



Yearly Status Report - 2019-2020

Part A

Data of the Institution

| | | |
|---|--|---|
| 1. Name of the Institution | | NAGESH KARAJAGI ORCHID COLLEGE OF ENGINEERING AND TECHNOLOGY, SOLAPUR |
| Name of the head of the Institution | | Dr. J B Dafedar |
| Designation | | Principal |
| Does the Institution function from own campus | | Yes |
| Phone no/Alternate Phone no. | | 0217-2500020 |
| Mobile no. | | 9552529320 |
| Registered Email | | basgondasonage@orchidengg.ac.in |
| Alternate Email | | office@orchidengg.ac.in |
| Address | | Gut No. 16, Solapur-Tuljapur Road, Tale Hipparaga, Solapur- 413002 |
| City/Town | | Solapur |
| State/UT | | Maharashtra |
| Pincode | | 413002 |

| | |
|--|--|
| 2. Institutional Status | |
| Affiliated / Constituent | Affiliated |
| Type of Institution | Co-education |
| Location | Rural |
| Financial Status | private |
| Name of the IQAC co-ordinator/Director | Dr. B. K. Sonage |
| Phone no/Alternate Phone no. | 09423084363 |
| Mobile no. | 9552529320 |
| Registered Email | basgondasonage@orchidengg.ac.in |
| Alternate Email | office@orchidengg.ac.in |

| | |
|--|---|
| 3. Website Address | |
| Web-link of the AQAR: (Previous Academic Year) | https://www.orchidengg.ac.in/wp-content/uploads/2019/10/Resubmitted-AOAR-report-19102019.pdf |
| 4. Whether Academic Calendar prepared during the year | Yes |
| if yes,whether it is uploaded in the institutional website: Weblink : | http://www.orchidengg.ac.in/wp-content/uploads/2019/07/Academic-calendar-2019-20-SEM-I-1.pdf |

| 5. Accrediation Details | | | | | |
|--------------------------------|-----------|-------------|----------------------|--------------------|--------------------|
| Cycle | Grade | CGPA | Year of Accrediation | Validity | |
| | | | | Period From | Period To |
| 1 | B+ | 2.73 | 2018 | 03-Jul-2018 | 02-Jul-2023 |

| | |
|---|--------------------|
| 6. Date of Establishment of IQAC | 17-Jul-2017 |
|---|--------------------|

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|---|
| 7. Internal Quality Assurance System |
|---|

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

| | | |
|---|--------------------|------|
| IQAC | | |
| Arrangement of Skill development courses | 04-Sep-2020 365 | 1978 |
| conduction of Programme Exit Survey | 04-Sep-2020 365 | 1978 |
| Inclusion of B.Tech Honors | 02-May-2020 365 | 1978 |
| Additional lectures and practicals particularly for DBATU classes | 03-Jan-2020 365 | 1978 |
| Formation of Department Advisory Committee | 08-Jul-2019 365 | 1978 |
| Inclusion of NPTEL Courses | 08-Jul-2019 365 | 1978 |
| View File | | |

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

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|--|-------------------------|----------------------|-----------------------------|---------|
| N K Orchid College of Engineering & Technology | CSR | LaFoundation, Pune | 2019 365 | 2480000 |
| Dr. V.K.Patki | University Grand Scheme | DBATU University | 2019 365 | 3000000 |
| Dr. Shrinivas S Metan | CSR | LaFoundation, Pune | 2019 365 | 450000 |
| Prof. Papade C V | CSR | LaFoundation, Pune | 2019 365 | 550000 |
| Dr. Shrinivas S Metan | CSR | TATA Technology Pune | 2019 365 | 150000 |
| View File | | | | |

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

| | |
|---|----|
| 11. Whether IQAC received funding from any of the funding agency to support its activities during the year? | No |
|---|----|

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

Inclusion of NPTEL Courses, Formation of Department Advisory Committee, Additional lectures and practicals particularly for DBATU classes, Inclusion of B.Tech Honors , conduction of Programme Exit Survey, Arrangement of Skill development courses.

[View File](#)

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

| Plan of Action | Achivements/Outcomes |
|---|---|
| Arrangement of Skill development courses | No. of placements increased |
| conduction of Programme Exit Survey | Feedback by the students made to update the curriculum |
| Additional lectures and practicals particularly for DBATU classes | Received University Ranks in DBATU results |
| Formation of Department Advisory Committee | Industry Institute interaction increased, funding increased, students are doing internships in industry |
| View File | |

| | |
|---|-----|
| 14. Whether AQAR was placed before statutory body ? | Yes |
|---|-----|

| Name of Statutory Body | Meeting Date |
|------------------------|--------------|
| IQAC | 25-Aug-2021 |

| | |
|---|----|
| 15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ? | No |
|---|----|

| | |
|--|-----|
| 16. Whether institutional data submitted to AISHE: | Yes |
|--|-----|

| | |
|--------------------|------|
| Year of Submission | 2018 |
|--------------------|------|

| | |
|--------------------|-------------|
| Date of Submission | 16-Jan-2018 |
|--------------------|-------------|

| | |
|---|-----|
| 17. Does the Institution have Management Information System ? | Yes |
|---|-----|

| | |
|---|--|
| <p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p> | <p>Integrated University Management System (IUMS) is an integrated, seamless, end to end comprehensive solution for university, to manage their entire ecosystem. The system provides for: 1. Admissions to Alumni Lifecycle for students 2. Enablement of Academic processes online 3. Effective data management and monitoring of university and colleges. 4. Online and near Paperless administration Module : 1. Administration Management 2. Faculty Management 3. University / College Management 4. Academic Management 5. Student Information Management</p> |
|---|--|

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

Planning for Curriculum Delivery 1) The college has prepared a wall-hanging calendar in which academic activities are indicated. 2) The calendar is provided to the students, teachers & parents for their reference. 3) Subject distribution and overall departmental planning is done in advance before going on vacation. 4) All the faculty members prepare teaching plan & course file of their respective subject. 5) Two tests and Mid-Sem. are conducted every semester as a part of continuous assessment system. In semester Evaluation (ISE) Marks are given based on the performance of these tests. 6) The institute is also following best practices for the department as a team. 7) Every head of department prepares annual targets for various activities & initiatives of the department. The document is shared & discussed with the faculty members. A review of all the targets is taken frequently. Target compliance report is prepared at the end of academic year & improvements are planned based on this report.

Effective Delivery & Assessment of Curriculum Delivery 1) Subject archives are available to the students and regularly updated by subject teachers department wise. Two Terra Byte (TB) hard drive data of NPTEL video lectures are made available. 2) Final year projects are selected through the visit to the industry by faculty members. 3) The sponsored projects on industry problem are allotted to students. 4) Industry mentors are identified for projects of different area & mentoring is done by them for the project. 5) Project diary is maintained for each project group & it is assessed weekly by the project guide. 6) The assessment of completed projects is done in online mode due to pandemic situation. 7) Student feedback about teaching learning is taken by HOD in every semester, generally after completion of one month of teaching. This year online feedback is conducted for second semester. 8) Feedback of individual faculty is communicated by Head of Department and suggestions are given to faculty members whose feedback is not up to the mark. 9) Regular faculty meetings are held by the HODs to review the teaching learning process, academic progress of the students, grievances if any, and suitable remedial measures are taken as and when it is necessary. Following documents are maintained related to curriculum delivery 1) Teaching plan of respective subject is prepared by faculty member before commencement of each semester & submitted to HOD. 2) Course file is maintained for each subject by respective faculty member & it is checked by HOD & Dean Academics. 3) Defaulter

student's attendance is communicated to the parent after each month in every semester. Attendance record is also maintained during online teaching mode. 4) Test record is maintained in the department & communicated to the parents. 5) Result analysis is done after declaration of semester result of university.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

