video Compression Using H 264- A Review | Manjusha Deshmukh | International Journal of Advanced Trends in Computer Science and Engineering | 2011 | 4 | 2 | Principal |
| To Explore Radon, Transform for image Registration and Image Fusion | Manjusha Deshmukh | International Journal of Emerging Technologies 4and Applications in Engg | 2010 | 4 | 1 | Principal |
| Multisensory Image Fusion Techniques and Evaluation of Fused Image | Manjusha Deshmukh | International Journal of Computer Science and Software Engineering | 2009 | 4 | 1 | Principal |
| To Explore Radon, Transform for image Registration | Manjusha Deshmukh | International Journal of Image Processing | 2011 | 4 | 1 | Principal |

| 1 T | | | | | | |
|---------------------|-----------|----------------|------|----|----|-----------|
| and Image | | | | | | |
| Fusion | ~ ~ ~ | | | | | |
| DGS based mi- | Sheetal | Sensing | 2012 | 02 | 07 | Assistant |
| crostrip phase | Bhujade | Technology | | | | Professor |
| shifters | | (ICST), 2012 | | | | |
| | | Sixth | | | | |
| | | International | | | | |
| | | | | | | |
| | | Conference | | | | |
| | | on, 723-728 | | | | |
| | | | | | | |
| Design and | Sheetal | International | 2015 | 02 | 07 | Assistant |
| evaluation of | Bhujade | Journal on | | | | Professor |
| high gain | Dhujauc | Recent and | | | | |
| microstrip | | Innovation | | | | |
| patch antenna | | Trends in | | | | |
| using double | | Computing | | | | |
| layer with air | | and | | | | |
| gap | | | | | | |
| Efficient high | Sheetal | Microwave, | 2015 | 02 | 01 | Assistant |
| gain circularly | Bhujade, | Optical and | 2010 | | 01 | Professor |
| polarized | Difujade, | Communicati | | | | 110105501 |
| microstrip | | on | | | | |
| antenna using | | Engineering | | | | |
| asymmetrical | | (ICMOCE), | | | | |
| RIS surface | | 2015 | | | | |
| Design and | Sheetal | 2017 | 2017 | 02 | _ | Assistant |
| analysis of | Bhujade | International | 2017 | 02 | | Professor |
| monopole | Bilujaue | Conference | | | | 110103501 |
| antenna for | | on Intelligent | | | | |
| single and | | Sustainable | | | | |
| multiband | | Systems | | | | |
| applications | | (ICISS | | | | |
| Design and | Sheetal | 2017 Interna- | 2017 | 02 | - | Assistant |
| optimization of | Bhujade | tional Con- | | | | Professor |
| microstrip | Diajado | ference on | | | | |
| patch and | | Inventive | | | | |
| monopole | | Computing | | | | |
| antenna with | | and Infor- | | | | |
| Defected | | matics | | | | |
| Ground | | (ICICI | | | | |
| Structure | | | | | | |
| (DGS) | | | | | | |
| Computor Dong | rtmont | | | | | |
| Computer Department | | | | | | |

| Seeded region growing segmentation on ultrasound image using particle swarm optimization | Deepa Parasar | IEEE XPLORE | 2015 | 02 | 5 | Associate professor |
|--|-----------------------------------|---|------|----|---|------------------------|
| Automatic Wi- Fi based Push Notification in College Campus using Cloud | Prof. Rina Bora | International Journal of Computer Applications (0975 – 8887) | 2014 | 01 | 3 | Assistant professor |
| Content based Medical Image Retrieval with SVM Civil Engineeri | Prof. Sujata Bhairnallyk ar | International Journal of Applied Information Systems (IJAIS) – ISSN : 2249- 0868 | 2013 | 01 | 5 | Assistant professor |
| Computations of Seismic Passive Resistance and Uplift Capacity of Horizontal Strip Anchors in Sand | S M Rangari | Geotechnical &Geological Engineering | 2013 | 4 | 3 | Associate professor |
| Seismic uplift capacity of shallow horizontal strip anchor under oblique load using pseudo- dynamic approach | S M Rangari | Soils and Foundations | 2013 | 4 | 4 | Associate professor |

| Estimation of seismic uplift capacity of horizontal strip anchors using pseudo- dynamic approach | S M Rangari | Geotechnical Engineering (KSCE Journal of Civil) | 2013 | 4 | 2 | Associate professor |
|--|-----------------------|---|-----------------|---|----|------------------------|
| Effects of pullout direction and anchor inclination on computation of pseudo-static uplift capacity for strip anchors in sand | S M Rangari | Disaster Advances | 2012 | 4 | 1 | Associate professor |
| Pseudo-Static Uplift Capacity of Obliquely Loaded Horizontal Strip Anchor in Cohesionless Soil | Sunil M. Rangari | Geo Congress 2012: State of the Art and Practice in Geotechnical Engineering | June 20,2012 | 4 | 1 | Associate professor |
| Pseudo-Static Uplift Capacity of Horizontal Strip Anchor | Sunil Rangari | Geo Frontiers 2011 | 2011 | 4 | 1 | Associate professor |
| Effect of replacement of natural sand by manufactured sand on the properties of cement mortar | Priyanka A. Jadhav | Civil &Structural Engineering | 2013 | 5 | 19 | Associate professor |

| An experimental investigation on the properties of concrete containing manufactured sand | Priyanka A. Jadhav | Advanced Engineering Technology | 2012 | 5 | 11 | Associate professor |
|---|-----------------------|---|----------------|---|----|------------------------|
| Free and forced vibration control of piezoelectric FGM plate subjected to electro- mechanical loading | Priyanka A. Jadhav | Smart materials and structures | 2013 | 5 | 8 | Associate professor |
| Buckling of piezoelectric functionally graded plate subjected to electro- mechanical loading | Priyanka A. Jadhav | Smart materials and structures | 27July 2012 | 5 | 3 | Associate professor |
| Stability Analysis of Piezoelectric FGM Plate Subjected to Electro- mechanical Loading Using Finite Element Method | Priyanka Jadhav | Applied Science &Engineerin g | 2013 | 5 | 2 | Associate professor |
| Fatigue damage assessment under multi- axial on proportional cyclic loading | P. A. Jadhav | Creep, fatigue and creep-fatigue interaction | 2016 | 5 | 1 | Associate professor |

| No. of Faculty | International level | National level | State level | Local level |
|------------------------------------|--|--|-----------------------------|--|
| Attended Seminars/ Workshops | E&TC Dept04 FE Dept15 IT Dept07 Computer Dept Seminar-12 | E&TC Dept08 FE Dept01 Civil Dept01 Computer Dept workshop-1, STTP- 04 | Computer Dept Seminar-12 | Civil Dept22 |
| Presented papers | E&TC Dept06 FE Dept05 Computer Dept Journals-03 | E&TC Dept01 | | |
| Resource Persons | | | | Civil Dept01 Computer Dept Worshop-01 |

3.4 Extension Activities

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

| Title of the Activities | Organizing unit/ agency/ collaborating agency | Number of teachers coordinated such activities | Number of students participated in such activity |
|--|---|--|---|
| Civil Department Construction Of Ferrocement Tank In Borimalpada, Khalapur | NSS | 5 | 20 |
| Automobile department | | | |
| Women empowerment | Young inspirator network | 1 | 300 |
| Seminar on civil services | Young inspirator network | 1 | 350 |

| TT .1 1 | | T 7 • | • . | 4 | | 200 |
|------------------------------------|-----------------------|-------------------------|-------------------------|------------------|--------------|--|
| Youth exodus | | Young insp network | birator | 1 | | 300 |
| Yin sanvad | | Young insp network | pirator | 1 | | 280 |
| Yin talk | | Young insp network | birator | 1 | | 450 |
| 3.4.2 Awards and recognized bodies | | | for extension | activitie | es from Gove | rnment and other |
| Name of the Activ | vity | Award/reco | ognition | Awaro | ding bodies | No. of Students benefited |
| Clean and green c | ampus | Top 91 | | AICT | E | All |
| award | | | | | | |
| Swachha Bharat | | Swachhata | Doot | Panvel Muncipal | | ALL |
| Abhiyaan | | | | Corporation | | |
| Construction of w | ater | Special appreciation | | Palghar Muncipal | | 100(NSS) |
| tank in Shirsonpac | da and | | | Corporation | | |
| installation of Sol | ar | | | | | |
| Pumps ,Kasar,Nas | sik | | | | | |
| Issue, etc. during | nisations the year | | | | | nisations, Non- s Awareness, Gender |
| Automobile Depa Swachh Bharat | | inconirctor | Taloja gumen | r | 1 | 5 |
| Swacnn Bharat | networ | | nspirator Taloja survey | | 1 | 5 |
| Social awareness | Young networ | inspirator Youth exodus | | 5 | 1 | 300 |
| Gender issue | Young | inspirator k | Women empowermen | | 1 | 300 |

| 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 | | | |

| BRNS Project (Objective Assessment of Autonomic Nervous System using Artificial Neural Network) | Dr. Manjusha Deshmukh Co-PI- Dr. Deepa Parasar | Deshmukh year 2 Co-PI- Dr. Deepa | | ctioned for 8- Rs. 1693300 | 2017-18 |
|---|---|-------------------------------------|---|-------------------------------|--------------------------|
| Civil dept research on concrete | Riya J. Athanikar | | ACC Cemen | t | July 2017- May 2018 |
| Civil dept RESEARCH ON CONCRETE | Karthik Mohan Nain | r | ACC Cement | | July 2017- May 2018 |
| | vith institutions/industrie | es for | internship, on | -the-job training | g, project work, sharing |
| of research facili Nature of linkage | ities etc. during the year Title of the linkage | par inst ind /res wit | me of the tnering titution/ ustry search lab h contact ails | Duration (From-To) | participant |
| Civil Departmen | nt | uei | alls | | |
| Internship | Raft foundation roof slab | CII | DCO | 18/6/18- 7/7/18 | 57 |
| Internship | Green building | L 8 | ¢Τ | 15/6/18- 7/7/18 | 2 |
| Internship | Light weight concrete | Dat Cor | ta nstruction | 13/6/18 – 8/7/18 | 1 |
| Internship | Pervious concrete | Kasmas Developers | | 13/6/18 – 8/7/18 | 1 |
| Internship | Column jacketing | BG Shirke | | 15/6/18 b- 7/7/18 | 3 |
| Internship | Concrete sleeper | Cei | ntral Railway | 15/6/18 b- 7/7/18 | 5 |
| Internship | QSEV and understanding RCC layout | | World | 22/6/18- 8/7/18 | 2 |

| | 1 | | 1 | |
|---------------|------------------------------|--|----------------------------|---------------------|
| Internship | GIS | Amrudh | 22/6/18- | 1 |
| | | Corporation | 8/7/18 | |
| Internship | Pavement | SMC Infra Pvt | 18/6/18- | 2 |
| memsinp | 1 avennent | Ltd | 6/7/18 | 2 |
| | | Lu | 0/ // 10 | |
| Internship | Alternate materials | Speco | 20/6/18 - | 1 |
| _ | | Infrastrucutre | 8/7/18 | |
| | | | | |
| Internship | Light weight concrete | Sundarland | 20/6/18 - | 1 |
| | | Developers | 5/7/18 | |
| Internship | Roof slab | Konark Nirman | 20/6/18- | 1 |
| internoinp | | Pvt. Ltd | 5/7/18 | 1 |
| | | | 5///10 | |
| Project work | GIS | Spectrum | 1/8/18- | 1 |
| | | | 31/3/19 | |
| T / 1 * | 0 1 1 | D 10 | 22/6/10 | 2 |
| Internship | Cracks and repair methods | Runwal Group | 22/6/18- | 2 |
| | methous | | 8/7/18 | |
| Internship | QSEV and | Pylon Projects | 22/6/18- | 3 |
| ···· r | understanding RCC | <i>y</i> - | 8/7/18 | - |
| | layout | | | |
| Project work | GIS and | J Kumar | 1/8/18- | 1 |
| | hydrogeological study | | 31/3/19 | |
| IT Department | - | | | |
| Internship | Extraction of the | Technical | June 15 th | Anjal Afghan |
| p | geometrical | University of | 2017 | |
| | characteristics of the | Sophia, | | |
| | impact craters located | Bulgaria | July 30 th 2017 | |
| | on Mars | 2 4184114 | | |
| | | | | |
| Internship | Web development | Dezignolics | June 20 2018 | Neha Barhate |
| | using | | July 25 2018 | Shraddha Patil |
| | HTML,CSS,Bootstrap | | July 25 2018 | Sinaduna Patii |
| | | | | Nutan Patil |
| | | | | |
| | | | | Aishwarya |
| | | | | Devrukhkar |
| | | | | Shamali Dawarung |
| Internship | Web Developer | Qleverlabs | February | Ketan Shivaji Desai |
| L. L. | L. L. | Technologies | 2018-ongoing | 5 |
| | | Ũ | | |

| Internship | Web Development using PHP,MySQL,HTML | Centrail Railway | 20 June-2017 To 5 July 2017 | Rabeena Panda Apurva Nayak |
|--------------|---|--|------------------------------------|---|
| Internship | Data analysis using dashboard | Tor Vergata University Roma, Itely | 18 June 2018 to 30 July 2018 | Samrutti Patil |
| Internship | Networking & database management | JNPT | 23 June 2017 to 07 July 2017 | Archana Patil |
| Internship | Networking | Javaharlal Nehru,Port Trust, Uran 400702 | 8 June 2018 to 22 June 2018 | Ketan Tandel |
| Automobile D | epartment | | | |
| Internship | Maintenance of Railway | Western Railway , Repair Workshop. Parel | 25-09-2017 to 24-10-2017 | Anirudha Thorat Tahikar nihal Siddesh pawaskar |
| Internship | Manufacturing of steel sheets and rods | Jsw works | 16-12-2017 to 16-01-2018 | Omkar p patil |
| Internship | Repair and maintenance of locomotives | Central railway loco workshop, Parel | 15-12-2017 TO 30-12- 2017 | Ganesh bhujbal |
| Internship | Repair and maintenance of locomotives | Central railway loco workshop, Parel | 18-12-2018 to 07-01-2018 | Tejas Budke Harshad Prabhu Abhishek Shete Omkar Thorat Ajit kudekar Vinayak mugurdekar Sumit kulkarni Jha soham Sunny gupta Vignesh sonawane |

| | | | | Alankar kadam |
|------------|--|--|---------------------------------|--|
| Internship | Control system engineering | DSA ELECTRO CONTROLS | 18-12-2018 to 07-01-2018 | Gavit Dinesh |
| Internship | Production of automobile spare parts | Automomtive Manufacturers Pvt.Ltd, Nerul | 05-02-2018 to 5-05-2018 | Nikhil abraham |
| Internship | Repair and maintenance of locomotives | Central railway loco workshop, Parel | 20-06-2018 to 8-07-2018 | Satish baikar Vipul yamgar Ajit kudekar Abhishek shete Tejas budke Harshad prabhu Vikas wankhade |
| Internship | Bus maintenance and transport management | BEST, EET TRAINING | 12-06-2018 TO 8-07-2018 | Krishna kashid Mayor kashid |
| Internship | Automobile sales and service | RITU HYUNDAI, BHIWANDI | 12-06-2018 TO 8-17-2018 | Himanshu Thakkar |
| Internship | fabrication | Kalwa workshop, kalwa(w) | 25-06-2018 TO 7-07-2018 | Ganesh bhujbal |
| Internship | Bus maintenance and transport management | BEST, EET TRAINING | 25-06-2018 TO 14-07- 2018 | SAHIL ANSARI |
| Internship | Automobile tires and wheels | Angel Auto wheels, palghar | 13-06-2018 to 08-07-2018 | Dinesh Gavit |
| Internship | Production of automobile spare parts | Automomtive Manufacturers Pvt.Ltd, Nerul | 12-06-2018 to 08-07-2018 | Aniket Jaltare |
| Internship | Repair and maintenance of electric locomotives | EMU car shed , Kurla | 18-09-2017 to 24-09-2017 | Dhananjay Kamble Jayessh Malekar Kunal Koli Amol Pawar Akash Chavan |

| E&TC Depar | tment | | | | | | |
|--------------|--|--------------------------------|----------------------------------|------------------|--|------------------------|--|
| Internship | Communicati Engineering | on | | | | 07/2018 to 07/2018 | Vinay R. Revankar Ramshilochan Pal Namit Singh |
| Internship | Microprocess Microcontrol applications | | Dynalog In Ltd | ndia | 27/0 8/7/ | 5/18 to /18 | Poorti Kulkarni |
| Internship | Analog Communicati | on | Ashida electronics Ltd | s Pvt | 18/0 5/7/ | 5/18 to /18 | Deepak Dharve |
| Internship | Analog and E Communicati | | Bharat Electronic Navi Mum | | 15/0 3/7/ | 5/18 to /18 | Nitesh Mhatre Siddhant Patil Vivek Patil |
| Internship | Antenna desi | gning | EGS Surve Pvt. Ltd | ey | 25/0 5/7/ | 6/18 to /18 | Prathamesh Mhatre |
| Mechanical D | epartment | | | | | | |
| Internship | Compulsory Internship as | works | ngineering | 17/6/2 | 017 | 8/7/2017 | AGARHARI INDRAJIT |
| | per Syllabus of Mumbai University | C.R. Loc Worksho BARC | | | /06/2017 8/7/2017 /06/2017 8/7/2017 | | ANAP RUSHIKESH BAIS ANKITA K |
| | | C.R. Wo Matunga | ▲ · | 16/06/ | | 30/6/2017 | BOBADE AVINASH A |
| | | MSRTC | - | 11/7/2 | 017 | 9/8/2017 | CHAUHAN POOJA S CHAVAN |
| | | RC & F Chembu JSW ST | r | 20/6/2 | 017 | 5/7/2017 | PRIYANKA S |
| | | (SALAV LIMITE | ″) | 19/6/2 | 017 | 24/6/2017 | CHERU SHUBHAM D |
| | | MSRTC | , Thane | 28/6/2 | 017 | 6/7/2017 | CHOUDHARY DINESH N |
| | | | abicrators | 22/6/2 | 017 | 22/07/2017 | , CHOUGULE ABHISHEK DHAWALE |
| | | C.R. Wo Matunga C.R. Loc | L L | 1/7/20 | | 15/7/2017 | KALPESH K DHURYE |
| | | Workshop, Parel Malhar | | 23/06/ | | 8/7/2017 | AKSHAY G DOLTADE |
| | | Engineer C.R. Wo | - | 1/7/20 1/7/20 | | 15/7/2017 15/7/2017 | ANKUS GADE AMOL S |
| | | Matunga Gaura Fi | abicrators | 22/6/2 | | 22/07/2017 | , GADGE |
| | | C.R. Loc Worksho | 20 | 28/06/ | | | HRUSHIKESH S GAWALE SAKET V |

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| JNPT, Uran | 20/6/2017 | 19/07/2017 | GAWDE SHUBHAM H |
|------------------------------|------------|------------|------------------------|
| JNPT, Uran | 20/6/2017 | 19/07/2017 | GHADIGAONKAR SANKET |
| JNPT, Uran | 20/6/2017 | 19/07/2017 | GHARTI PRAKASH P |
| JNPT, Uran | 20/6/2017 | 19/07/2017 | GHULE SAMARTH N |
| JNPT, Uran | 20/6/2017 | 19/07/2017 | GOLE SWAPNIL N |
| JNPT, Uran | 20/6/2017 | 19/07/2017 | HANDE VRUSHABH S |
| JNPT, Uran | 20/6/2017 | 19/07/2017 | JADHAV AKSHAY S |
| C.R. Loco Workshop, Parel | 28/06/2017 | 12/7/2017 | JADHAV PRASAD A |
| Gaura Frabicrators | 22/6/2017 | 22/07/2017 | KADAM NIKHIL N |
| MSRTC, Thane | 28/6/2017 | 6/7/2017 | KAKADE KULDIP S |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | KAKAR MAHESH |
| MSRTC, Thane | 28/6/2017 | 6/7/2017 | KAMBLE PRAVIN A |
| C.R. Loco Workshop, Parel | 23/06/2017 | 8/7/2017 | KAMBLE RAHUL P |
| RC & F Ltd, Chembur | 20/6/2017 | 5/7/2017 | KAMBLE VIDEET |
| C.R. Loco Workshop, Parel | 30/06/2017 | 12/7/2017 | KAMBLI MRUGEN N |
| CADI (LTCOE) | 27/06/2017 | 4/7/2017 | KARMARKAR NIKHIL J |
| C.R. Loco Workshop, Parel | 23/06/2017 | 8/7/2017 | KHOLGADGE SATYAM M |
| MSRTC, Thane | 28/6/2017 | 6/7/2017 | KONDULE SANTOSH S |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | KURHADE ANKUSH A |
| Gaura Frabicrators | 22/6/2017 | 22/07/2017 | LADE ROHIT |
| MSRTC, Thane | 28/6/2017 | 6/7/2017 | LUTE AAKASH S |
| C.R. Loco Workshop, Parel | 23/06/2017 | | MANE GANESH M |
| C.R. Loco Workshop, Parel | 23/06/2017 | 8/7/2017 | MEHTA MUKESH D |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | MESTRY AJINKYA A |

| Ambiance | | 00/07/0015 | MHASKAR |
|-----------------------------------|------------|------------|-------------------------|
| Engineering | 22/6/2017 | 22/07/2017 | OMKAR S |
| JNPT, Uran | 20/6/2017 | 19/07/2017 | PALSHETKAR PRAVESH S |
| H.M Engineering | 3/7/2017 | 11/7/2017 | PANDIT ADITI |
| MKD & R Committee | 1/2/2017 | 1/4/2017 | GAJARE DURGESH A. |
| C.R. Workshop, Matunga | 2/1/2017 | 16/1/2017 | NITIN BAMBALE |
| C.R. Loco Workshop, Parel | 16/06/2017 | 6/7/2017 | CHOUGULE SHRADDHA |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | MANDHARE ABHISHEK |
| C.R. Loco Workshop, Parel | 16/06/2017 | 31/6/2017 | MORE AKASH S |
| C.R. Loco Workshop, Parel | 16/06/2017 | 31/6/2017 | MORE RAHUL C |
| C.R. Loco Workshop, Parel | 16/06/2017 | 31/6/2017 | MOTE VIVEKKUMAR B |
| Indian Railway, kalyan | 3/7/2017 | 8/7/2017 | NADAR BALAJI S |
| CEAT Ltd , Bhandup | 17/7/2017 | 28/7/2017 | NARAYANKAR JAIDEEP |
| L&T Heavy Engineering | 26/6/2017 | 19/7/2017 | NIMBALE MAHADEV S |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | PADALE AKASH P |
| RC & F Ltd, Chembur | 1/7/2017 | 15/7/2017 | PADWAL PANKAJ S |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | PANDIRE SANKET S |
| C.R. Workshop, Matunga | 19/6/2017 | 30/6/2017 | PANSARE SHEKHAR B |
| Savita Oil Technology | 15/6/2017 | 2/7/2017 | PARAB RUDRAKSH P |
| C.R. Loco Workshop, Parel | 16/06/2017 | 31/6/2017 | PATIL DEEPAK V |
| C.R. Loco Workshop, Parel | 16/06/2017 | 31/6/2017 | PATIL HITESH H |
| MSRTC, Thane | 2/1/2017 | 9/1/2017 | PATIL PRANIT A |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | PATIL PRATIK S |
| MSRTC, Thane | 2/1/2017 | 9/1/2017 | PATIL ROHAN G |
| Karkas Frabrication | 20/6/2017 | 8/7/2017 | PATIL VIGHNESH V |
| Divine Services, Koparkhairane | 16/06/2017 | 30/6/2017 | PAVANE RANJIT B |

| Savita Oil Technology | 15/6/2017 | 2/7/2017 | PAWAR SAURABH S |
|-------------------------------|------------|-----------|---------------------------|
| C.R. Workshop, | 15/6/2017 | 30/6/2017 | PHADTARE ADITYA T |
| Matunga C.R. Workshop, | 16/6/2017 | 30/6/2017 | RAJPUT SACHIN |
| Matunga C.R. Workshop, | 1/7/2017 | 15/7/2017 | M RASAL GAYATRI |
| Matunga C.R. Loco | 19/06/2017 | | S RATHOD |
| Workshop, Parel C.R. Loco | | | MAHESH S SABLE SANKESH |
| Workshop, Parel | 15/06/2017 | 30/6/2017 | S |
| Matunga | 3/7/2017 | 8/7/2017 | SAHANI AVINASH R |
| C.R. Loco Workshop, Parel | 15/06/2017 | 30/6/2017 | SALUNKE PRAJWAL S |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | SANAP PANKAJ S |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | SAPKALE DEEPAK D |
| C.R. Workshop, | 1/7/2017 | 15/7/2017 | SASTE TUSHAR |
| Matunga C.R. Workshop, | 3/7/2017 | 8/7/2017 | V SATPUTE |
| L&T Heavy | 15/6/2017 | 15/7/2017 | TUKARAM M SAWANT |
| Engineering C.R. Workshop, | 3/7/2017 | 8/7/2017 | SHUBHAM H SHAIKH |
| Matunga | 3/ //2017 | 8///201/ | MOHAMMAD |
| MSRTC, Thane | 1/7/2017 | 9/7/2017 | SHINDE PRATIKSHA N |
| C.R. Workshop, Matunga | 15/1/2017 | 31/1/2017 | SHIRKE ANURAG V |
| C.R. Workshop, Matunga | 3/7/2017 | 8/7/2017 | SHUKLA KRISHNA N |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | SINGH VINAYAK A. |
| C.R. Loco Workshop, Parel | 15/06/2017 | 30/6/2017 | SOLSE ROSHAN J |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | SONAWANE AKSHAY K |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | SONAWANE ANJALI H |
| C.R. Loco Workshop, Parel | 15/06/2017 | 30/6/2017 | SULE RAHUL P |
| C.R. Loco Workshop, Parel | 19/06/2017 | 25/6/2017 | SURYAWANSHI DIVYESH |
| Industrial Boiler | 20/6/2017 | 8/7/2017 | TAMBE NIKHIL P |
| | ıl | | |