| Certificate | Diploma Courses | Dates of Introduction | Duration | Focus on employ ability/entrepreneurship | Skill Development |
|--|-----------------|-----------------------|----------|--|--|
| RE 2.0 (Mechanical Dept) | Nil | 15/09/2019 | 5 | Employability | Modelling Designing |
| CNC Machining (Mechanical Dept) | Nil | 21/12/2019 | 15 | Employability | CNC programming skills, Detailed drawing reading |
| Solar Ready Engineer (Mechanical Dept) | Nil | 23/12/2019 | 15 | Employability, Entrepreneurship | Solar industry domain skills |
| Zensar Training (Python, DBMS, Software Testing Soft Skill)(ETC Dept) | Nil | 16/09/2019 | 8 | Employability | Programming Skill Soft Skill |
| Zensar Training (Python, DBMS, Software Testing Soft Skill)(ETC Dept) | Nil | 23/12/2019 | 11 | Employability | Programming Skill Soft Skill |
| Zensar Training (Python, DBMS, Software Testing Soft Skill)(ETC Dept) | Nil | 27/01/2020 | 10 | Employability | Programming Skill Soft Skill |
| Structured Query Language (CSE Dept) | Nil | 23/12/2020 | 11 | Employability | Programming Skill |
| Soft skill (Zensar Employability Skills) | Nil | 27/01/2020 | 10 | Employability | Programming Skill |

| | | | | | | |
|--|-----|------------|----|---------------|-------------------|--|
| Development Program) (CSE Dept) | | | | | | |
| Advanced C Programming Course (CSE Dept) | Nil | 18/11/2019 | 8 | Employability | Programming Skill | |
| STAAD-Pro Software | Nil | 28/05/2019 | 15 | Employability | Design Skill | |
| Revit Software | Nil | 21/05/2019 | 8 | Employability | Design Skill | |
| C Programming | Nil | 15/09/2019 | 7 | Employability | Programming Skill | |
| STAAD-Pro Software | Nil | 01/06/2020 | 30 | Employability | Design Skill | |
| STAAD-Pro Software | Nil | 17/06/2020 | 15 | Employability | Design Skill | |
| Auto CAD | Nil | 24/06/2020 | 15 | Employability | Design Skill | |
| Advance STAAD-Pro Software | Nil | 24/06/2020 | 15 | Employability | Design Skill | |
| Revit Software | Nil | 22/06/2020 | 15 | Employability | Design Skill | |

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|-------------------|---|-----------------------|
| Mtech | Computer Aided Structural Analysis Design | 01/08/2020 |
| No file uploaded. | | |

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

| Name of programmes adopting CBCS | Programme Specialization | Date of implementation of CBCS/Elective Course System |
|----------------------------------|--------------------------|---|
| BTech | All Branches | Nil |

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

| | Certificate | Diploma Course |
|--------------------|-------------|----------------|
| Number of Students | 1235 | Nil |

1.3 – Curriculum Enrichment

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

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
|---------------------|----------------------|-----------------------------|
| Soft Skill Training | 06/01/2020 | 500 |
| Aptitude Training | 06/01/2020 | 609 |

| | | |
|--|------------|-----|
| Pre-Placement Workshop | 27/05/2020 | 442 |
| Basic Human Rights | 01/07/2019 | 500 |
| Value Education, Human Rights and Legislative Procedures | 01/01/2019 | 68 |
| SQL (Zensar ESD Program) | 16/09/2019 | 76 |
| Soft skill (Zensar ESD Program) | 30/09/2019 | 76 |
| Zensar ESD Program | 16/09/2019 | 38 |
| PMS Robotic, | 27/01/2020 | 30 |
| Essence of Indian Traditional Knowledge | 01/07/2019 | 147 |
| View File | | |

1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization | No. of students enrolled for Field Projects / Internships |
|---------------------------|---|---|
| BTech | Field Training/ Internship/ Industrial | 1112 |
| View File | | |

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

| | |
|-----------|-----|
| Students | Yes |
| Teachers | Yes |
| Employers | Yes |
| Alumni | Yes |
| Parents | Yes |

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

| Feedback Obtained |
|---|
| <p>The Students' Feedback on curriculum and teaching-learning process at N K Orchid College of Engineering Technology, Solapur campus is designed to get feedback from students that can be used towards the improvements in the quality of course design and delivery, as well as student learning experiences. An effort was made to receive feedback from all students of the college. For this purpose, a google form was created and sent to students. Students' responses have been received on the syllabus and teaching learning process. In order to arrive to comprehensive results, useful statistical tools like percentages, charts etc. have been used. For the effective presentation of the data, various types of graphs have been used. The majority of the student population agreed that the syllabus is very much challenging and the allocation of credits is appropriate in relation to the level of course work. The majority of the students strongly agreed that the syllabus is covered by the teachers as per their teaching plan on given time. Also, the majority of students agreed that the laboratory experiences and practical exposure given to them enhanced their understanding of the concepts and enable them to relate theoretical components to practice. For a review of teaching-learning processes, the institute</p> |

conducts student feedback. The first feedback is taken after one month of teaching is over and approximately 30 of the syllabus is completed. The second round of feedback happens at the end of the semester. After the first round of feedback, individual reports for faculty members are generated based on the feedback given by students and improvements expected. The objective of second round of feedback is to assess whether teacher worked on the area where improvement is required. A meeting of all faculty members in the department with Head of the Department and Principal is arranged to discuss the issues raised by students in the feedback. Instructions for improvements are given to the faculty members and remedial methods for improvements are suggested. Newly joined faculty members are advised to attend the lectures of senior faculty members, and asked those faculty members to go through video lectures of faculty from IITs and NITs. If required, the faculty members are asked to discuss with soft skill trainers of the institute, if they have a problem in presentations and communication

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization | Number of seats available | Number of Application received | Students Enrolled |
|-----------------------|---|---------------------------|--------------------------------|-------------------|
| ME | Thermal Engineering | 36 | 7 | 7 |
| ME | Electronics and Telecommunication Engineering | 36 | 4 | 4 |
| ME | Computer Science and Engineering | 36 | 6 | 6 |
| ME | Structural Engineering | 36 | 13 | 13 |
| BE | Mechanical Engineering | 564 | 468 | 468 |
| BE | Electronics and Telecommunication Engineering | 471 | 274 | 274 |
| BE | Electrical Engineering | 251 | 229 | 229 |
| BE | Computer Science and Engineering | 471 | 487 | 487 |
| BE | Civil Engineering | 564 | 488 | 488 |

[View File](#)

2.2 – Catering to Student Diversity

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

| Year | Number of students enrolled in the institution | Number of students enrolled in the institution | Number of fulltime teachers available in the | Number of fulltime teachers available in the | Number of teachers teaching both UG |
|------|--|--|--|--|-------------------------------------|
| | | | | | |

| | | | | | |
|------|------|------|--------------------------------------|--------------------------------------|----------------|
| | (UG) | (PG) | institution teaching only UG courses | institution teaching only PG courses | and PG courses |
| 2019 | 1844 | 30 | 104 | 12 | 12 |

2.3 – Teaching - Learning Process

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

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Number of smart classrooms | E-resources and techniques used |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 116 | 116 | 11 | 30 | 1 | 11 |