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| Wartsila India Ltd | 23/6/2017 | 8/7/2017 | TAMBE SANKET D |
|------------------------------|------------|------------|------------------------|
| C.R. Loco Workshop, Parel | 15/06/2017 | 30/6/2017 | TEMGHARE SURAJ D |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | THOKALE PRAFUL S |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | TOPALE SAGAR D |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | TULE VICKY |
| MSRTC, Thane | 1/7/2017 | 10/7/2017 | VIBHUTE SWATI Y |
| MSRTC, Thane | 2/1/2017 | 9/1/2017 | WABLE AKASH U |
| C.R. Workshop, Matunga | 1/7/2017 | 15/7/2017 | PARDESHI |
| CEAT Ltd , Bhandup | 17/7/2017 | 28/7/2017 | NIKHIL |
| Deepak Fertilizer | 19/6/2017 | 3/7/2017 | AGIVALE PRASAD S |
| CEAT Ltd , Bhandup | 14/6/2017 | 28/7/2017 | ANSARI SHAMSHAD |
| Kamal Hyundai | 20/6/2017 | 19/07/2017 | BAGDE NITESH S |
| Mazgaon Dock | 15/06/2017 | 30/6/2017 | BANGAR RAHUL V |
| C.R. Workshop, Matunga | 21/6/2017 | 8/7/2017 | BERDE SAIRAJ S |
| C.R. Workshop, Matunga | 20/12/2016 | | BHINGARDEVE VINAYAK |
| JNPT, Uran | 15/06/2017 | 14/7/2017 | BONDE SEJAL |
| Bobmay Dyeing | 16/6/2017 | 30/6/2017 | CHAVAN SANDEEP S |
| C.R. Loco Workshop, Parel | 21/06/2017 | 8/7/2017 | CHAVAN VAIBHAV C |
| Deepak Fertilizer | 19/6/2017 | 3/7/2017 | DINKAR SACHIN A |
| Automotive Manufacturers | 15/06/2017 | 8/7/2017 | DUBEY SHAILES M |
| Deepak Fertilizer | 19/6/2017 | 3/7/2017 | GAONKAR SHIVRAM |
| C.R. Workshop, Matunga | 20/12/2016 | 3/1/2017 | HALDIVE ANAND G |
| Sainath Engineering Works | 19/6/2017 | 8/7/2017 | JADHAV KIRAN V |
| G3 Motors Ltd | 21/6/2017 | 8/7/2017 | KADAM DEEPAK K |
| Mazgaon Dock | 15/06/2017 | 30/6/2017 | KADU ANIKET A |

| Sainath Engineering Works | 19/6/2017 | 8/7/2017 | KAKADE HRISHIKESH |
|------------------------------|------------|------------|------------------------|
| C.R. Workshop, Matunga | 20/12/2016 | 3/1/2017 | KAMBLE PRASHANT |
| C.R. Workshop, Matunga | 20/12/2016 | 3/1/2017 | KAMBLE TUSHAR S |
| Ninad Engineering Works | 15/06/2017 | 30/6/2017 | KARANDIKAR MUKUL |
| Excel Industries Ltd | 15/06/2017 | 30/6/2017 | KASBALE SANMAY |
| Kamal Hyundai | 20/6/2017 | 19/07/2017 | KHARPADE PRAYAG P |
| ION Excahnge Ltd | 26/6/2017 | 15/07/2017 | KUMAR ASHISH A |
| CEAT Ltd , Bhandup | 14/6/2017 | 28/7/2017 | MADHAVI NITIN |
| Deepak Fertilizer | 19/6/2017 | 3/7/2017 | MANE PRATHMESH P |
| Shinevel Industries | 10/6/2017 | 26/7/2017 | MAURYA SHYAM H |
| C.R. Workshop, Matunga | 20/12/2016 | 3/1/2017 | MEHETRE AAVIRAJ B |
| Automotive Manufacturers | 15/06/2017 | 8/7/2017 | MISHRA ASHUTOSH |
| C.R. Workshop, Matunga | 20/12/2016 | 3/1/2017 | NANIWADEKAR CHINMAY |
| C.R. Workshop, Matunga | 22/12/2016 | 3/1/2017 | NIKAM VINAY B |
| C.R. Workshop, Matunga | 20/12/2016 | 3/1/2017 | PARDESHI SAGAR S |
| Automotive Manufacturers | 15/06/2017 | 8/7/2017 | PATIL ROHAN V |
| C.R. Workshop, Matunga | 16/6/2017 | 30/6/2017 | POOJARY ABHISHEK S |
| Ninad Engineering Works | 15/06/2017 | 30/6/2017 | SHAH PARTH C |
| Sainath Engineering Works | 19/6/2017 | 8/7/2017 | SHAIKH MUSTAQ AHMED |
| Automotive Manufacturers | 15/06/2017 | 8/7/2017 | SHINDE SHUBHAM V |
| Deepak Fertilizer | 19/6/2017 | 3/7/2017 | SHIRKE MAYURESH S |
| Deepak Fertilizer | 19/6/2017 | 3/7/2017 | WADATE ROHIT P |
| Sainath Engineering Works | 19/6/2017 | 8/7/2017 | YADAV PRAVIN M |
| Computer Department | | | |

| Internship | GNUKhata | Digital Freedom | 1 sept 2017 | 06 |
|--------------------------------|---|---------------------------|--------------------------|-------------------|
| memsnip | Givervilla | Foundation | till finished | 00 |
| Internship | Doctor Daily Dairy | Technojack | 5 Nov 2017 to | 04 |
| P | _ = = = = = = = = = = = = = = = = = = = | Infosolution | 4 th Jan 2018 | |
| | | Giftrack | 1 July 2017 to | 01 |
| Internship | | Technologies | (Project | |
| 1 | | e | Completion | |
| On Job | E commerce | Zepo | 5 March 2018 | 01 |
| Training | | | 10 Aug 2018 | |
| 3.5.3 MoUs sign | ned with institutions of n | ational, internationa | al importance, ot | her universities, |
| industries, corpo | orate houses etc. during t | he year | | |
| Organisation | Date of MoU signed | Purpose and | Number of stuc | |
| | | Activities | participated un | der MoUs |
| | | | | |
| FE Department | | | 1 | T |
| B. N | July 2016 | Research and | 10 | |
| Bandodkar | | academic | | |
| college of | | guidance | | |
| science.Thane | 1 1 0 01 <i>C</i> | D 1 1 | 10 | |
| CKT College | July 2016 | Research and | 10 | |
| of | | academic | | |
| Science, Panvel | 4 | guidance | | |
| Civil Departme | | Skill | 180 Students | 20 faculties |
| CAAD centre | 10 May 2016 To 9 | | 180 Students | 20 faculties |
| training | May 2019 | Development | | |
| services | | Training | | |
| IT Department | | | | |
| IT Department S B Infotech, | 03/03/2016 To | Seminar | 35 | |
| Jalgaon | 05/05/2010 10 | Semmar | 55 | |
| Jaigaon | 28/02/2021 | | | |
| | | | | |
| CMS IT | 01/03/2016 | Faculty | 13 | |
| services Pvt. | | Development | | |
| Ltd. | To 28/02/2021 | Program | | |
| | | E . | | |
| Mechanical De | | 1 | 1 | |
| ISHRAE | 13/01/2018 | Activities and | 50 students | |
| (Mumbai | | expert talk | and 2 | |
| Chapter) | | | faculties | |
| E&TC departn | | | | |
| Saitronics the | 01/08/2017 | Activity: | 32 students | 02 teachers |
| universal | | Technical | | |
| solutions. | | workshop on | | |
| | | "Arduino | | |
| | | Programming" | | |
| | | Purpose: To make students | | |
| | | make students | | |

| | | | - | |
|---|------------|---|-------------|-------------|
| Copper track | 26/7/17 | learnt Arduino programming by developing various applications which will be beneficial for developing the projects Activity: | 35 students | 03 teachers |
| Industry, Nashik | | Industrial Visit Purpose: To bridge the gap between theoretical training and practical learning in a real-life environment. | | |
| Computer Dep | artment | · | • | |
| H.R. Software Solution, Jalgaon | 1 Dec 2015 | To bridge the gap between academic and industry | 20 | 02 |
| CMS IT Services, Kharghar | 2 May 2016 | To bridge the gap between academic and industry | 25 | 01 |
| E-Incarnation Recycling Pvt. Ltd. | 14-02-2017 | E Waste Collected From College | 20 | 02 |

| CRITERION IV – II RESOURCES | NFRASTRUCTURE A | ND | LEARNING | | |
|---|----------------------------------|--------|----------------------------|--|--|
| 4.1 Physical Facilities | | | | | |
| | cluding salary for infrastruct | ure a | ugmentation during the | | |
| year | 6 | | 5 5 | | |
| Particulars | Budget allocated for | | Budget utilized for | | |
| | infrastructure augmentation | l I | infrastructure development | | |
| | _ | | | | |
| Fixed Asset Block @ 100% | | | | | |
| infrastructure | 90000 | 0.00 | 820104.00 | | |
| Furniture & Fixture - | 100000 | 0.00 | 850832.00 | | |
| College | | | | | |
| Computer | 50000 | 0.00 | 474320.00 | | |
| Computer Software | 160000 | 0.00 | 1507696.00 | | |
| Air-Condition (Split) | 100000.00 | | 89000.00 | | |
| Electrical Installation | 300000.00 | | 201654.00 | | |
| Total | 440000 | 0.00 | 3943606.00 | | |
| 4 1 2 Details of augmentat | ion in infrastructure facilities | : duri | ng the year | | |
| Facilities | Existing | | ewly added | | |
| Campus area | 2.25 acres | | - | | |
| Class rooms | 38 | | - | | |
| Laboratories | 58 | | - | | |
| Seminar Halls | 6 | | - | | |
| Classrooms with LCD facilities | 7 | | - | | |
| Classrooms with Wi-Fi/ LAN | 10 | | 5 | | |
| Seminar halls with ICT facilities | 7 | | - | | |
| Video Centre | 0 | | 1 | | |
| No. of important equipments purchased (\geq 1-0 lakh) during the current year. | 6 | | - | | |

| Value of the equipment purchased during the year (Rs. in Lakhs) | 33,93,142/- | 15,07,696 |
|---|-------------|-----------|
| Others | | |

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 Version Year of automation automation (fully or partially) Biyane Technologies Library Fully 2015-2016 Management Systems. 4.2.1 Library Services: Newly added (2017-18) Existing Total No. Value No. Value No. Value 68449.00 Text Books 21511 5314799 115 21633 5246350 Reference 4927 1587340 57 33345.00 4977 1553995 Books e-Books 105 (2017-Journals 98 (2016-2158862 254675.00 105 254675.00 17) 18) Journals 106 (2018-266775.00 106 266775.00 19) e-Journals Digital Database CD& Video 1880 Library YES automation Weeding (Hard NIL NIL 42 9326.00 42 9326.00 & Soft) Others (specify)

| 4.3 IT I | nfrastructu | re | | | | | | | |
|----------|--------------------|------------------|-----------|---------------------|---------------------|--------|-------------|---------------------------------------|--------|
| 4.3.1 Te | chnology Uj | pgradation | (overall) | | | | | | |
| | Total Computers | Computer Labs | Internet | Browsing Centres | Computer Centres | Office | Departments | Available band width (MGBPS) | Others |

| Existing | 710 | 24 | Yes | 1 | 1 | 1 | 6 | 100 | |
|----------|-----|----|-----|---|---|---|---|-----|--|
| Added | 20 | 01 | Yes | - | - | - | - | - | |
| Total | 730 | 25 | Yes | 1 | 1 | 1 | 6 | 100 | |

4.3.2 Bandwidth available of internet connection in the Institution (Leased line) : 100 MBPS

4.3.3 Facility for e-content

Name of the e-content development facilityProvide the link of the videos and media centre
and recording facility

https://www.youtube.com/channel/UCM14Iw97mnCoNZCI8knb5Uw/featured

4.3.4 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 | Name of the module | Platform | Date of |
|----------------|--|-----------|-----------|
| teacher | | on which | Launching |
| | | module is | E-Content |
| | | developed | |
| Prof. Rajashri | Single Phase AC circuits | LMS | Sep-2017 |
| Narwade | | | • |
| Prof. Neha | Optical Sources | LMS | Sep-2017 |
| Mahajan | | | - |
| Prof. Sheetal | Root Locus (Control System) | LMS | Sep-2017 |
| Bhujade | | | _ |
| Prof. Sheetal | Basics of analog Communication | LMS | Sep-2017 |
| Bhujade | | | _ |
| Prof. Megha | Cellular Concepts- Mobile Communication | LMS | Sep-2017 |
| Pande | | | |
| Prof. Mandeep | Transformers | LMS | Sep-2017 |
| Kundhal | | | 1 |
| Prof. Mandeep | Simplification of Boolean expressions using K- | LMS | Sep-2017 |
| Kundhal | Мар | | • |
| Prof. Bhoomi | Dictionary Coding | LMS | Sep-2017 |
| Patil | | | 1 |
| Prof. Vijay | Random Signal Analysis | LMS | Sep-2017 |
| Kapure | | | 1 |
| Prof. Sheetal | Fundamental concepts of Antennas | LMS | Sep-2017 |
| Bukkawar | 1 | | 1 |
| Prof. Sheetal | Smith Chart | LMS | Sep-2017 |
| Bukkawar | | | |

| Prof. Pallavi Kharat | Error Control system- Digital Communication | LMS | Sep-2017 |
|----------------------------|---|-----|----------|
| Prof. Sarita Kale | Successive Approximation ADC | LMS | Sep-2017 |
| Prof. Sarita Kale | IC 555 timer | LMS | Sep-2017 |
| Prof. Snehal Barge | Microcontroller and Applications - timers | LMS | Sep-2017 |
| Prof. Snehal Barge | Link state Routing | LMS | Sep-2017 |
| Prof. Umesh Pinjarkar | Network Security | LMS | Sep-2017 |
| Prof. Umesh Pinjarkar | Cryptography | LMS | Sep-2017 |
| Prof. Sneha Burnase | Semiconductor Memories | LMS | Sep-2017 |
| Prof. Sneha Burnase | Stick diagram and layout design- VLSI | LMS | Sep-2017 |
| Prof. Vaishali Jadhav | OSI Model in computer network | LMS | Sep-2017 |
| Prof. Anuradha | Design of asynchronous counter using JK filpflop | LMS | Sep-2017 |
| Dandwate | Data Compression Techniques | LMS | Sep-2017 |
| Prof. Pragati Pejlekar | Data Preprocessing in Database management system | LMS | Sep-2017 |
| Prof. Vrushali Thakur | Single Server Queue in Simulation & modeling | LMS | Sep-2017 |
| Thurran | Order level in Simulation & modeling | LMS | Sep-2017 |
| Prof. Shraddha Subhedar | Process management in operating system | LMS | Sep-2017 |
| | Process scheduling algorithms | LMS | Sep-2017 |
| Prof. Praveen Shinde | Project networking diagrams | LMS | Sep-2017 |
| Silling | Boundary value analysis | LMS | Sep-2017 |
| Prof. Kirti Mahamunkar | Agile Process in software engineering | LMS | Sep-2017 |
| wanamunkar | Software configuration management | LMS | Sep-2017 |

| Prof. Ragini | Polygon clipping in computer graphics | LMS | Sep-2017 |
|-------------------------|---|----------|----------|
| Sharma | | | |
| | Bresenham's Line Drawing Algorithm | LMS | Sep-2017 |
| Prof. Rashmi | Intelligent Storage System | LMS | Sep-2017 |
| Choudhary | | | |
| Computer Dept. | | | <u> </u> |
| Dr. Bharti Joshi | IP addressing | LMS | 10/07/17 |
| Dr. Sanjay Jadhav | Artificial Intelligence | LMS | 18/07/17 |
| Deepa Parasar | Non-Preemptive Scheduling Algorithm | LMS | 28/02/17 |
| Deepa Parasar | Scheduling Algorithm | LMS | 15/01/18 |
| Madhuri Dalal | Image Compression | LMS | 16/08/17 |
| Arti Gore | Hamming Code | LMS | 13/09/17 |
| Arti Gore | Mobile IP | LMS | 25/01/18 |
| Sujata Bhairnallykar | Basic Cryptography | LMS | 10/08/17 |
| Monali Deshmukh | Fuzzy Set | LMS | 06/10/17 |
| Dhanraj Walunj | Constructor | LMS | 20/09/17 |
| Rina Bora | Hasse Diagram | LMS | 10/08/17 |
| Hemalata Gosavi | Pointers in C | LMS | 16/01/18 |
| Amit Gawade | Class Diagram | LMS | 18/08/17 |
| Amit Gawade | Introduction to Database | LMS | 28/02/18 |
| FE Dept. | | <u> </u> | 1 |
| Prof. Rekha Jawale | Interference in thin film Wedge shaped film Miller indices Ultrasonic Piezoelectric Method Fringe width Newton's ring | LMS | Sep-2017 |

| Dr. Suhas Sabnis | Crystallography Diamond Structure Na Cl Structure Interference due to reflected light Interference due to transmitted light Wedge shaped film Newton's Rings | LMS | Sep-2017 |
|----------------------------|--|-----|----------|
| Dr.Bhadane P.A. | Quantum Mechanics Schrodinger wave equation HCP unit cell Single slit diffraction Double slit diffraction | LMS | Sep-2017 |
| Dr. Sindhu Tayade | Introduction to fuels Zeolite Method Liquid fuels Cracking of fuel Analysis of coal | LMS | Sep-2017 |
| Dr. Deepika Patil | Introduction to polymer Types and synthesis of polymer Cracking and mining of petroleum Analysis of coal Refining of petroleum | LMS | Sep-2017 |
| Prof. Swapna Mamidwar | Numerical on Combustion of fuel Ion exchange method Knocking Corrosion EDTA method Numerical on Combustion of Gaseous fuel | LMS | Sep-2017 |
| Dr. Sayali D. Choudhari | Homogeneous function Euler's theorem Non- Homogeneous linear equation Double integration - 1 Double integration - 2 | LMS | Sep-2017 |
| Dr. S.V. Lathkar | Application & matrix coding & decoding Differential equation Higher order D.E. | LMS | Sep-2017 |
| Prof. Farah Vanu | Complex Variable Complex Integration Second order derivative of function Fourier serious Eigen values & Eigen vector | LMS | Sep-2017 |

| Prof. Harshada | 1. Rank of a Matrix | LMS | Sep-2017 |
|------------------------|--|-------|-----------|
| Pratham | Solution of Matrix Vector differential operator | | |
| Prof. Prashant | 1. Fourier series – Even- Odd function | LMS | Sep-2017 |
| Gawade | 2. System of linear equation | | |
| Prof. Reshma Chavan | 1. Successive differentiation | LMS | Sep-2017 |
| Dr. Ram Bhise | 1. Channels of communication | LMS | Sep-2017 |
| Dr. Rolly Sinha | Time Management – A Challenge Developing effective communication skills | | Sep-2017 |
| Prof. Suman | 1. Modes of Communication | LMS | Sep-2017 |
| Sharma | 2. Channels of communication | LIVIS | Sep-2017 |
| Siluina | 3. Methods of communication | | |
| | 4. Speaking is silver – listening is golden | | |
| Civil Department | | | |
| Dr. Sunil Rangari | Design of floor systems, DDRCS | LMS | Sep-2017 |
| Pooja Somani | Boundary Layer theory, FM | LMS | Sep-2017 |
| Dr Suman Rawat | Dam Site selection, EG | LMS | Sep-2017 |
| Molly Mathew | CPM Network | LMS | Sep-2017 |
| Sujaya Wadekar | Properties of fresh concrete, CT | LMS | Sep-2017 |
| Harshal Deshpande | Tension Members | LMS | Sep-2017 |
| D.M Joshi | Unsymmetrical Bending | LMS | Sep-2017 |
| Automobile Depa | rtment | | |
| Chetan Thakur | Module1(I.C. Engine- Air Standard Cycles) | LMS | 31/1/2017 |
| Sagar Khatavkar | Module 2(TOM II – Velocity of Mechanism) | LMS | 30/1/2017 |
| Amit Patil | Module 1(Mechanical Vibration- Newtons, Rayleighs, Energy Method) | LMS | 31/1/2017 |

| Chodankar Vishnudas | Module1(Heat Transfer- Conduction) | LMS | 30/01/17 |
|--------------------------|--|-----|-----------|
| | Module5(Heat Transfer-Bolilng) | | 28/11/17 |
| | Module5(Heat Transfer-Forced Convection Boling) | | |
| Mohd. Bargir | Module6(CAD/CAM/CAE-Part Programming) | LMS | 28/11/17 |
| | Module3(CAD/CAM/CAE-Canned Cycle) | | 30/01/17 |
| Lalit Bhoye | Module 3(Autotronics-P-chart) | LMS | 28/11/17 |
| Mandar Jagtap | Module4(Engineering Drawing-Projection of solids) | LMS | 24/01/17 |
| Bhavana Patel | Module 2(Chassis- Chassis and body Engineering) | LMS | 09/10/16 |
| | Module 3(Formality factor Chassis and body Engineering) | | |
| | Module 2(Punching- Production Process III) | | |
| | Module 2(Sheet metal Forming- Production Process III) | | |
| | Module 2(Stamping- Production Process III) | _ | |
| | Module 6(Welding- Production Process I) | - | |
| | Module4(Uslab-Autotronics) | LMS | |
| Namarata Bhokare | Module 5(CAMD) | LMS | 23/01/17 |
| Mechanical Depa | rtment | | |
| Prof. Madhukar Sorte | Module 5 Transportation-I PPC | LMS | 30/1/2017 |
| Prof. Chanewar Nilesh | Module 2 Types of Failure -Analysis | LMS | 5/2/2017 |
| | Module 2 Types of Pattern, Role of Pattarn | 1 | |

| Prof. Jagtap Madan M. | Module 3RAC - Air Refrigeration Cycle - I | LMS | 17/2/2017 |
|---------------------------|---|-----|-----------|
| | Module 4 RAC - Air Refrigeration Cycle - II | | |
| Prof. Ganesh Jadhav | Module 1 Properties of fluid | LMS | 3/3/2017 |
| | Module 2 Buoyancy and Stable Condition | | |
| | Module 2 Fluid Mechanics for static stability | - | |
| | Module 3 Hydrostatic force on Body | _ | |
| Prof. Sandeep Jadhav | Module 1 Dealembert's Principle | LMS | 4/4/2017 |
| | Module 2Work Energy Principle | - | |
| | Module 4Support Reactions in Beam | - | |
| | Module 2Steady flow Energy Equation | _ | |
| Prof. Prasanna Raut | Module 2 Weak form and non-weak form | LMS | 8/4/2017 |
| | Module 3 Principle of minimum potential energy | - | |
| Prof . Paramjit Thakur | Module 2 HT- Unsteady state | LMS | 12/4/2017 |
| | Module 2HT- Critical thickness of insulation | _ | |
| | Module 1HT- Basics of conduction convection and radiation | - | |
| Prof.Mitali Mhatre | Module 1Design of gauges (plug gauge) | LMS | 20/4/2017 |
| | Module 2 Design of gauges theory | _ | |
| Prof Yogesh Dumal | Module PPE –Introduction to ppe | LMS | 25/4/2017 |
| | Module 5PPE - WORKING AT HPP | 1 | |
| Prof. Sachin Solanke | Module 1 SOM - Stress | LMS | 30/4/2017 |
| | Module 3PP II - Metalcutting | 1 | |

| | Module 4 PP II - Metalcutting (merchant's Circle) | | |
|--------------------------|---|-----|-----------|
| Prof. Dinesh Pargunde | Module 1 Metal Casting | LMS | 4/5/2017 |
| | Module 2Welding | LMS | |
| Prof. Mugdha Dongre | Module 3 FEA - one dimensional Analysis | LMS | 30/3/2017 |

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

| Particulars | Assigned | Expenditure | Assigned | Expenditure |
|---------------------------------|------------|-------------|------------|-------------|
| T articulars | budget on | incurred on | budget on | incurred on |
| | academic | maintenance | physical | maintenance |
| | facilities | of academic | facilities | of physical |
| | | facilities | | facilities |
| Repairs & Maintainance-Vehicle | 30000.00 | 259407.00 | | |
| - | | | | |
| Repairs & Maintainance-Building | 100000.00 | 55666.00 | | |
| Repairs & Maintainance-Lab | 1200000.00 | 1131250.00 | | |
| Equipments | | | | |
| Repairs & Maintainance- | 20000.00 | 125867.00 | | |
| Furnitures And Fixtures | | | | |
| Repairs & Maintainance- | 500000.00 | 422817.00 | | |
| Electrical | | | | |
| Repairs & Maintainance- | 100000.00 | 57313.00 | | |
| Computers | | | | |
| Repairs & Maintainance-Geneal | 900000.00 | 809779.00 | | |
| Computer Expenses | 4000 | 3150.00 | | |
| Housekeeping Expenses | 600000 | 5600506.00 | | |
| | 0000000 | 5000500.00 | | |
| Software Expenses | 1600000 | 1507696.00 | | |
| | | | | <u> </u> |

| Website Developement | 150000 | 137510.00 | | |
|--|-------------|-------------|------------|------------|
| Gardening, Plantation And Landscaping Charges | 3500000 | 3354620.00 | | |
| Student Sport Exps. | | | 300000 | 233171.25 |
| Students Soft Skill Exp | | | 1600000 | 1573500.00 |
| Total | 14104000.00 | 13465581.00 | 1900000.00 | 1806671.25 |

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 upgrades 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. \Box 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, firefighting 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 enrollment, eligibility and scholarships of admitted students
- Training and Placement processes for ensure maximum in-campus recruitment Details of the procedures and process are available on the institute website

Weblink: <u>http://engineering.saraswatikharghar.edu.in/wp-</u> 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 fro institution | m Scholarship | 560 | 38166762 |
| Financial support fro institution | m Freeship | 572 | 38738863 |
| Financial support fro | m other sources | | |
| a) National | IT-Dept Economical Backward Scholarship IT-DeptSocial Justice Post Matrix Scholarship Mech-Dept | IT Dept01 IT Dept01 | IT Dept -42000/- IT Dept -1900/- |
| | India Bulls | Mech Dept01 | Mech Dept 53000/- |
| b) International | - | - | - |
| | ability enhancement and dev dial coaching, Language lab ntoring etc., | | |
| Name of the capability enhancement scheme | Date of implementation | Number of students enrolled | Agencies involved |
| FE Department | | | |
| D | Ω I 1st A ± 2017 | 500 | T |

| FE Department | | | | |
|--------------------|---------|------------------------------|-----|-----------|
| Proctor system | Sem I | 1 st August 2017 | 502 | Institute |
| | Sem II | 8 th January 2018 | 508 | |
| Nurture- Skill | | | | |
| development | | | | |
| Program (Soft | | | | |
| skill, Personality | | | | |
| development.) | | | | |
| SE Computer | 05/02/2 | 018-08/02/2018 | 72 | Institute |

| Year | Name of the scheme | Number of benefited | Number of benefited | Number of students v | | Number of students placed |
|---|----------------------------------|--------------------------------------|---------------------|--|----------|---------------------------|
| 5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year NA | | | | | | |
| 15/03/2018 S.EB :12/02/2018- 15/02/2018 | | | 71 | | | |
| Nurture | S.E-A : | 12/03/2018 - | 75 | | Institut | tion |
| Mechanical De | partment | | | | | |
| Departmental proctor system(counsel mentoring) | 14/5/20 ling | 17 | ALL | Departmental proctor system(counselling mentoring) | | (counselling |
| Industry institu bridge course | te 5/10/17 | | 17 | | Pratisv | vara |
| Nurture (Soft sl Development) | xill 25/9/17 | | 01 | | T&P | |
| Civil Departme | | | 01 | | TAR | |
| Proctor | 2018 | 017 | 226 | | Institut | tion |
| Nurture | 29th Jar | n.2018 – 1st Feb. | 76 | | Institut | tion |
| Corporate IT Department | | | | | | |
| Campus to | Jan. 201 23 rd Jan | 8 31 st Jan. 2018 | 29 | | | |
| Nurture | 22 nd Jai | $n.2018 - 26^{th}$ | 72 | , , | Institut | te |
| E&TC Depart Proctor system | 10 th July | 2017 | All (SE, T | E. BE) | Institut | te |
| NURTURE | | | | | | |
| development- | 5/2/201 | 0 10 0/2/2010 | 12 | | DCOL | |
| Computer Dep Soft skill | | 8 TO 8/2/2018 | 72 | | SCOE | |
| FE All branches | | 018 - 22/03/2018 | 507 | | | |
| SE Mech II | | 018 - 15/02/2018 | | | | |
| SE Mech I | | 018 - 03/02/2018 018 - 15/03/2018 | | | | |

| | | students by Guidance for Competitive examination | students by Career Counselling activities | have passed in the competitive exam | |
|---------------|---|--|--|---|----|
| Computer De | | [| ſ | | |
| 2017-18 | Seminar on higher studies(by Gate Forum) | Attended students -43 | 65 | 03 | 62 |
| E&TC Depart | tment | | | | |
| 2017-18 | "GATE- Guidance" seminar | 88 | NA | 01 | - |
| 2017-18 | Seminar on "Higher education opportunities" | 71 | NA | 01 | - |
| 2017-18 | Seminar on "Civil Services" | 25 | NA | - | - |
| 2017-18 | Nurture | NA | 72 | - | 13 |
| 2017-18 | Campus to Corporate | NA | 29 | - | 42 |
| IT Departmen | t | | | · | |
| 2017-18 | Guidance for competitive examination | 40 | GATE-3 | TOFEI-1 GATE-1 GMAT-1 | 37 |
| Automobile D | | L | L | | |
| 2017-18 | Civil service Program organized by Prof.Chetan Thakur | 60 | 60 | 0 | 13 |
| Mech Departn | | 1 | 1 | - | |
| 2017-18 | "GATE- Guidance" seminar | 60 | NA | GATE-02 | 63 |
| Civil Departm | | | | 1 | |
| 2017-18 | TIME career guidance and counselling seminar | 35 | 20 | 18 | 45 |