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

1. Proctor System To keep the environment in the institute stress-free supportive for learning it has decided to form a proctor system, which will take care of not only the academic issues that students are facing but their family personal problems also. Institute strongly believes that engineering graduates should have good mental health, which includes Physical, Intellectual, Creative, and Spiritual aspects of personality. A proctor is a mentor who monitors students' development in all perspectives until students passed out from the institute. For each proctor teacher, 12 to 15 students are allotted and the proctor teacher will look after the overall development of students under him. Proctor teacher is continuously in touch with students and their parents, guide the students regularly, and help them for a successful individual. Roles Responsibilities of Proctor Teacher • Discussing performance with the students giving them guidelines for improvement. • Getting students' profiles ready. • Calling parents every month to check discuss the following points- • Receipt of monthly attendance record of their ward • Receipt of test marks after CA-1,CA-2 Mid-semester examination • Discussing the performance of the ward with parents if meritorious/medium/poor • Calling parents for parent meeting • Connect with 12th aspirants through students • Sharing achievements of the Departments/Institute with the students • Arranging conducting proctor sessions as per the timetable. 2. Students Counseling Counseling helps to shape student behavior and make them disciplined. A counselor can help students to discuss their problems and help them figure out how to solve the problems on their own. Counselors shape students into a responsible and confident adults. Looking to these requirements a counselor is appointed, who mostly counsels the newly admitted students and students who need counseling. Counselor conducts a psychological test to make profiles of students and one to one meetings are conducted to discuss and guide the students. 3. Study Sessions As first-year, students are new to engineering education and environment they need guidance on study techniques. Study sessions are arranged for students regularly before, which will help them for conceptual learning and solving engineering problems. In time table of the first year, two hours session per week is included. A subject-wise teacher is allotted to guide and monitor the study sessions.

| | | |
|--|-----------------------------|-----------------------|
| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
| 1976 | 116 | 1:17 |

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 113 | 116 | Nil | 25 | 16 |

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

| Year of Award | Name of full time teachers receiving awards from | Designation | Name of the award, fellowship, received from |
|---------------|--|-------------|--|
| | | | |

| | | | |
|---------------------------|--|---------------------|---|
| | state level, national level, international level | | Government or recognized bodies |
| 2019 | Dr. Sonage B.K | Professor | Recognised guide of DBATU for Ph.D guidance |
| 2019 | Dr.Patil N.R. | Associate Professor | Recognised guide of DBATU for Ph.D guidance |
| View File | | | |

2.5 – Evaluation Process and Reforms

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

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
|---------------------------|----------------|----------------|--|---|
| BTech | 622329310 | Semester | 15/10/2020 | 10/12/2020 |
| BTech | 622319110 | Semester | 15/10/2020 | 10/12/2020 |
| BTech | 622324210 | Semester | 15/10/2020 | 10/12/2020 |
| BTech | 622337210 | Semester | 15/10/2020 | 10/12/2020 |
| BTech | 622361210 | Semester | 15/10/2020 | 11/12/2020 |
| View File | | | | |

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

The Continuous evaluation system at the institute level is based on the following five parameters Performance in Continuous Assessment-I (CA-I) and Continuous Assessment-II (CA-II). Assignments Internal POE Journal and Assessment of Practical Class and Practical Attendance Head of Department and Class Coordinators (CC) conduct orientation programs at the beginning of every semester, in which the entire schedule and system of internal evaluation are conveyed to the students. A continuous assessment schedule is included in Academic Calendar at the institute level. Three tests are conducted in a semester. These tests are either MCQ-based or Open book based tests. Corrected papers are returned to the students if it is offline or displayed online along with marks within three days of completion of the test. Tests results are displayed on the online portals and notice board as well as sent to parents through letters and SMS. Assignments are regularly evaluated by the subject teachers. Each Assignment is mapped with CO of that particular course along with Blooms learning level. Students are made aware of regarding minimum 75 attendance requirement for granting the term. The class coordinator also informs that internal term work evaluation is based on continuous assessments. The Continuous assessment of theory is of forty marks. The twenty marks are for the Mid-semester exam and twenty marks are for tests. Continuous assessment of practicals is of sixty marks. The sixty marks are divided into attendance, Internal POE, Journal and Assessment of Practical and Class, and Practical attendance.

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

2.5.3 - Academic Calendar prepared and adhered for conduct of examination other related matters.(250 words) Academic Calendar is prepared by Dean Academics every year. This includes the academic calendar provided by the DBATU

university. The data relating to various exam CA-I, CA-II, midterm, end sem, practical, oral examinations. Along with this activities conducted at the Institute level for example foundation day, blood donation camps, sports gathering, etc are also included. This copy is given to the various departments. HOD at their level adds the departmental activities which are organized by the student's organizations of respective departments. These activities include co-curricular extra-curricular activities. In addition to this wall hanging calendar is prepared at the institute level. This calendar includes the entire schedule related to the University exams. other activities conducted at the institute level. Various activities conducted under the Training and Placement cell are also included in this calendar. These calendars are distributed to all the students. The overall execution of the Academic Calendar is monitored by the AMC (academic monitoring committee) at the institute level. This committee includes members from each department and monitoring activity is coordinated by Dean Academic

2.6 – Student Performance and Learning Outcomes

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

<https://www.orchidengg.ac.in/research-and-development/po-pso-co/>

2.6.2 – Pass percentage of students

| Programme Code | Programme Name | Programme Specialization | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|----------------|----------------|---|---|---|-----------------|
| 622324210 | BE | Computer Science Engineering | 123 | 123 | 100 |
| 622319110 | BE | Civil Engineering | 159 | 159 | 100 |
| 622329310 | BE | Electrical Engineering | 69 | 69 | 100 |
| 622337210 | BE | Electronics and Telecommunication Engg. | 80 | 80 | 100 |
| 622361210 | BE | Mechanical Engineering | 137 | 137 | 100 |

[View File](#)

2.7 – Student Satisfaction Survey

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

<https://docs.google.com/forms/d/1Io5KLWmnYQwz-TQNwul-OKj8tue6gtwGwBuFMVaI01M/edit?usp=drivesdk>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|--------------------------------------|----------|--|------------------------|---------------------------------|
| Projects sponsored by the University | 730 | DBATU, Lonere | 3 | 3 |
| Industry sponsored Projects | 365 | La Fondation Dassault Systems | 2 | 2 |
| Industry sponsored Projects | 365 | Tata Technologies Pune | 1.5 | 1.5 |
| Industry sponsored Projects | 365 | La Fondation Dassault Systems Ltd Pune Tata Technologies Ltd Pune. | 2.5 | 2.5 |
| Industry sponsored Projects | 365 | La Fondation Dassault Systems Ltd Pune Tata Technologies Ltd Pune. | 24.55 | 24.55 |
| View File | | | | |

3.2 – Innovation Ecosystem

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

| Title of workshop/seminar | Name of the Dept. | Date |
|--|-------------------|------------|
| STTP on ICT through Theory , Operation and Applications of transducers and actuators in indsutry | Electrical | 30/12/2019 |

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

| Title of the innovation | Name of Awardee | Awarding Agency | Date of award | Category |
|-------------------------------|--------------------|-----------------|---------------|--------------------------------------|
| Portable refrigeration system | Mr. Yaseen Dakhani | UGC | 28/01/2020 | Avishkar interuniversity competition |
| View File | | | | |

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

| Incubation Center | Name | Sponsered By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|-------------------|------|--------------|----------------------|--------------------|----------------------|
| NIL | Nil | Nil | Nil | Nil | Nil |
| No file uploaded. | | | | | |

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

| State | National | International |
|-------|----------|---------------|
| | | |

No Data Entered/Not Applicable !!!