| 2017-18 | Amity | - | 5 | - | | | | |
|---|--|---|---|---|--|---|--|--|
| | University | | | | | | | |
| | counselling | | | | | | | |
| | for PGDM | | | | | | | |
| | | | | | | | | |
| | 5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year NIL | | | | | | | |
| Total grievances receivedNo. of grievances redressedAverage number of days for grievance redressal | | | | | | 2 | | |
| | - | | - | | | - | | |

| 5.2 Student | 5.2 Student Progression NA | | | | | | |
|--------------------------------------|---------------------------------------|---------------------------------|---|---------------------------------------|---------------------------------|--|--|
| 5.2.1 Details | of campus place | ement during the | year | | | | |
| On campus | | | Off campus | | | | |
| Name of Organizatio ns Visited | Number of Students Participated | Number of Students Placed | Name of Organizations Visited | Number of Students Participated | Number of Students Placed | | |
| Aastha Cleanrooms | 50 | 1 | Accord Communicatio n | 230 | 1 | | |
| Absolute Surveyor | 35 | 7 | Anirudh Civil Engineers and Contractors | 45 | 1 | | |
| Allerin | 65 | 3 | Automotive | 66 | 2 | | |
| Antraweb Tech | 25 | 2 | Caliber Point | 78 | 1 | | |
| Apex Services | 56 | 1 | Enkay Telecommunic ation | 89 | 1 | | |
| Ashida Electronics | 29 | 1 | Gurukrupa Interiors | 46 | 1 | | |
| Atidan | 45 | 1 | Hitech Engineering | 62 | 2 | | |
| Auto Vista | 20 | 4 | Hydroserve Technologies | 43 | 1 | | |
| Balmer Lawrie | | | IR Civil Engineers and | | | | |
| | 57 | 4 | Contractors | 92 | 1 | | |
| Bitwise | 46 | 1 | IT Sourse | 86 | 1 | | |
| Bridgelabs | 56 | 3 | Just Dial | 84 | 1 | | |
| Capgemini | 79 | 1 | Lodha | 23 | 1 | | |
| Carwale | 46 | 2 | Logixal | 24 | 1 | | |

| Direct I | 87 | 7 | Man Infra | 45 | 1 |
|-------------|------------|-----|----------------|----|---|
| Direct I | 07 | / | New India | 45 | 1 |
| DXC | | | Construction | | |
| DAC | 45 | 3 | Company | 32 | 1 |
| | T J | | Onycon | 52 | 1 |
| Eclerx | 78 | 4 | Infrastructure | 34 | 1 |
| | 70 | T | Orbital | 54 | 1 |
| Ericsson | 65 | 8 | Systems | 41 | 1 |
| Fiction 2 | 05 | 0 | | 71 | 1 |
| Fact | 79 | 4 | Powertech | 52 | 2 |
| | | · · | Progressive | 02 | |
| Franklin | | | Civil | | |
| Electric | 46 | 4 | Contractor | 26 | 1 |
| Glovve.co | | • | | 20 | 1 |
| mp | 68 | 4 | Prototech | 31 | 1 |
| | | | Smart Wireless | 01 | - |
| GVK | 80 | 20 | Pvt.Ltd | 41 | 1 |
| Hexaware | 78 | 7 | Tata Motors | 65 | 1 |
| HGS | 79 | 9 | TCS | 66 | 1 |
| Hindustan | 17 | | | 00 | 1 |
| Constructio | | | Unity Telecom | | |
| n | 50 | 2 | Infrastructure | 45 | 1 |
| | | | Viral | 10 | |
| Indus tower | 46 | 2 | Engineers | 71 | 1 |
| Infogain | 64 | 6 | WEBLOGIC | 33 | 1 |
| Just Dial | 78 | 1 | WIPRO | 56 | 1 |
| Kolte Patil | 65 | 2 | | | |
| Magus | | | | | |
| India | 23 | 4 | | | |
| Majesco | 36 | 3 | | | |
| marathon | 52 | 8 | | | |
| Microland | 45 | 5 | | | |
| Midmark | | | | | |
| India | 22 | 1 | | | |
| MindCraft | 60 | 13 | | | |
| Mouthshout | 41 | 1 | | | |
| Neosoft | 46 | 1 | | | |
| Neptunus | | | | | |
| Power | 65 | 2 | | | |
| Net Magic | 22 | 1 | | | |
| Network 18 | 44 | 2 | | | |
| Nucsoft | 62 | 1 | | | |
| Oriental | | | | | |
| Mechanical | | | | | |
| works | 54 | 1 | | | |
| Originet | 51 | 1 | | | |
| OUSTFIRE | 62 | 2 | | | |
| 55511 IKL | 02 | | | | 1 |

| Paramatrix | 66 | 1 | | | |
|---------------|------------------|--------------------|-------------------|------------|----------|
| Quinnox | 57 | 4 | | | |
| Rave | | • | | | |
| Technology | 22 | 2 | | | |
| Reliance | | 2 | | | |
| Communic | | | | | |
| ation | 77 | 4 | | | |
| Relince Jio | 63 | 6 | | | |
| Revigo | 88 | 26 | | | |
| Sanmar | 82 | 20 | | | |
| Selec | 62 | <u>ک</u> | | | |
| Control | 60 | 2 | | | |
| Shirke | 00 | | | | |
| Constructio | | | | | |
| n | 24 | 3 | | | |
| Shriram | 23 | 2 | | | |
| Spry Logic | 45 | 1 | | | |
| Sunday | 43 | 1 | | | |
| Mobility | 46 | 2 | | | |
| Sunny Real | | | | | |
| estate | 61 | 1 | | | |
| Sutherland | 90 | 10 | | | |
| Swabhav |)0 | 10 | | | |
| Tech | 42 | 2 | | | |
| Swan | 72 | | | | |
| Solutions | 36 | 3 | | | |
| Syntel | 46 | 7 | | | |
| Systenics | 40 | 2 | | | |
| Tech Flow | | | | | |
| Engineers | 74 | 1 | | | |
| Tribotech | 33 | 1 | | | |
| Ugam | 55 | 1 | | | |
| Solutions | 63 | 2 | | | |
| V2S | 52 | 4 | | | |
| Venkatesh | 550 | 7 | | | |
| Weldcraft | 78 | 3 | | | |
| XL | 10 | 5 | | | |
| Dynamics | 64 | 4 | | | |
| Yash | | • | | | |
| Industries | 550 | 9 | | | |
| Zeus | | | | | |
| Learning | 79 | 6 | | | |
| Yodlee | 1500 | 2 | | | |
| | 1000 | | 1 | 1 | <u> </u> |
| 5.2.2 Student | progression to h | igher education in | percentage during | g the year | |

| Year | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined | Name of Programme admitted t |
|----------|--|---|--|---|---|
| E&TC Dep | artment | | | | I |
| 2017-18 | Raut Swapnil Sunil | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | Vidyalankar Instittue of Technology | M.E |
| 2017-18 | Bhor Tejas Rajendra | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | Vivekanand Edu Society's Institute of Management studies and research,Che mbur | MMS |
| 2017-18 | Lade Manali Shrikant | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | Bharati Vidyapeeth's Institute of Management Studies & Research,Bel apur | MMS |
| 2017-18 | Rawle Tanvi A | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | VJTI,Mumba i | ME(E&TC) |
| 2017-18 | Patra Suvendu S. | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | Symbiosis Institute of Telecom management. | MBA (Telecom Manageme nt) |
| 2017-18 | Chaudhari Chaitali R | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | | MS (Electronics and communica tion) |
| 2017-18 | Bansode Rushabh V | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | GD Pol Foundation, YMT College of Management | MMS |

| 2017-18 | Sampada Shashri e Department | BE- Technology Electronics and Telecommunic ation Engg. | Electronics and Telecommunic ation Engg. | Welingkar's Postgraduate Diploma in Business Management. | MBA |
|------------|------------------------------------|---|--|--|--------------------------------------|
| 2017-18 | Rahul Salve, | BE- Technology Automobile Engineering | Automobile Engineering | State university of New York. | MS |
| 2017-18 | Bhavesh Pawar | BE- Technology Automobile Engineering | Automobile Engineering | State university of New York | MS |
| 2017-18 | Suyas.h K | BE- Technology Automobile Engineering | Automobile Engineering | State university of Germany | MS |
| Mechanica | l Department | 0 0 | | I | 1 |
| 2017-18 | Bukane Sameer | BE- Technology Mechanical Engineering | Mechanical Engineering | FR.CRCE, Bandra | M.E. |
| 2017-18 | Kulkarni Akshay | BE- Technology Mechanical Engineering | Mechanical Engineering | Ramprasad Chandelwal,I nst. Of Management and research Bandra | MMS |
| 2017-18 | Dhoble Apurva | BE- Technology Mechanical Engineering | Mechanical Engineering | Garware Institute of Edu. Kalina | PGDBM in mass media journalism |
| Civil Depa | | 1 | | 1 | |
| 2017-18 | Akshay KUmar Bhat | BE Technology civil engineering | Civil Engineering | University Of Cincinnati | MS |
| 2017-18 | bhujbal sagar ram | BE Technology civil engineering | Civil Engineering | Yadavrao Tasgaonkar COE And MGMT | ME Water resource engg |

| 2017-18 | Mrinmayi Tamboskar | BE Technology civil engineering | Civil Engineering | Vjti | MTech Project Manageme nt |
|---------|---|--|----------------------|---|--|
| 2017-18 | Ghokate Darshana | BE Technology civil engineering | Civil Engineering | Sinhagad College Of Engg, Pune | ME Environme ntal engg |
| 2017-18 | Sare Jay Naresh | BE Technology civil engineering | Civil Engineering | GH Raisoni College Of Engg | ME Structural engg |
| 2017-18 | Matkar Viraj , Kadlay Sunil,sathanak umar Murugaiah, Ankita Bade | BE Technology civil engineering | Civil Engineering | Amity University, Noida | MBA |
| 2017-18 | Gupta Sawan Ashok | BE Technology civil engineering | Civil Engineering | Jspm Impeial Coe | ME Structural engg |
| 2017-18 | Patil Pratik | BE Technology civil engineering | Civil Engineering | Datta Meghe Coe | ME Strucutral engg |
| 2017-18 | Yadav Brajesh | BE Technology civil engineering | Civil Engineering | Nicmar , Pune Alkesh Dinesh Modi | ME Constructio n managemen t |
| 2017-18 | Bhagyashree Panchpande | BE Technology | Civil Engineering | Institute For Financial And | MBA |

| | | civil engineering | | Managemnt Studies | | | |
|-----------------------------|-------------------------------------|--|--|--|---|--|--|
| 2017-18 | Pragvansh Pati | BE Technology civil engineering | Civil Engineering | AUT University, New Zealand | MS | | |
| 2017-18 | Abhinav Paul | BE Technology civil engineering | Civil Engineering | Auburn University Garduate School | MS | | |
| 5.2.3Students NET/SET/SI | s qualifying in sta LET/GATE/GMA | ate/ national/ intern T/CAT/GRE/TO | national level examples of the second s | ninations during s/State Governn | g the year (eg: nent Services) | | |
| Items | | No. of Students qualifying | o. of Students selected/ alifying | | Registration number/roll number for the exam | | |
| NET | | | | | | | |
| SET | | 10 | | ME17102090, ME18117307 ME18116814 ME18120038 ME18100056 ME1710 ME17101324 ME171011019 ME17107841 ME1710 | | | |
| SLET GATE | | | | | | | |
| GATE | | Computer dept 3 | | Computer- CS18S32073659,CS18S320 74051 CS18S32073228 | | | |
| | | E&TC Dept01 | l | E&TC- EC 18 | S52064284 | | |
| | | Mech Dept02 | | Mech – ME18S12073164 ME18S12059484 CE18S72072124 | | | |
| | | Civil Dept07 | | CE18S820690 | 24 | | |

| | CE18S82071037 CE18S72068016 |
|----------------------------|---|
| | CE18872046517 |
| | CE18S72080035 |
| | CE18S82051081 |
| | |
| F&TC-01 | E&TC-7159411 |
| | IT-700081 |
| Automobile-03 | |
| IT-01 Automobile Dept03 | IT-000829579 |
| IT DeptUPSC-1 | IT-0218AC0124573 |
| Civil Dept01 | PWD_JE_0038922 |
| | |
| | IT-01 Automobile Dept03 IT DeptUPSC-1 |

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

| Activity | Level | Participants |
|---|--------------------------------------|---|
| Sports Activities | | |
| Sports FOOTBALL MIT sports summit (Pune) | Level- National | Participants- 16 Rank- Top 4 out of 64 teams |
| University tournament | University Level inter college | Participants- 16 Result- lost in the third round |
| Reliance foundation youth sports tournament | Level- inter collegiate | Participants- 16 Rank- played 2 matches. (First match- 6-0 win, sec- ond match 1-1 draw |
| RAIT sports tournament, Nerul | Level- inter collegiate | Participants- 16 Rank- Top 8 |
| Sports KABADDI | University Level inter college | Participants:- 12 Rank :- lost in 3rd round |
| Sports BADMINTON* | University Level | Participants:- 6 Rank :- pre quarterfinals |

| | inter college | | |
|--|------------------------------|---|---|
| Sports CRICKET | Club matches Level Region | al | Participants :- 11 |
| Sports SWIMMING* | University Level inter co | ollege | Participants:- 5 Rank : all top in 8 |
| Sports Kho-Kho | University Level inter co | ollege | Participants:- 1 |
| Sports Weight Lifting | University Level inter co | ollege | Participants:- 04 |
| Sports Wrestling | University Level inter co | ollege | Participants:- 01 |
| | Cultur | al Activity | |
| 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 | Attendance: 452 |
| Cultural club auditions Identifying the talents and for 3,4/09/18- 2.00pm onwards | ming the clubs | College Level | Attendance: 200+ |
| Freshers auditions Identifying the new talent 6,7/09/18- 4.00pm onwards | | College Level | Attendance: 250+ |
| Ganpati Festival , Grand welc lord Ganesh | oming of the | College Level | Attendance : 1000+ |
| 12/09/18- 2.00pm onwards 2.00-3.30pm :Banjo 3.30-4.30pm : Dhol tasha | | | |
| Freshers party Welcoming and show casing talent of fresh- ers 28/09/18- 4.00pm onwards | | College Level | Attendance: 800+ |
| Garba night ,Celebrating the e tival 10/10/18 - 4.00pm onwards | enchanting fes- | College Level | Attendance: 1000+ |

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/ International | Sports | Cultural | Student ID number | Name of the student |
|------|-----------------------------|--------------------------------------|--------|----------|-----------------------------|---------------------------|
| 2017 | Gold medal | National Level Thaiboxing | yes | - | S156028 | Gurinder singh manan |
| 2018 | Gold/Bronze medal | International Indo –Ryu Karate | yes | - | FE Student ID is pending | Mr.Prathmesh Shirodkar |

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

The Student Council 2018-19 of Saraswati College of Engineering, Kharghar consists the hearts and souls of its 27 members. The general process of selection of council members primarily is carried out via the interested students first filling the application form and submitting their certificates to the assigned in charge faculty. Then, the students are shortlisted for the interview round which lasts for almost 2 days after which the qualified students are selected and finally the council is formed.

The Student Council is a body which represents the entire college. Each member of the student council also stands individually as a representative for the entire college. The posts in the Council are as follows: General Secretary, General Advisor, Cultural Secretary, Cultural Club Coordinator, Joint Cultural Secretary, Treasurer, Sponsorship Head, Technical Head, Joint Technical Head, Software Development Head, Documentation Head, Lady Representative, Academic secretary, Editor in Chief, Publicity Head, Security Head, Joint Security Head, Logistics Head, Joint Logistics Head, Head of Operations, Sports Secretary, Joint Sports Secretary, Creative Head, Joint Creative Head, Hospitality Head. The first mentioned posts are usually referred to as the core mains, however in this year's council no such difference is kept. 'All are equal, all should work equal and dedicate themselves equally,' this has been the motto.

Many events have been conducted by the Council at the college level, starting from Teacher's Day, then Ganpati Aagman, Fresher's Party and Garba Night. During all these events, there was a lot an involvement from the teachers as well as good response from the students and the first years as well. Events were conducted by keeping in mind uniqueness, non-repetitiveness and new themes

and 'state to the date' ideas. With every successful event and its grand execution, a new bench mark was set every time by the student council.

The Council and its members play a very profound role in the happenings of the college and to bring everyone together. By conducting these events, they serve all the students as well as the whole faculty of the college. They learn and imbibe themselves constantly with discipline, administrative skills and leadership skills and project the same. After every success they achieve, they can create an invincible aura all around for every other student to learn and get pumped up with the same. The council works with other committee as well which depicts how well they can create the harmony and enrich the ultimate unity the college possess. In the end, they all able to reflect upon themselves as well as make the teachers and the whole college proud for the teachings and the qualities they have learnt from them and become the best versions of themselves.

5.3 Alumni Engagement NA

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

Not registered but we have alumni association

5.3.2 No. of registered enrolled Alumni:Nil

5.3.3 Alumni contribution during the year (in Rupees) : 50,000

5.3.4 Meetings/activities organized by Alumni Association : **Computer Department**.: Rohit Agre our alumni are supporting us in development and maintenance of website.

IT Department -Seminar on "Introduction to Oracle"

Civil department- 1). Career guidance given by Prathamesh Pawar, kunal Parmar (2016-17)

2). Pratiswara (bridge course, 1week training program)- Suraj Nair

3). SSTP for faculty by Abisht Kejriwal (CAAD centre)

E&TC department – " Pratidhwani", Alumni and present student's interaction program was arranged on 19th January, 2018. Alumni students guided present students regarding higher education, present job scenarios etc.

Automobile Department- Shudhodan Sapre and Suyash karingwar is supporting in BAJA and Supra racing events, from design of car to final testing.

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. 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 work were conveyed to the management through the IQAC team and Principal and necessary action were taken

6.1.2 Does the institution have a Management Information System (MIS)? Yes/No/Partial:

YES

By optimum use of technology, Notices are conveyed through emails and SMS to the stakeholders. SMS and e-mails regarding defaulters are sent to parents. Results are uploaded on college website. Online Feedback system and online aptitude test system is utilized for students' comfort. HRMsoftware is used for CL-leave approval and sanction process

Saraswati College of Engineering (SCOE), has 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.

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):

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. Students' council members represent their program and conveys 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

Teaching and Learning

Institute is ISO certified under ISO 9001:2008. 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.

• 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 is done by using academic diary. Maintenance of score records with respect to performance of students are 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

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 students

One major project has been submitted to BRNS and a funding of 16 lakhs has been received

13 minor research projects have been submitted to university of Mumbai

34 MOU'S has been established till 2017-18

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 is 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 in 2017-18

5 Classrooms with Wi-Fi/ LAN has been newly developed. Around 15 lakhs rupees had been spending on the Purchase of lab equipment's in 2017-18 and continuous upgradation in the campus infrastructure is initiated

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.

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.

Admission of Students

- 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 enrollment, 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 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.

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

Planning and Development

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.

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.

Administration

- 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.
- To prepare and facilitate the in-house co-curricular activities.
- To make the SCOE administration Student 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 guide-lines, 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 enrollment, 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 |
|---|------------------------------|--|--|-------------------|
| 4/12/2017 | T.Z.Quazi | Instructional Methodologies for outcome based education in mechanical Engineering | AICTE | 1000/- |
| 28 th and 29 th Dec 2017 | Madan Jagtap Janak Suthar | 11 th ISDSI (IIM,Trichy) | ISTE | 1000/- |
| March 2018 | Paramjit Thakur | STTP (Condition monitoring of equipment | ISTE | 1000/- |
| 4/12/2017 | Madhukar Sorte | Instructional Methodologies for outcome based education in mechanical Engineering | AICTE | 1000/- |

| 4/10/2017 | 22 A 11 C 1/: C | | | ICTE | | 1 | 000/ |
|---------------|--------------------------------------|-----------------------------|-------------|--------------------|------------------|----|----------------------|
| 4/12/2017- | 22 All faculties of | Faculty | | ISTE | | 1 | 000/- |
| 8/12/2017 | civil department | Intelligence | | | | | |
| | | Learning | | | | | |
| | | Module (FDP | ') | | | | |
| 2/01/2017- | Deepa Parasar | STTP on | | ISTE | | 1 | 000/- |
| 6/01/ 2017 | | machine | | | | | |
| | | learning | | | | | |
| 11/12/2017— | Vijay Kapure | Workshop on | | ISTE | | 1 | 000/- |
| 15/12/2017 | | "Numerical | | | | | |
| | | Methods | | | | | / |
| 5/12/2017- | Nilesh Patil | STTP on | | ISTE | | 10 | 000/- |
| 18/12/17 | | "Ethics and Moral Values | | | | | |
| 3/01/2018- | 09 Faculties of | Workshop on | | | | 1 | 000/- each |
| 5/01/2018 | E&TC Dept. | "Design and | | ISTE | | | |
| | | analysis of | | | | | |
| | | Antenna and | | | | | |
| | | microwave | | | | | |
| | | devices using HFSS" | | | | | |
| 12/04/2018- | Nilesh Patil | STTP on "Ne | w | ISTE | | 1 | 000/ |
| 21/04/2018 | 1 (nesh i uti | Trends in Sol | | ISTE | | 1 | |
| | | Work in | | | | | |
| | | Engineering" | | | | | |
| | of professional devel | | | | ning progran | nm | es organized by |
| | teaching and non-te | <u> </u> | <u> </u> | | | | |
| Year | Title of the | Title of the | Da | | No. of | | No. of |
| | professional | administrative | (fro | om-to) | participant | | participants |
| | development programme | training programme | | | (Teaching staff) | | (Non-teaching staff) |
| | organised for | organised for | | | stall) | | Stall) |
| | teaching staff | non-teaching | | | | | |
| | 8 8 | staff | | | | | |
| | | | | | | | |
| Automobile De | | DUC | A nd | 1 cth | 20 | | 2 |
| 2017-18 | Industry Need | PUC training | | to 6 th | 30 | | 3 |
| | Based customized | | Jan 20 | nuary 18 | participant | .S | |
| | training | | 20 | 10 | | | |
| | programs in the | | | | | | |
| | field of | | | | | | |
| | CAD/CAM/CAE | | | | | | |
| E&TC Depart | ment | | | | | | |

| | | | 1 - | T | | |
|-----------------------------------|----------------------|----------------------------------|-----------------------------------|-------------------------------|---|--|
| 2017-18 | | Advance | 4^{th} - 5^{th} | - | 02 | |
| | | training on | January | | | |
| | | Excel | 2018 | | | |
| IT Departmen | t | F 1 | 14/1/2010 | I | 20 | |
| 2017-18 | | Excel | 14/1/2018 | - | 39 | |
| | | Workshop | to 15/1/2018 | | | |
| Civil Departm | ont | | 13/1/2018 | | | |
| 2017-18 | STTP | | | 30 | | |
| 2017-18 | 5111 | | | 50 | - | |
| | Orientation | | | 10 | - | |
| | program | Jan 18 | | 10 | | |
| | gullabug revision | | | 05 | - | |
| | syllabus revision | | | | | |
| | | | | | | |
| Mechanical De | epartment | | | 1 | · | |
| 2017 | Hands free on | | 26-30 th | 33 | | |
| | ANSYS | | June | participants | | |
| | | - | 2017 | 1 1 | | |
| | | | | | | |
| | | | | | | |
| 6.3.3 No. of tea | chers attending prof | essional develop | pment progra | ammes, viz., O | rientation | |
| | efresher Course, Sho | rt Term Course, | Faculty Dev | elopment Prog | grammes during | |
| the year | | | | | | |
| | | | | 1 | | |
| Title of the pro | | Number of teachers who | | Date and Du | ration | |
| development pr | rogramme | attended | | (from - to) | | |
| | | | | | | |
| Automobile D | | 1/11 | Var ala) | 1 2th 1-1- 201 | 0 | |
| Orientation Pro Automotive Sy | | 1(Heeranand | vangde) | 12 th July 201 | 8 | |
| Orientation Pro | | 1(Chodankar | - | 12 th July 201 | Q | |
| Transfer | igramme- meat | | | 12° July 201 | 0 | |
| | gramme- Fluid | Vishnudas) 1(Sagar Khatavkar) | | 12 th January 2018 | | |
| Mechanics | gramme- i lulu | i (Sagai Kila | I(Sagai Kilatavkai) | | 12 January 2018 | |
| | lethodologies for | 1(T.Z.Quazi | 1(T Z Ouazi | | r to 15 th December | |
| outcome based | 5 | I(I.Z.QuuZi | | 2017 | | |
| mechanical Eng | | | | 2017 | | |
| Computer Dep | | I | | 1 | | |
| A | gram for AOA and | 1 | | 8 th Jan 2017 | | |
| AOA lab | | | | | | |
| Orientation Program for OS and OS | | 5 2 | | 10 th Jan 2017 | 7 | |
| lab | - | | | | | |
| STTP on Mach | ine Learning | 1 | 1 | | 2 nd Jan to 6 th Jan 2017 | |
| | | | | | | |
| Orientation Pro | gram for OS and OS | 5 1 | | 12 th Jan 2017 | | |
| lab | | | | | | |
| - | | • | | | | |

| | | 1 oth 1 1 0 0 1 7 |
|----------------------------------|--------------------|---|
| Orientation Program for CG and | 1 | 12 th July 2017 |
| CG lab | | |
| Orientation Program for Discrete | 1 | 21 st July 2017 |
| Mathematics | | |
| E&TC Department | 1 | |
| Workshop on "Arduino and | 02 | 14 th -16 th September 2017 |
| Raspberry Pi Programming" | | |
| Workshop on "Design of Solar | 03 | 21 st July 2017 |
| System" | | |
| Workshop on "Numerical | 01 | 11 th -15 th December 2017 |
| Methods" | | |
| STTP on "Ethics and Moral | 01 | 5 th -18 th December 2017 |
| Values" | | |
| Workshop on "Design and analysis | 09 | 3 rd – 5 th January 2018 |
| of Antenna and microwave devices | | |
| using HFSS" | | |
| NPTEL course on "Fiber optic | 01 | July 2018 |
| communication system and | | |
| techniques" | | |
| NPTEL course on" Principles of | 01 | July 2018 |
| signal estimation for | | |
| MIMO/OFDM" | | |
| STTP on "New Trends in Solid | 01 | 12 th -21 st April 2018 |
| Work in Engineering" | | |
| IT Department | | |
| Digital Design Lab Orientation | 1 | 20/7/2017 3hrs |
| DBMS Orientation | 1 | 24/7/2017 3hrs |
| POC Orientation | 1 | 20/7/2017 3hrs |
| DSA Orientation | 1 | 25/7/2017 3hrs |
| Java programming Lab Orientation | 1 | 13/7/2017 3hrs |
| Avishkar Research Convention | 1 | 9/11/2017 3hrs |
| Workshop | | |
| Python Orientation | 1 | 04/01/18 3hrs |
| Unix Lab Orientation | 1 | 12/1/2018 3hrs |
| COA Orientation | 1 | 10/1/2018 3hrs |
| CN Lab Orientation | 1 | 3/1/2018 3hrs |
| MPL Orientation | 1 | 10/1/2018 3hrs |
| AT Orientation | 1 | 1/1/2018 3hrs |
| Civil Department | | |
| Faculty Intelligence Learning | 22 | 4/12/2017 - 8/12/2017 |
| Module (FDP) | | |
| Mechanical Department | 1 | |
| Orientation Programme-MMC | 1(Monish Tarhekar) | 21 st July 2018 |