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

| Name of the Department | Number of PhD's Awarded |
|------------------------|-------------------------|
| NIL | Nill |

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

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---------------------------|---------------------|-----------------------|--------------------------------|
| International | CSE | 3 | Nill |
| International | Electrical | 4 | Nill |
| International | General Engineering | 3 | Nill |
| International | Civil | 11 | Nill |
| International | Mechanical | 18 | Nill |
| View File | | | |

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

| Department | Number of Publication |
|---------------------------|-----------------------|
| CSE | 5 |
| General engineering | 3 |
| Mechanical | 1 |
| Civil | 2 |
| View File | |

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

| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|---|-------------------|--|---------------------|----------------|---|---|
| Developm ent of water quality index for Godavari River (India) based on fuzzy inference system " G roundwater and Sustai nable Deve lopment | Dr V K Patki | Groundwa ter and Su stainable Developmen t | 2019 | 4 | N K Orchid College of Engineerin g and Tech nology, Solapur | 1 |
| Assessment of Water | Dr Jahagirdar S S | The Inte rnational Journal of | 2019 | 5 | N K Orchid College of | 1 |

| | | | | | | |
|---|----------------|---|------|---|---|---|
| Quality Index for Hipparga Lake in Solapur City". | | Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 8(6), 7364-7369. | | | Engineering and Technology, Solapur | |
| Performance Evaluation of IC Engine with Preheated Fuels - A Review | S S Kale | International Research Journal of Engineering and Technology | 2019 | 1 | N K Orchid College of Engineering and Technology, Solapur | 1 |
| synthesis and characterization of zinc oxide green nano particles | Dr Sonage B K | International Journal of Emerging Technologies and Innovative Research | 2019 | 4 | N K Orchid College of Engineering and Technology, Solapur | 1 |
| Vertical handoff in future heterogeneous 4G network | Mithun Patil | International Journal of Computer Science and Network Security | 2019 | 1 | N K Orchid College of Engineering and Technology, Solapur | 1 |
| Efficient Implementation of Complex Matrix Inversion for LMMSE Decoder | Dr V S Shirwal | International Journal of Computer Applications (IJCA) | 2019 | 1 | N K Orchid College of Engineering and Technology, Solapur | 1 |
| Development and calibration of modified Parallel plate method for measurement of thermal conductivity | Dr Sonage B K | International Research Journal of Engineering, Management Technology | 2019 | 4 | N K Orchid College of Engineering and Technology, Solapur | 1 |

| | | | | | | |
|---|-------------------|---|------|---|---|---|
| of liquids A review | | | | | | |
| Urban Water Distribution Network Failure Prediction Using Artificial Intelligence | Dr S S Metan | International Journal of Recent Technology and Engineering | 2019 | 4 | N K Orchid College of Engineering and Technology, Solapur | 1 |
| Development of water quality index for Godavari River (India) based on fuzzy inference system " Groundwater and Sustainable Development | Dr Patki V K | Groundwater and Sustainable Development | 2019 | 4 | N K Orchid College of Engineering and Technology, Solapur | 1 |
| Evaluation of Physical and Chemical Properties of OPC and PPC Cement | Dr Jahagirdar S S | International Journal of Recent Technology and Engineering (IJRTE), Vol-8, issue 9S11, 840-845N | 2019 | 5 | N K Orchid College of Engineering and Technology, Solapur | 1 |
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|--|-------------------|--|---------------------|---------|---|---|
| Evaluation of Physical and Chemical Properties of OPC and PPC Cement | Dr Jahagirdar S S | International Journal of Recent Technology and Engineering (IJRTE), Vol-8, | 2019 | 5 | 1 | N K Orchid College of Engineering and Technology, Solapur |

| | | | | | | |
|--|------------------|--|------|---|---|---|
| | | issue 9S11, 840-845N | | | | |
| Developm ent of water quality index for Godavari River (India) based on fuzzy inference system " G roundwater and Sustai nable Deve lopment | Dr Patki V K | Groundwa ter and Su stainable Developmen t | 2019 | 4 | 1 | N K Orchid College of Engineerin g and Tech nology, Solapur |
| Developm ent and ca libration of modified Parallel plate method for measuremen t of thermal co nductivity of liquids A review | Dr B K Sonage | Internat ional Research Journal of Engineerin g, Management Technology | 2019 | 4 | 1 | N K Orchid College of Engineerin g and Tech nology, Solapur |
| Urban Water Dist ribution Network Failure Prediction Using Artificial Intelligen ce | Dr METan S S | Urban Water Dist ribution Network Failure Prediction Using Artificial Intelligen ce | 2019 | 4 | 1 | N K Orchid College of Engineerin g and Tech nology, Solapur |
| View File | | | | | | |

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

| Number of Faculty | International | National | State | Local |
|---------------------------------|---------------|----------|-------|-------|
| Attended/Semi nars/Workshops | 10 | 485 | Nill | 18 |
| Presented papers | Nill | Nill | Nill | Nill |
| Resource persons | Nill | Nill | Nill | 50 |

[View File](#)

3.4 – Extension Activities

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

| Title of the activities | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|--|--|--|--|
| Workshop on Structural Audit | ISSE- NKO CET Solapur Local Chapter | 14 | 40 |
| Seminar on Metro Rails | ISSE- NKO CET Solapur Local Chapter | 6 | 60 |
| STAD PRO course for practicing civil engineers | ISSE- NKO CET Solapur Local Chapter | 4 | 10 |
| Blood Donation Camp | A blood donation camp was organized on the occasion of "Engineers Day". Civil hospital, Damani, Ashwini Hospital and Hedgewar | 4 | 25 |
| JalShakti | NHI- Solapur Yedshi Highway Pvt.Ltd near Hipparga village on 25th September 2019 | 4 | 33 |
| Swachta With NHI | Late Shri.SardarV allabhbhai Patel as Rashtriya Ekta Divas, | 4 | 30 |
| Oath Taking-I will Vote | NSS volunteers conducted cleaning campaign in association | 4 | 50 |
| Oath Taking Ceremony I will Vote | Rashtriya Ekta Divas, college had arranged a pledge taking ceremony in college campus | 4 | 50 |
| Tree Plantation | NSS team, students, faculty members and staff participated in the event of "Tree plantation" which was organized on the occasion of Independence Day | 4 | 30 |
| Rashtrya Ekata Divas Pledge | On the occasion of Observation of Swachhta | 4 | 45 |

[View File](#)

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
|--|---|-------------------------------------|------------------------------|
| AICTE- CII Best Industry Institute Award | Platinum Band | AICTE-CII | 400 |
| Best Teacher | Shikshak Ratna | Kasaba Peth Ganapati Mandal Solapur | 120 |
| Praytna Research | The Development of Two Seater Solar Car | Tata Technologies Pune | 25 |
| Best Project | Design and Development of Cloth Duster for Cloth Industries | NKOCET Solapur | 10 |
| National Level Autodesk Social Impact Challenge | 1st Prize | Auto desk | 50 |
| Supra SAE India Student Formula Race Car Competition | 45th position | SAE India | 50 |
| Intern for Autodesk Catalyst | Platinum Member | Auto desk | 50 |

[View File](#)

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

| Name of the scheme | Organising unit/Agency/collaborating agency | Name of the activity | Number of teachers participated in such activities | Number of students participated in such activities |
|---|---|---|--|--|
| Technical Event- Analysis and Design of Steel Truss Competition | DIEMS, Aurangabad ISSE, Aurangabad | Technical Event- Analysis and Design of Steel Truss Competition | 1 | 3 |
| Auto CAD War | AGTECH, FEST AGPIT, Solapur | Auto CAD War | 1 | 1 |
| TechDraw Event | DISTA- 20, NBNSCOE, Solapur | TechDraw Event | 1 | 1 |
| Power Presentation | AGTECH, FEST AGPIT, Solapur | Power Presentation | 1 | 1 |
| Model Making | AGTECH, FEST AGPIT, Solapur | Model Making | 1 | 1 |
| Technical | DISTA- 20, | Technical | 1 | 1 |

| | | | | |
|---------------------------|-------------------------------------|------------------------|---|---|
| Quiz | NBNSCOE, Solapur | Quiz | | |
| Poster Presentation | Kshitij2k20, SVERI Pandharpur | Poster Presentation | 1 | 1 |
| View File | | | | |

3.5 – Collaborations

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

| Nature of activity | Participant | Source of financial support | Duration |
|--------------------|-------------|-----------------------------|----------|
| NIL | Nil | Nil | Nil |
| No file uploaded. | | | |

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

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|---------------------------------|------------------------------------|---|---------------|-------------|-------------|
| Institute Linkage | Margadarshak scheme | WCE, Sangli | 01/07/2019 | 30/06/2020 | 500 |
| research lab | pms robotics reserch lab | PMS robotics | 01/07/2019 | 30/06/2020 | 65 |
| Industrial Internship | Central railway workshop Solapur | Central railway workshop Solapur | 01/07/2019 | 30/06/2020 | 25 |
| Industrial Internship | Precise engineers Solapur | Precise engineers Solapur | 01/07/2019 | 30/06/2020 | 10 |
| Industrial Internship | Prasad industries, Kolhapur | Prasad industries, Kolhapur | 01/07/2019 | 30/06/2020 | 10 |
| Faculty Training | Tata Technologies Pune | Tata Technologies Pune | 01/07/2019 | 30/06/2020 | 10 |
| Faculty Training | La Fondation Dassault Systems Pune | La Fondation Dassault Systems Pune | 01/07/2019 | 30/06/2020 | 10 |
| Faculty Training | Autodesk | Autodesk | 01/07/2019 | 30/06/2020 | 10 |
| Industrial Internship/t raining | Zensar ESD Program | Zensar Technologies Pune. Aradhana Prabhu | 01/07/2019 | 30/06/2020 | 75 |

| | | | | | |
|--------------------------------|---------------------------|---------------------------|------------|------------|----|
| Industrial Internship/training | Persistent System Limited | Persistent System Limited | 10/07/2019 | 30/06/2020 | 50 |
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|---|--------------------|--|---|
| La Fondation Dassault system | Nil | Solar lab, Solar ready engineer Course ,Intenship, Product development | 500 |
| PMS | 21/01/2020 | To set centre of excellence of robotics and AI | 65 |
| Tata Technologies Pune | 12/01/2019 | Ready Engineer Course | 80 |
| Thermax Ltd Pune | 14/08/2019 | Internship ,industrial visit, Expert lecture | 25 |
| Tata Technologies Pune | 14/01/2020 | Two seater Solar car | 25 |
| Tata Technologies Pune | 14/01/2019 | SAE Supra Vehicle Development | 25 |
| Zensar Technologies NKO CET, Solapur | 10/10/2019 | Training ,Internship | 80 |
| ESDS | 24/07/2019 | Training ,Internship | 80 |
| Eywa Solutions, Solapur | 01/07/2019 | Training ,Internship | 80 |
| COMPUTER HELP Structural Engineer Software Developers | 02/07/2019 | Training ,Internship | 50 |
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

| | |
|--|--|
| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
| 244.46 | 63.93 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|---------------|-------------------------|
| Campus Area | Existing |
| Class rooms | Existing |
| Seminar Halls | Newly Added |

| | |
|--|-------------|
| Laboratories | Newly Added |
| Classrooms with LCD facilities | Existing |
| Seminar halls with ICT facilities | Existing |
| Video Centre | Newly Added |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| Others | Existing |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Classrooms with Wi-Fi OR LAN | Newly Added |
| No file uploaded. | |

4.2 – Library as a Learning Resource

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

| Name of the ILMS software | Nature of automation (fully or patially) | Version | Year of automation |
|---------------------------|--|---------|--------------------|
| E-Granthalaya | Partially | 3.0 | 2018 |

4.2.2 – Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|---------------------------|----------|------|-------------|------|-------|------|
| | | | | | | |
| Text Books | 4956 | 4956 | 1556 | 1556 | 6512 | 6512 |
| Reference Books | 1445 | 1445 | 23 | 23 | 1468 | 1468 |
| e-Books | 1636 | 1636 | 18 | 18 | 1654 | 1654 |
| Journals | 82 | 82 | Nill | Nill | 82 | 82 |
| e-Journals | 8362 | 8362 | Nill | Nill | 8362 | 8362 |
| Digital Database | 1 | 1 | Nill | Nill | 1 | 1 |
| CD & Video | 2303 | 2303 | 12 | 12 | 2315 | 2315 |
| Library Automation | 1 | 1 | Nill | Nill | 1 | 1 |
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

| Name of the Teacher | Name of the Module | Platform on which module is developed | Date of launching e-content |
|----------------------|--------------------|---|-----------------------------|
| Prof. Roshan Pushpan | CNCC | E-content is launched in Ginomo moodle (roshanpushpan.gnomio.com) | 10/04/2020 |

[View File](#)

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/GBPS) | Others |
|----------|-----------------|--------------|----------|------------------|------------------|--------|-------------|---------------------------------|--------|
| Existing | 684 | 20 | 100 | 6 | 1 | 1 | 5 | 100 | 0 |
| Added | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 10 | 0 |
| Total | 684 | 20 | 110 | 6 | 1 | 1 | 5 | 110 | 0 |

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility |
|---|---|
| Lecture Capturing and Broadcasting Facility | https://www.youtube.com/watch?v=cEcthbRhwgo&t=9s |
| Recording Facility | https://www.orchidengg.ac.in/econtentdevelopment/ |

4.4 – Maintenance of Campus Infrastructure

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

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
|--|--|--|--|
| 44.8 | 42.11 | 26.13 | 49.48 |

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)

PROCEDURES FOR MAINTAINING AND UTILIZING LABORATORY:

- A teaching faculty is assigned duty of lab in-charge who maintains dead stock entries, get those entries verified from head of department.
- Every lab is maintained by a lab assistant and monitored by lab in charge. Lab assistant check equipment in lab at regular time interval and generate reports about condition of the equipment in lab. The same report is submitted to lab in-charge of lab.
- For temporary transfer of any equipment, application need to be provided to the lab in-charge, who record transfer note in transfer register. When equipment is returned, remark will be made by lab in charge and lab assistant.
- If any equipment fails, lab in-charge add requirement in new requirements list, requirement list which is validated by concerned HOD, Store Keeper and system admin in case of computers and peripherals.
- New requirements are collected by HOD from lab in-charges and after approval from the Principal, quotations are called from the vendors and comparative statement is prepared. The vendor who has quoted lowest price along with quality is preferred for procurement of the material.

PROCEDURES FOR MAINTAINING LIBRARY:

- Each department has one faculty

working as a library coordinator. • Library coordinator circulates sheet to all faculty members regarding new book requirements. This requirement is collected two months before start of new semester. • For each subject, list of textbooks, reference books, required copies for current strength of students and remark is specified in sheet. • Departmental coordinator forwards all book requirements to librarian. • Librarian verifies existing stock of books and new requirement and adjusts required copies accordingly. • After all requirements are finalized, quotations are invited from publishers. • Librarian sends purchase order to the vendor after approval from Principal. PROCEDURE FOR CIVIL INFRASTRUCTURE MAINTAINANCE: Housekeeping and Gardening • Cleanliness is unique characteristic of the institute and it is maintained with the help of separately recruited housekeeping staff. • Each housekeeping staff cleans his assigned area thrice a day. • Three gardeners are recruited to take care of the garden/lawn in the campus. Other Maintenance: • Estate Manager is appointed to take care of routine maintenance of infrastructure and furniture in lab. • In case of any maintenance related issue Lab Incharge/HOD forward application to estate manager. After verifying complaint and identifying necessary action for repair/replacement, he gets the task completed. Classroom furniture • Each classroom is equipped with projector and one desktop machine to facilitate use of modern teaching aids for faculty members. • For any additional requirement in furniture (benches, table, chair), feedback is collected once in semester by HOD from students. • As per feedback, requirements about extra furniture, hardware components are proposed by HOD.