| | | | 1 - | | |
|--|---------------------------------|--|-----------------------|--|--|
| Orientation Programme- MSTD | | 1(Sachin Solanke) 2 (Yogesh Dhumal) | | 2018 | |
| 11 th ISDSI (IIM,Trichy) | 1(Madan Jagta 2 (Janak Sutha | 1(Madan Jagtap) 2 (Janak Suthar) | | 28 th and 29 th Dec 2017 | |
| Instructional Methodologies for | 1(M.B.Sorte) | , | 4 th Decen | nber to 15 th December | |
| outcome based education in | | | 2107 | | |
| mechanical Engineering | | | | | |
| STTP (Condition monitoring of equipment) | 1(Paramjit Tha | kur) | March 20 |)18 | |
| | | 4/6 114 | | | |
| 6.3.4 Faculty and Staff recruitmen | it (no. for permanen | t/fulltime i | recruitment | t): | |
| Teaching | | | Non-1 | teaching | |
| Permanent | Fulltime | Pern | nanent | Fulltime/temporary | |
| 53 | 112 | | 87 | 66 | |
| 6.3.5 Welfare schemes for | | | | | |
| 0.5.5 Wenale schemes for | | | | | |
| Teaching | | | | | |
| Urgent provision of finance | ial help to staff in c | ase of med | ical emerg | ency. | |
| • Provision of maternity leave | ve to female faculty | members. | | | |
| • Provision of uniforms to a | ttendants. | | | | |
| • Faculty is provided finance | cial assistance and o | n duty leav | ve for publi | ishing the technical | |
| papers in National/International | tional reputed Journ | als & conf | erences. | | |
| • E P F – Paid as per P F Ac | t to all the employe | es. | | | |
| • Gratuity – Paid as per Gra | tuity Act. | | | | |
| Group insurance policy for | r teaching staff | | | | |
| Non -teaching | | | | | |
| • Provision of maternity leave | ve to female non- te | aching lad | ies' staff. | | |
| • Provision of uniforms to a | ttendants. 🗆 Faculty | y is provide | ed financia | l assistance and on | |
| | - | - | | | |
| duty leave for publishing the technical papers in National/International reputed Journals & conferences. | | | | | |
| E P F – Paid as per P F Act to all the employees. | | | | | |
| Gratuity – Paid as per Gratuity Act. | | | | | |
| Group insurance policy for nonteaching staff | | | | | |
| Group insurance poncy for nonteaching start | | | | | |

Students

- Institute is organizing number of events under NSS and students from all programs are part of the NSS team. Prof. Ram Bhise is the in- charge faculty of NSS. Elocution competition during Vigilance awareness week was conducted on 13/10/2015. The event was organized to spread awareness and sensitizing the youth about ill effects of corruption on our society. A program on Swachyata Abhiyaan (initiated by PM) was organized on the eve of Mahatma Gandhi Jayanti 2nd October 2015. Personality development workshop was organized under NSS. A seven day Residential camp at the adopted village was planned under NSS Sr. No Name Post Contact 1 Mrs.Shilpa Kolte Member 8108188055 2 Mrs. P. Selvam Member 9821996170 3 Mr. Ram Bhise Member 9960569238 4 Mr.Madan Jagtap Member 9689613318 5 Mrs.Monali Deshmukh Member 7738376828 6 Mrs.Bhoomi Patil Member 9987042411 7 Mr.Sagar Khatavkar Member 9561305001 Self-Study Report SARASWATI Criteria-V College of Engineering.
- Health service -An MOU is signed with the Yerala Medical Trust to take care of medical emergency.
 GIC group insurance of students have been initiated from the academic year 2015-2016.
 Rotract 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 in association with IIT, clean up drives like Vashi station, Kharghar, Nirbhaya campaign, Ecofriendly Ganesha making
 Student's council is formed in the institute to contribute in the academic development, to provide encouragement for participation in extracurricular activities. Ganesha utsav, sports activities, annual culture programme "Nakshtra", paper presentation, expert lectures, workshops and seminar. Add on courses are organized in consultation with the student council. Academic calendar of the institute is also formed by taking the views of student council into consideration. Relief fund for drought areas of Maharashtra activity was initiated by the student's council.
- Transportation facilities are provided to the students to travel between kharghar railway station and the institute in subsidized cost.
- Hygienic and full-fledged Canteen facility is available in the campus.

- The institution helps to receive scholarship to SC/ST, OBC and economically weaker students from Government of Maharashtra/DTE/Samaj kalyan office/Adivasi vikas karyala as per the policies.
- Grievance redressal cell- Grievances Redressal Cell is formed in order to keep the healthy working atmosphere among the staff, students & parents. This Cell helps Staff, Students & Parents to record their complaints and solve their Problems related to academics, resources and personal grievances. Ragging Complaints will be handled as per ragging rules available on University Website. Women's development cell and Women anti-harassment cell is constituted in the institute to resolve issues of women harassment.
- Placement and Counseling cell A Career Guidance and training & placement Cell takes care of arranging various programs and experts from industry and academics are invited to guide the students in relation to higher studies and also career options. Special soft skill training program which includes aptitude test, group discussion, personality development is conducted by the institute on a regular basis by Training and placement department. □ Games and Sports & gymnasium- A gymnasium facility is provided in the campus .Sports activities are conducted during annual social event "Nakshtra". One week is reserved for sports activity after the term ends to intensify the sports participation

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/ Grants received in Rs. | Purpose | | | | |
|---|-------------------------------|-----------------------------|--|--|--|--|
| Management | 1,75,000 | Seminar, Workshop | | | | |
| Management | 1,00,000 | NSS Camp | | | | |
| Management | 4,50,000 | Annual Function "Nakshatra" | | | | |
| Management | 50,000 | Students Club | | | | |
| 6.4.2 Total corpus fund generated -Rs 50,00000/- | | | | | | |

6.5 Internal Quality Assurance System

| Audit Type | External | | Internal | |
|----------------|----------|--------|----------|-----------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | ISOQAR | Yes | IQAC |
| Administrative | Yes | ISOQAR | Yes | IQAC |

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
- As discussed in PTA meeting the number of MOCK aptitude test were increased and Personality development courses were conducted
- Members of PTA working in industry helped in training and placement activities and in arranging Industrial visits
- Development programmes for support staff (at least three)
 - IT department -Excel Workshop
 - E & TC department Workshop on "Design and analysis of Antenna & Microwave devices using HFSS" on 3rd to 5th January 2018.

| • Automobile DeptFDP on "Industry Need Based customized training programs in the | | | | | | | | |
|---|-----------------------|--|--|--------------------------|------------------------|--|--|--|
| field of CAD/CAM/CAE" on 2 nd to 6 th January 2018 | | | | | | | | |
| ApplPrep | lication aration f | n initiative(s) (mo to NIRF ranking for NBA t of 4-I Model | ention at least three |) | | | | |
| 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 | | of quality ve by IQAC | Date of conducting activity | Duration (fromto) | Number of participants | | | |
| 2017-18 | 1. | Participation in NIRF | 4 th December 2017 | | 01 | | | |
| 2017-18 | 2. | Academic Administrative Audit (AAA) conducted and its follow up action | 3 rd July 2017 | 9:00am to 5:00pm | 250 | | | |
| 2017-18 | 3. | Preparation for upgradation of ISO certificate | 3 rd January 2018 | | 01 | | | |
| 2017-18 | 4. | Application for Various awards and Rewards | 02/01/2018 | | 150 | | | |
| 2017-18 | 5. | Faculty development programme on "Retrospection of Revised IS Codes (IS 1893: Part I, IS 13920 and IS 383) and Retrofitting". | 2 nd Jan. to 6 th Jan. 2018 | 9:00 am to 5:00pm | 120 | | | |
| 2017-18 | 6. | "Training on PYTHON" | 28 th June 17 | 9.00 am to 5.00 pm | 43 | | | |
| 2017-18 | 7. | " Pratidhwani- An Interaction | 19 th January 2018 | 9:00am to 1:00pm | 150 | | | |

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| | | | 1 | |
|---------|-------------------|-----------------------------|------------|-----------------|
| | of Alumnus | | | |
| | With | | | |
| | Students" | | | |
| 2017-18 | 8. Workshop on | 7 th August 2018 | 9.00 am to | 34 |
| | Advance | _ | 5.00 pm | |
| | Python Under | | - | |
| | Institute | | | |
| | Student | | | |
| | Companion | | | |
| | Program by | | | |
| | IIT Bombay | | | |
| 2017-18 | 9. CADTECH | 17 th Sept.2017 | 9.00 am to | 89 |
| | Competition | 1 | 5.00 pm | |
| 2017-18 | 10. "Äutoinventia | 24 th Oct. 2018 | 9:00 am to | 31 Groups of |
| | 2018" | | 5:00pm | students (Auto) |
| | Students | | * | |
| | Project | | | |
| | Competition | | | |

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-to) | Participants | |
|--|---|--------------|------|
| | | Female | Male |
| Women's Day Program | Nakshatra – Annual Event in March | 200 | - |
| Fashion Show of Students on Theme of gender equality | Showcased in various colleges in Mumbai | 10 | 5 |

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources

IT Department

- 1. E-waste like electronic items are picked from entire office, and given for proper waste management through authorized vendors.
- 2. Desktops have been bought with LCD screen to save on energy.

E&TC Department

- 1. Electronics and telecommunication department has one green laboratory which runs completely on Solar energy.
- 2. To promote the environmental consciousness among students, various energy saving projects were carried out such as E- Rikshaw, E-Swachcha etc.
- 3. Tree Plantation by NSS with all departments
- 4. Carpool, Bikepool
- 5. Cleanliness Drive in different areas

Computer Department

E-Waste: Saraswati College of Engineering has taken initiative towards E waste management. College has signed MoU with E-Incarnation Recycling Private limited which process recycles destroys and displace the received material in efficient manner accordance with local and government rules. It will help to protect the environment. Agreement signed between Saraswati college of Engineering, Kharghar and E-Incarnation Recycling Pvt Ltd.

Civil Department

Students from CESA(Civil Engineering Student Association) and IWWA (Indian Water Works Association) participated in installation of solar panels in BorimalPada. (2017-18)

2. Students from CESA and IWWA constructed water tanks in Shirsonicha Pada in Palghar district (2016-17)

7.1.3 Differently abled (Divyangjan) friendliness

| Items Facilities | | | Yes/No | | No. of Beneficiaries | | | |
|---------------------|------------------|-----------------------|-----------------|----------------|----------------------|--------------------------|------|---------------------|
| Physical facilities | | | Yes | | 02 | | | |
| Provision f | | Yes | | | All | | | |
| Ramp/ Rai | | Ramp | | | All | | | |
| | tware/facilities | | | | | | | |
| Rest Room | IS | Yes | | | 07 | | | |
| | examination | - | | | 01 | | | |
| | ll development | -yes | | | · · · · | . of students). | | |
| for differen | ntly abled | | | | | nal year stude | | |
| students | | | | | | t work in both | | |
| | | | | | | vited Mr. Kris | | |
| | | | | | | Sir, founder D | - | |
| | | | | | | m foundation, | | |
| | | | | | | lect proper top | | |
| | | | | | | ful for society | | |
| | | | | | given | chance for inte | erns | hip. |
| | similar facility | | | | | | | |
| | sion and Situat | | | 1.0 | | | | . . |
| | - | , NSS Rotary Club A | Activities, Poo | ol Cam | pus, Kł | harghar cleann | ness | Drive, |
| Samaj Kal | | • .• . • . • • | | 1 | | 1 1 1 | | 1 . |
| | t important init | iatives taken to addr | ess locational | advan | itages a | nd disadvanta | ges | during |
| the year | | | | NT | C | т | ЪT | 1 0 |
| Year | Number of | Number of | Date and | | ne of | Issues | | imber of |
| | initiatives to | initiatives taken | duration of | the | <i>.</i> . | addressed | | rticipating |
| | address | to engage with | the | initi | ative | | | idents and |
| | locational | and contribute to | initiative | | | | sta | .TT |
| | advantages | local community | | | | | | |
| | and disadvantage | | | | | | | |
| | disadvantag | | | | | | | |
| Computer | es | | 1 | | | 1 | | |
| 2017-18 | Department | | OCT 2017 | Current | or of | 1.Economic | | No. of |
| 2017-18 | 4 | | 001/2017 | Surve | | conditions | | NO. OI students: |
| | | | | Taloj Villa | | 2. Male | | 200 - In |
| | | | | Villa | ge | 2. Male Female | | |
| | | | | | | | | group of |
| | | | | | | participation and ration | | 5(40 |
| | | | | | | and ration | | groups) |

| | | | 3. Education, Schools, availability of teachers, Employability 4. Skills and technical education 5. Female participation, Social condition and Employment 6. Health and Huygens 7. Electricity supply and Street lights 8. Water and sanitation 9. Transportation facility 10. Knowledge of various Government schemes. | |
|--|------------------------------|--|---|------------------|
| | 8/4/2018 to 14/04/2018 | Samaj Kalyan scholarship | Document verification of nearby colleges has been done to release scholarship of eligible students | 200 |
| | 14th June 2018 | Static Career Guidance by Secretary MSBTE | Awareness to benefits of studying diploma in every branch of Engineering and its future aspects. | |
| | June5 & 6 2018 | Admission Process | 1.Admission process of First Year | No. of students: |

| | | | | Engineering, 2.Application form filling, Option form filling & allocation of Institutes | approx. 500 |
|--|---|---------|--|--|--|
| | 6 | 8/8/17 | Cleanliness drive at Kharghar station | To clean Kharghar station premises and promote Swachh bharat abhiyan | No. of students: 40 |
| | | 11/8/17 | Cleanliness at navrang market | To clean market place and promote Swachh Bharath abhiyan | No. of students: 30 |
| | | 2/10/17 | Cleanliness at karnala fort | To clean karnala fort and create awareness among tourists visiting promote Swachh Bharath abhiyan | No. of students: 23 |
| | | 25/9/17 | Blood donation camp | To create awareness about blood donation process and help needy patients with blood donation | No. of students: 195 No. of staff: 05 |
| | | 3/10/17 | Cyclothon | To motivate peoples to use bicycles, conserve fuel and save environment | No. of students: 16 No. of staff: 01 |