<https://www.orchidengg.ac.in/wp-content/uploads/2021/08/REPAIR-AND-MAINTENANCE-21.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

| | Name/Title of the scheme | Number of students | Amount in Rupees |
|--------------------------------------|--|--------------------|------------------|
| Financial Support from institution | Fees concession to wards of employees Prizes to meritorious students | 1265 | 4267777 |
| Financial Support from Other Sources | | | |
| a) National | Government of India Scholarship and Govt of Maharashtra | 1677 | 102998360.5 |
| b) International | Nil | Nil | Nil |
| View File | | | |

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

| Name of the capability enhancement scheme | Date of implementation | Number of students enrolled | Agencies involved |
|---|------------------------|-----------------------------|--|
| Soft skill Development | 01/07/2019 | 921 | NKOCET, Solapur Zensar Technologies Pune (ESD) |
| Remedial Coaching | 25/02/2020 | 216 | NKOCET, Solapur |
| Language Lab | 01/07/2019 | 255 | NKOCET, Solapur ENTL Kochi |

| | | | |
|---------------------------|------------|------|---------------------------------------|
| Bridge Courses | 01/07/2019 | 1237 | NKOCET, Solapur Different Agencies |
| View File | | | |

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

| Year | Name of the scheme | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passed in the comp. exam | Number of students placed |
|------|----------------------------|--|--|--|---------------------------|
| 2020 | GATE | 10 | Nil | 10 | Nil |
| 2020 | GRE | 3 | Nil | 3 | Nil |
| 2020 | TOEFL | 13 | Nil | 13 | Nil |
| 2020 | On Campus Placement Drive | 5 | 417 | 5 | 417 |
| 2020 | Off Campus Placement Drive | 5 | 32 | 5 | 32 |

[View File](#)

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

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---------------------------|--------------------------------|---|
| Nil | Nil | Nil |

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

| On campus | | | Off campus | | |
|-------------------------------|---------------------------------|---------------------------|-------------------------------|---------------------------------|---------------------------|
| Name of organizations visited | Number of students participated | Number of students placed | Name of organizations visited | Number of students participated | Number of students placed |
| 45 | 448 | 417 | 21 | 241 | 32 |

[View File](#)

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

| Year | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined | Name of programme admitted to |
|------|--|--------------------------|---------------------------|----------------------------|-------------------------------|
| 2020 | 36 | NKOCET Solapur | NKOCET Solapur | List Attached | List Attached |

[View File](#)

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

| Items | Number of students selected/ qualifying |
|-------|---|
|-------|---|

| | |
|---------------------------|----|
| GATE | 10 |
| GRE | 3 |
| TOFEL | 13 |
| Civil Services | 5 |
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity | Level | Number of Participants |
|--------------------------------|-----------|------------------------|
| Cultural And Sports Activities | Institute | 1976 |
| View File | | |

5.3 – Student Participation and Activities

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

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|-------------------|-------------------------|------------------------|-----------------------------|-------------------------------|-------------------|---------------------|
| 2020 | NO | National | Null | Null | Null | NIL |
| No file uploaded. | | | | | | |

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

The student council is the apex body of students which is formed under the guidelines of the university. Amongst the nominated student council members, one of them is selected as General Secretary. The students' council also comprises of Cultural Secretary, Sports Secretary and NSS Secretary, all Class Representatives, and two ladies representatives. Students can put their problems and suggestions in front of the administration through the student council meetings. Minimum three meetings are conducted in a year. The principal is the chairman of the Student Council. The student council is the representative body of the students. It helps to improve communication between the Student Body, Faculty, Administration, and Parents. The goal of the student council is to provide a common objective to make students participate in the development of the institute as well as to provide a platform to students for co-curricular and extra-curricular activities. It is responsible for all the major technical, cultural, NSS and Sports, activities organized in the institute. In addition to the active student council individual departmental student association such as Mechanical Engineering students association (MESA), Civil Engineering Students Association (CESA), Association of Electronics Telecommunication Engineering Students (AXES), Ambitious canal of Electrical Eggs. (ACEE), Computer Science and Engineering Students Association (CSESA) is also formed for the co-curricular and extracurricular development of students. All departmental activities of the students and annual festivals like Teachers' day Engineers' Day, social activities, motivational lectures, sports activities, Project and Technical Quiz competition, etc arranged by these associations. Activities of the association are supported by a team of faculty members. Students association plays a vital role in developing leadership skills and responsibility in the students. Student associations organize a wide variety of social, career-related guidance sessions, Expert sessions by industry resource persons, industrial visits, etc. throughout the year to benefit the engineering graduate student community.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The contribution from the alumni association by financial and non financial means, play a key role in the development of an institute. Voluntary contributions from alumni association enhances and builds a strong relationship between the students, staff, institute and association. The below mentioned are the crucial contributions practiced by the alumni to their alma matter. 1. Role Model: The Institute conducts an annual alumni meets during which the alumni interact with faculty and explore their ideas and experiences in different areas. The experiences shared by the alumni related to maintenance of discipline in college and its benefits while working, benefits of attending soft skill lectures, benefits of co-curricular courses like CATIA, STADD-Pro etc. underlines the importance of the best practices of the Institute. Apart from this alumni also share their failure stories in their academics, interviews and competitive exams and how to overcome the failures. Such feedback from the alumni act as an input in enhancing and strengthening self-confidence, technical skills, communication skill and social skill of the students. 2. Career Mentor: The Institute is in regular contact with the alumni and invites them for guiding and supporting the students for different career opportunities available in the various fields of engineering. Apart from this alumni also act as a resource meeting the different needs of students. The mentorship of alumni helps the students for getting industrial training opportunities, Sponsored projects, Placement assistance, etc. 3. Providing Expertise: Alumni contribute by providing their expertise in developing new study programs in the Institute. Alumni contribute as a guest lecturer, advisor in committees, industry experts and cooperative partners in projects with the institute. The alumni working in industries at different positions visit the institute and guide the students about how to prepare for interviews and expectations of the industry. Study Abroad Cell (SAC) have arranged Expert lectures by alumni who got admission for post graduation abroad in different universities. Alumni who are pursuing their M.S. guide and support the graduate students about how to get admission in foreign universities, scholarship, etc. 4. Opportunity to Access Professional Development The senior alumni who are successful are most effective medium not just for the Institute graduates but also for the younger alumni. To access the professional developmental help from the alumni association, each department of the institute has its own mentor and mentee system. Through WhatsApp groups, students are able to interact with alumni and seek guidance for their academic projects, industrial training, etc. The institute is benefited with signing of MOU with different industries through Alumni. e.g. Sourabh Flexi Pack Pvt. Ltd., Pune, etc. 5. Alumni Funding Alumni who have achieved financial stability are able to reduce the financial burden of underprivileged students in institute, by providing the technical books, Career guidance book, journals etc. to department library.

5.4.2 – No. of enrolled Alumni:

292

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

146000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Meet arranged on 25th January 2020 at NKOCET. 156 Alumna Attended the meet.

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)

As a case study of decentralization and participative management Role Holders' Committee and Training and placement cell is briefed below. Role Holders' Committee: This committee consists of all the Heads of departments, Deans and three coordinators viz. Coordinator (NAAC and NBA), Coordinator (IT) and Coordinator (e-Learning and e-Resources). The committee meetings are arranged invariably every Tuesday at 03:00 pm. (During pandemic it was conducted online through MS-Team). Being most important committee in the ladder of decentralization, it plans, implements and reviews all the activities and decisions related with budget, academic, co-curricular and extra-curricular initiatives. Strong follow up of the decisions taken in the role holder's meeting from the stakeholders has lead our institute top performing on all fronts such as Academic, Curricular, Training and Placement and Extracurricular. Training and Placement Cell : A separate training and placement cell is established which is headed by Dean(Training and Placement). The cell consists of Dean(TP), soft skill trainers, aptitude trainer and one coordinator from each department. The cell has been given full responsibility and authority to take decisions to improve the placements of the institute. Dean (TP) conducts weekly meetings to take the review of the companies going to visit the campus, ongoing TP activities, preparations of the students etc. The TP cell acts as an interface between institute and companies and maintain purposeful relationship with industries across the country. Due to the decentralization in decision making and participative attitude of the various stakeholders, training and placement cell has built up an impressive placement record both in quantity and quality.

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

Partial

6.2 – Strategy Development and Deployment

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

| Strategy Type | Details |
|--------------------------------------|---|
| Admission of Students | The central admission process is conducted by the directorate of technical education. Based on the allotment of seats students are reporting to the institute. The Admission Committee of our College, comprising our Principal and senior faculty members as well as a few senior non-teaching staff members work tirelessly to ensure fair and hassle-free admission of students. To enhance admission the Institute is planning to apply for the new course in emerging branches Artificial Intelligence and Data Science, Robotics etc. |
| Industry Interaction / Collaboration | Industry-Academia interaction and MoUs with corporate sectors and research institutions have ensured that students obtain best possible exposure to multiple learning experiences. Industry representatives are included |

in the administrative bodies such as DAB(Departmental Advisory Board), Academic Council and BOSSs of every department. Every department mandatorily holds ONE DAB meeting every academic year and meetings are convened whenever needed. The College gets information on the current trends and requirements through the feedback from employers and alumni/ae so that skilled manpower suited to both academia and industry are generated. Different faculties of the College organize seminars, workshops and conferences inviting resource persons from prominent institutions and Industries. The exposure received in various new fields enables the staff and the students to develop skills. Industrial visits organized by the departments give exposure to both the staff and the students with regard to the requirements of the industry. Project work in collaboration with industry conducted by students help them acquire practical knowledge and enhance their knowledge through interaction with industrialists. Their feedback also helps to find gaps in the syllabus. MoUs signed with different Industries promote growth of the institute.

Human Resource Management

The Institute has applied a Performance Appraisal system for proper Human Resource Management. Measurable targets are identified and set by employees by taking review of last three years performance. Employees act according to it and their performance against the targets will be used as part of the appraisal. Each and every employee has to submit performance appraisal forms and concerned HODs should review the submitted forms before submitting to the Principal.

Library, ICT and Physical Infrastructure / Instrumentation

Library : The institution has one of the best library facilities provided to the faculty members, staff and students. To have added more and more e-learning resources for the benefit of the faculty members and students. Library is presently using eGranthalaya Lib software for its internal working. It is updated timely. Also the OPAC system is used to utilize the library resources effectively. Similarly new e-learning resources like journals, databases etc. are identified and

subscribed taking into account the recommendations of the library committee and various stakeholders. Appropriate training to the staff and the students for using the e-learning resources is provided through an orientation program conducted by the librarian in the faculty meeting. ICT : The college has provided its students with free high speed internet and Wi-Fi facilities. The presence of ICT has facilitated teaching-learning and seamless content delivery in classrooms. The college has many smart classrooms, one recording room. Each dept has one ICT - enabled seminar hall as well.

Research and Development

In order to strengthen and expand the research activities in the institute, our Institute has applied to DBATU,Loere to get recognition as a Research center for existing engineering branches. The institute always believes that the quality of academic research not only may be reflected in the quality of classroom teaching, but also may be helpful in addressing problems in the world at large. Accordingly, the college encourages faculty members to present and publish research papers and attend conferences. Teachers are motivated to complete Ph.Ds by offering sponsorship for Ph.D at reputed institutes. The college also provides teachers with assistance to organise seminars and conferences. It also facilitated Faculty Exchange Programmes.

Examination and Evaluation

Being affiliated to DBATU, Lonere, our Institute follows the policies and procedure of the university in exam conduction and evaluation. The various internal examinations conducted at institute level are Continuous Assessment-I, Mid Semester Examination, Continuous Assessment-II. An internal examination co-ordinator at each department ensures the smooth facilitation of examination under the guidance of the head of department . The examination is either MCQ based or Descriptive to enhance student's knowledge. The question papers are set according to the Bloom's Taxonomy and evaluated to assess student knowledge grasping.

Teaching and Learning

Despite pandemic and lockdown, we at

Orchid continued our teaching learning process with new Orchid online education model. All the activities which we were conducting offline, were conducted online except sports. The features of the model are all theory lectures were engaged using the online platforms, the practical sessions were conducted online and Virtual Labs were used. We have conducted online webinars, workshops, alumni meet various students activities. Final year projects is key differentiator for the students when they appear for any placements drives. Hence final projects are taken very seriously in the institute. Many of our final year projects are sponsored by industry and industry mentors are also guiding the students. Weekly review of the projects were taken by the respective guides. We have organized final online presentations of the projects in front of Principal, HOD industry mentors to show case the work completed by students.

Curriculum Development

As we are affiliated institute to an university, we can not develop curriculum for our institute. However, we are sending our recommendations to BOS of university.

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

| E-governance area | Details |
|--------------------------|---|
| Examination | The Institution is affiliated to state technological university DBATU, Lonere. The whole examination system is based on ERP to automate the entire process of examination system i.e. filling of examination forms, revaluation forms, photocopy forms, obtaining hall tickets, receiving of examination papers, uploading of marks, etc. everything has to be done in an online manner. |
| Planning and Development | The management of the institute is continuously taking the review of the activities ongoing and planned in future through video conferencing systems and online meetings. Principal conducts the online meeting of faculty members for planning and taking the reviews weekly. The website of the college is designed taking into account the needs of all the stakeholders. The website acts as an interface between the institute and its stakeholders. |

Website of the college includes vision and mission, information about all programmes offered, facilities provided, activities, important notices etc which is made easily available to the outsiders. For this purpose, a separate website coordinator is looking after the day to day updations. A Website Maintenance Committee is formed for this purpose. Along with it, training has been given to the existing department staff to undertake the responsibility of minor website updations at the department level. The internal communication between the faculty and staff is facilitated with institutional email IDs. Different whatsapp groups are also formed for quick communication amongst various stakeholders.

Administration

The governing body meetings are conducted online using the online platforms. The faculty meetings, students, alumni, parent meetings are conducted online. The Institute is using Google facilities like Google sheet :- For data collection from Various Departments. Google Forms :- To prepare Feedback forms and get feedback from Students, Parents. Google Drives :- To keep all department wise proofs. The college has Biometric attendance for teaching and non-teaching staff. The few departments in college campus are equipped with CCTV Cameras installed at various places of need. The internal communication between the faculty and staff is facilitated with institutional email IDs. WhatsApp Group helps to provide the brief notices of any event to happen in college. WhatsApp Groups are also used for awareness and for smooth functioning of the same.

Finance and Accounts

The Institute is using Customised Tally for financial work . All records are prepared with the help of Tally software. All the fees and receivables are accepted through digital payments only. The salary calculations are done using the software PayWise. All calculations related to salaries such as TDS, 16 A form generation, EPF deductions etc. are done using the above software.

Student Admission and Support

Students are allowed to fill admission forms online and fees

collected either with the help of Challan or Card payment. The office staff assess the data filled by students and accordingly update the students state. The office staff provides student support like issuing Transfer Certificate, Bonafide certificates and other requirements if any.