| Activity | Duration (fron | nto |) Numb | er of participants | |
|---|-----------------------|---------|--|--|---|
| Handbook on " Code Ethics and conduct" 7.1.6 Activities condu | , 17/09/2 | | and effective institute. The and Women' cell meets represent the grievance of the grievance. The grievance of the grievance of the grievance of the grievance of the the grievance of the Print Chairmant. As per the taken there of the grievance of the taken there of the grievance of the taken there of the taken the taken there of the taken there of the taken the taken there of the taken tak | /complaint receive ed on its nature s conceded by the ncipal who is also of the cell. e cell report the ac reon. d, the Principal set ommittee to study e matter. | of the evance II. The ate the es the de of kamine can be can can be can |
| Title | Date of Publica | tion | Follow up (m each) | aximum 100 word | ls |
| Code of conduct (hand | | | | | |
| 7.1.5 Human Values a | nd Professional Ethic | ·s | kharghar station | swachh bharat abhiyan | |
| | | | in societies near | among peoples and promote | 16 |
| | | 26/1/18 | Cleanliness awareness | awareness | No. of studen |

| | , | |
|--------------------|------------|------------------------|
| Activity name | Duration | Number of participants |
| Women Empowerment | 12/10/2017 | 300 |
| Taloja Gaon Survey | 13/10/2017 | 11 |

| Guru Poornima | 27/07/18 (2pm to 4pm) | 50 members |
|---|---|---|
| Reviving old smiles(charity event for old age) | Oct 2017 | 30 |
| Construction of Ferrocement Water Tank at Borimal Pada | 24/12/2017 to 30/12/2017 | 72 |
| Seminar on Civil Services | 19/01/2018 | 350 |
| Ride for Pride | 09/\02/2018 (3pm to 8pm) | 87 organization committee Members, 78 bikers, 1670 audience |
| Youth Exodus | 28/03/2018 | 300 |
| Maa Tuzhe Salam | 04/10/2018 | 310 |
| Blood Donation | 4/10/2018 (10am to 4pm) | 230 members |
| 'NURTURE' Skill Development Program FE- All Branches SE-Automobile SE- Computer SE- Mechanical-A SE- Mechanical-B SE- Mechanical -C SE-IT SE- Extc-A SE-Civil-A SE-Civil-A SE-Civil-B SE-Civil-B SE-Civil -C 'NURTURE 'Skill Development Program Event- Nurture Youth Uprising (All branches SE) | 2016 - 17 $18/01/2016 - 06/04/2018$ $30/01/2018 - 03/02/2016$ $16/01/2016 - 20/01/2016$ $22/02/2016 - 15/03/2016$ $26/09/2016 - 29/09/2016$ $03/10/2016 - 06/10/2016$ $09/01/2017 - 13/01/2017$ $01/08/2016 - 05/08/2016$ $23/08/2016 - 11/08/2016$ $23/08/2016 - 26/08/2016$ $29/08/2016 - 01/09/2018$ $06/03/2017 - 10/03/2017$ | 580 70 74 81 63 65 62 70 68 66 600 |
| 'NURTURE'- Personality Development Seminar (DSE Civil & Extc) | 22/02/2017 | 32 |

| 'NURTURE' Skill | | |
|------------------------------------|--|----------|
| development Corporate | | |
| Readiness Seminar | 19/07/2016 | 204 |
| BE- Mech (A, B, C) | 15/07/2016 | 71 |
| BE- Computer | | |
| | 21/07/2016 | 75 |
| Corporate readiness, | | |
| Group Discussion & | | |
| Interview Guidelines | | |
| BE- Registered | | |
| students(Navy) | | |
| | | |
| | | |
| | | |
| 'NURTURE' Skill | | |
| Development Program | 2017 - 18 | |
| (Personality | | |
| Development, Soft skill | | |
| & Communication skill) | | |
| | | 504 |
| FE- (All Branches -Div | 22/01/2018 22/02/2018 | 504 |
| A-G) | 22/01/2018 - 22/03/2018 | 7(|
| SE- Information | 29/01/2018 - 01/02/2018 | 76 |
| Technology | 29/01/2018 - 01/02/2018 | 72 |
| SE- Computer SE-Mechanical-A, C | 05/02/2018 - 08/02/2018 | 72 75 |
| SE-Mechanical-A, C | 12/03/2018 - 08/02/2018 12/03/2018 - 15/03/2018 | 75 |
| | 12/03/2018 - 15/03/2018 12/02/2018 - 15/02/2018 | / 1 |
| 'NURTURE' Skill | 12/02/2010 - 13/02/2010 | 600 |
| Development Program | 06/03/2017 to 10/03/2017 | 000 |
| Event | 00,03,2017 (0 10,03,2017 | |
| Youth Uprising | | |
| All Branches-SE | | |

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

- 1. Implementation of Go green concept through presenting visitors, guests, participants in various activities by giving sapling as a token of appreciation.
- 2. Avoidance of plastic means.
- 3. Reduction in paper work.
- 4. We motivate faculty to use carpools as per their convenience for optimal use vehicles and avoid pollution

- 4. We encourage the students to use college transport system for conveyance resulting in reduced use of personal vehicles and waste of fuel
- 5. Eco friendly Ganesha & Diwali Festivals Celebration.

7.2 Best Practices

Describe at least two institutional best practices

1). 4-I Model

The concept of 4-I model is primarily focused on strengthening the teaching learning process and quality enhancement in all aspects and continuous improvement in all levels and holistic development of the students

The 4- I model comprises of

a).Students satisfaction index

Student's satisfaction through teacher's feedback: Teacher 's feedback is obtained twice in semester and corrective measures are taken accordingly for effective teaching learning. It is observed that student's satisfaction has improved substantially in last year's owing to effective teaching learning process.

b). Parent's satisfaction Index

Parent's satisfaction through teacher's feedback: parents teacher meeting(PTM) is arranged every semester so that the parents are aware of their wards performance in academics and the efforts taken by the institute for the growth of the students through extracurricular activities and the infrastructure facilities provided by the institute for the students. It is observed that there is a continuous improvement in parent's satisfaction index over the years last four years because of effective teaching learning process.

c). Alumni Satisfaction Index

Alumni's satisfaction through overall feedback: Our alumni are our great assets .They are portraying the vision of the institute in the outside world and their performance and their wellbeing us are main priority. To strengthen our academic process and other activities that will help our present students to be industry ready in all aspect ,SOE arrange alumni meet every year wherein the alumni opinion is noted in respect to add on courses to be added to bridge the gap between the curriculum and industry requirements .Feedback is obtained once in year and corrective measures are taken accordingly. It is observed that Alumni satisfaction has improved significantly in over last years

d). Employer's satisfaction index

Feedback is obtained once in year from employers for their requirement to make our students industry ready and corrective measures are taken accordingly. It is observed that Employers satisfaction has sustained in last four years

2. By the students and for the students

Better learning happens in an informal environment with enjoyable friendly learning experiences, Saraswati college of engineering had established this innovative concept in 2012-13 of "by the students for the students." which has gain momentum and has become our best practice over the years and more and more activities are conducted by the students for the students

The five core propositions that made this practice popular were : 1) commitment of students for learning, 2) readiness of experimentation and sharing of knowledge, 3) managing and monitoring student's learning, 4) Systematic team work and 5) output orientation and competitive spirit.

The Practice includes, choosing the expertise area, Diversification of students, Interaction between the students and management for the required logistics, Transfer of knowledge and Skills, competitive spirit, feedback for skill development.

The success of this practice is evident from Skill improvement and practical knowledge, internship ,Improvement in Organization skills ,Improvement in participation in project competitions, Improvement in research papers by students

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link Weblink: <u>http://engineering.saraswatikharghar.edu.in/wp-content/uploads/sites/6/2018/12/Best-Practices.pdf</u>

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust

1).Research Promotion

At Saraswati College of Engineering, R&D is pursued with the following objectives:

- 1. To acquire new scientific knowledge.
- 2. To design novel methodologies in all the fields of Engineering and Technology.
- 3. To develop new tools and techniques to expedite problem solving with special

emphasis on rural and socially relevant issues.

The Research Promotion Scheme of SCOE aims to nurture research culture in the institute by promoting research in newly emerging and challenging areas of science and engineering. It encourages the Undergraduate and Post graduate candidates to undertake the research in newly emerging frontier areas of science and engineering including multidisciplinary fields. This enhances the general research capability of budding technocrats by way of participating in conferences, seminars, workshops, project competition, etc.

The major R&D activities are as follows:

- External Funded Projects
- Publications in peer-reviewed Journals
- Faculty Development Programs, Conferences, Workshops, STTPs, Symposia etc. (attends and organizes)

• Procurement of high-end computational and laboratory equipments, and software for Research

- Deputation for Higher Studies
- Talks and Lectures by eminent researchers
- Industry Institute Interaction (Students and Faculty)
- Collaboration and MoU with Industry and R&D Organization

2). Holistic Development of Students

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:

• Encouraging students to take responsibility for their own learning and behavior.

- 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 behavior 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 behaviors, social and emotional development, resilience, and the ability to view beauty, experience transcendence, and truth.

Holistic education notes that Students need to not only develop academically but develop the ability to survive in the modern world. They need to be able to rise and meet challenges presented to them in the future and contribute to the world in which they live Students need to learn to first value themselves, their worth, and recognize their abilities and how to be able to do what they want in life. Doing what they want ties into the relationships that they build and how they treat those relationships.

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

Details of the club are displayed in the website

Research related data and different clubs for holistic development of students are displayed in the link

Weblink:<u>http://engineering.saraswatikharghar.edu.in/wp-</u> content/uploads/sites/6/2018/12/Institutional-Distinctiveness-n.pdf

8. Future Plans of action for next academic year (500 words)

- As awareness amongst students regarding energy conservation and waste management, the theme of final year projects of students was "Waste Management"
- Designing of automation modules through students
- NBA accreditation.
- To encourage more faculty to make use of webinar facility extensively.
- To promote self-learning and adaptation to technology among students.
- To enhance project-based
- learning.

GOAL I: -To develop an environment for the students to succeed at their highest level through high quality academic programs, co-curricular and extra-curricular activities and community outreach based programs

- Be among the highly respected institutions in the Navi Mumbai for undergraduate and post graduate studies in Engineering.
- Relentlessly pursue institutional effectiveness.
- Redefine PEO's and PO's.
- To initiate the Outcome Based Education, Monitor and Implement Effectively in view of NBA.
- To ensure fair access to and affordability of academic programmes for various sections of society.
- To enhance outreach programmes for the members of the backward community.
- To enhance the number of smart class rooms in the academic departments.
- To introduce fully e-based system for different administrative processes like, admission, result publication, etc.
- To support students. (meritorious and academically weak)
- To address student grievances.
- To conduct greater numbers of seminars and workshops of National and International importance at our campus.
- To arrange special programs for teaching/non-teaching staff.

- Expand the SCOE's global footprint and influence to ensure that it is graduating global citizens.
- Recruit, retain and enable a community of exceptional faculty and staff.
- To arrange interactive skill oriented training programs

GOAL 2: -Pursue research, consultancy, innovation, and entrepreneurship activities to address the grand challenges and opportunities of the future

- To motivate faculty for Industry-Interaction with objectives to get Sponsored Projects and Placement of Students.
- Ensure that innovation, entrepreneurship, and public service are fundamental characteristics of engineering graduates.
- To strengthen industry linkages.
- Pursue research, consultancy, innovation, and entrepreneurship activities to address the grand challenges and opportunities of the future.
- To enhance collaborative research among the departments and to take initiative for inter-institutional collaboration
- To sign MOU with industries to get Industry Sponsored Projects and Internship, Training of Students.
- Sustain and enhance excellence in scholarship and research.

GOAL 3: -Enhance Engagement with Society and Industry

Enhance Alumni Engagement Alumni have been key stakeholders in the Institute's evolution and growth. Alumni achievements have been a source of pride for the Institute and have contributed significantly in society. The Institute has been recognizing alumni with Distinguished Alumnus, Young Alumnus and Distinguished Service. The Institute has more than 5,000 alumni. The Institute will make efforts to enhance the engagement with all alumni. The focus will be on a two way interaction. The Institute is committed to lifelong involvement with all students who will continue to be part of the SCOE family even after they graduate. The Institute will build its engagement on adding value and support to the alumni in their careers and professions with specialized training, lectures, access to the latest research and help with networking.

• To strengthen alumni participation

- To increase participation in Institutional Social Responsibility (ISR) and Extension activities
- To strengthen National and International linkages.
- To strengthen the liaison among the stakeholders like, students, teachers, parents, employers etc

GAOL 4: - Develop a Cleaner and Greener Campus

The Institute is committed to grow sustainably and develop as a model clean, green campus. The existing Green Campus Committee which consists of representatives from students, faculty and staff decides campus policies to promote sustainable practices and maintain the flora and fauna of the campus. Initiatives will include energy efficient appliances, increased use of renewable energy, improved solid waste and waste water management systems. The campus will move towards a reduced energy and carbon footprint (low carbon campus) and a zero-discharge campus. New innovative technologies for energy, waste management and emissions control will be showcased on the campus and their viability assessed.

- To fulfill our social obligations, arrange different programs through NSS.
- To protect the environment. We plan to conduct an Environmental Audit.

Name: Prof. Sheetal Bhujade

Shertal

Signature of the Coordinator, IQAC

Name: Dr. Manjusha Deshmukh

Signature of the Chairperson, IQAC

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Abbreviations

| I.T. | : Information Technology |
|--------|---|
| E & TC | : Electronics & Telecommunication |
| F.E. | : Humanities & Engineering Sciences |
| NET | : National Eligibility Test |
| SET | : State Eligibility Test |
| UPSC | : Union Public Service Commission |
| R & D | : Research & Development |
| HOD | : Head of the Department |
| Dept. | : Department |
| FDP | : Faculty Development Programme |
| QMS | : Quality Management System |
| MU | : Mumbai University |
| UG | : Under Graduate |
| PG | : Post Graduate |
| CBCS | : Choice Based Credit System |
| РСВ | : Printed Circuit Board |
| IOT | : Internet of Things |
| GRE | : Graduate Record Examinations |
| TOEFL | : Test of English as a Foreign Language |