6.3 – Faculty Empowerment Strategies

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

| Year | Name of Teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|------|---|--|--|-------------------|
| 2019 | Dr.S.S.Metan Prof P.N.Kulkarni Two day workshop on Product Re-engineering 6.5.19 7.5.19 | Two day workshop on Product Re-engineering 6.5.19 7.5.19 | Nil | 4470 |

[View File](#)

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

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
|------|--|---|------------|---------|---|---|
| 2019 | Python workshop for Teachers IIT Bombay | Nil | 22/06/2019 | Nil | 13 | Nil |

[View File](#)

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

| Title of the professional development programme | Number of teachers who attended | From Date | To date | Duration |
|---|---------------------------------|------------|---------|----------|
| One day Workshop on R organized by IIT Bombay | 17 | 11/09/2019 | Nil | 1 |

[View File](#)

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

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 116 | 116 | 87 | Nil |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|--|--|
| <p>Fee waiver scheme for the wards of employees: 50 fee waiver is given to children of faculty staff members who take admission in our institute. • Special Allowance is given to role holders for recognizing their additional efforts. For Deans Rs. 5,000/ per month, For HODs Rs. 5,000/ per month and for departmental T P Coordinators Rs.1,500/ per month is given as special allowance. • Financial assistance is provided to faculty members for getting patents. • Incentive for Research Publications: Institute offers research incentives for publications of research articles in national international journals and conferences. This scheme is introduced in the institute to promote quality research and motivate faculty members to write research articles. Incentive for paper publication in National and international peer reviewed Journals is Rs. 2,500/ • Personal Accident Insurance (Group Insurance Scheme) • Provision for EPF is made for regular employees.164 faculty and staff are availing this scheme • Gratuity Scheme</p> | <p>• Fee waiver scheme for the wards of employees: 50 fee waiver is given to children of faculty staff members who take admission in our institute. • Personal Accident Insurance (Group Insurance Scheme) • Uniform to Class - IV Staff: Institute provides Two sets of uniform with supporting accessories every year to all ClassIV employees i.e. peons, housekeeping staff, security staff, gardening staff. • Provision for EPF is made for regular employees.164 faculty and staff are availing this scheme • Gratuity Scheme</p> | <p>Provision of all scholarship schemes of Central Govt. and state govt. • Installment in fees • Prizes for meritorious students and Project Exhibition participants • AICTE scheme for TFWS for meritorious students. Training and Placement Counselling Facility. Travelling Facility provided for GATE courses.</p> |

6.4 – Financial Management and Resource Mobilization

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

Our institute regularly follows internal and external Audit system. Institute adopting the mercantile accounting system. The internal audit continuously done every week by Mr. S. G. Ingale and Associates, firm Chartered Accountant, Solapur and the statutory audit done quarterly by Mr. K. K. Bhagwat and Associates, Pune. • Our institute follows the guidelines and directives of the Internal and statutory Auditor time to time. • Any queries raised during audit, rectifies immediately by us. • The suggestions of Auditor regarding accounting system and any amendments in Acts are being followed. • The Audit report Income and Expenditure Account get certified by our statutory auditor every year. • The Audit report is prepared as per the guidelines of Trust Act. and the Audit note is prepared by the Auditor along with the report every year. • Our Trust Pradnya Niketan Education Society files the Income Tax returns every year.

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

| Name of the non government funding agencies /individuals | Funds/ Grnats received in Rs. | Purpose |
|--|-------------------------------|---|
| Desualt System Foundation Tata Technology Ltd., | 3890000 | For Research Projects Solar Research Centre |
| View File | | |

6.4.3 – Total corpus fund generated

| |
|---|
| 0 |
|---|

6.5 – Internal Quality Assurance System

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

| Audit Type | External | | Internal | |
|----------------|----------|-------------------------------|----------|-------------------------------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | Expert from reputed Institute | Yes | Academic Monitoring Committee |
| Administrative | Yes | K K Bhagwat Company | Yes | M/S Nishant R Patil Company |

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

1.Parent -PTA is in place which acts as interface between teachers and their wards. Teacher Association played a major role during Pandemic from March 2020 to May 2020 in creating awareness of online lecture. 2.Motivating Students for Placement and improving quantity and quality of placements. 3.Meeting was conducted for overall Improvement In the academics of students.

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

1. SWAYM NPTEL Communication Skill course was done for all support staff (including Office Academics). 2. TATA Microsoft Excel training for all office staff 3.TCS- Career Edge Knockdown the Lockdown

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

1.Application for the research center of DBATU. 2.To increase Admission, Planning to start a new course in the Emerging area. 3. Rigorous training for mass recruitment drives like TCS, Infosys, Wipro, etc. 4. Additional courses offered through Major/Minor degrees

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
|-------------------|---|-------------------------|---------------|-------------|------------------------|
| 2020 | Arrangement of skill development courses | 04/09/2020 | 04/09/2020 | 31/12/2020 | 1978 |
| 2020 | conduction of Programme Exit Survey | 04/09/2020 | 04/09/2020 | 31/12/2020 | 1978 |
| 2020 | Inclusion of B.Tech Honors | 02/05/2020 | 02/05/2020 | 31/12/2020 | 1978 |
| 2020 | Additional lectures and practicals particularly for DBATU classes | 03/01/2020 | 03/01/2020 | 31/12/2020 | 1978 |
| 2019 | Formation of Department Advisory Committee | 08/07/2019 | 08/07/2019 | 31/12/2019 | 1978 |
| 2019 | Inclusion of NPTEL Courses | 08/07/2019 | 08/07/2019 | 31/12/2019 | 1978 |
| No file uploaded. | | | | | |

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

| Title of the programme | Period from | Period To | Number of Participants | |
|----------------------------|-------------|------------|------------------------|------|
| | | | Female | Male |
| Health Awareness Programme | 08/03/2020 | 08/03/2020 | 300 | Nil |

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

| |
|---|
| Percentage of power requirement of the University met by the renewable energy sources |
| Environmental Consciousness and Sustainability a) Solid Waste Management: Bio |

degradable solid waste is collected from college campus on daily basis then dumped in pits, which are then covered with locally available soil in alternate layers, till pit is completely filled. When one pit is filled completely then second pit is used for dumping. After 45 to 60 days good quality compost is obtained which is used as manure for the trees in the campus. Apart from this old newspaper, waste papers and cartons are sold to the local vendor. b) Liquid Waste Management: i. A constructed wetland is provided to treat the liquid effluent of the campus. A trench of about 100 m length, 1 m width and 1 m depth is provided for liquid waste treatment. Alternate layers of gravel and sand are provided and liquid is made to pass through these layers using vertical baffling system. This filtered liquid is used for watering plants in the campus. ii. The waste water from RO Water Filtering plant collected in two underground tanks of each 10000 liters capacity is used for watering trees plants in the campus. c) E-waste management: E-waste is not dumped in the Institute campus for example Old batteries of UPS are disposed by buyback while purchasing new batteries. Rain Water Harvesting: The Institute is environmental conscious and works towards the sustainability of environmental resources. Solapur city and its surrounding regions come under low rainfall zone. As there is an acute shortage of water in summer season it is important to utilize water in the most efficient way., Institute has designed a rain water harvesting system for one of the building. The rain water collected on the roof top of C' building is carried through a down take pipe which is collected in the collection tank. This tank is constructed underground by using Reinforced cement concrete to avoid leakages. Collected water is then utilized for watering the trees and lawns in the campus. The Institute is located in an area where very hard basalt stone strata is available at shallow depth. Due to this ground water recharge by rain water is practically not feasible. Alternate Energy Initiative:- Solapur has abundance of solar energy throughout the year. Institute has taken alternative energy initiative by installing 36kWp grid connected solar power plant. Solar PV system has total 120 solar panels of 300 Watt each. On an average about 50000 units are produced annually by the installed solar PV system. About 35 of required electrical energy of institute is generated by the institute itself using solar energy. The Power requirement met by renewable energy sources is 36 KW and the total power requirement is 80 KW. Solar energy is used as an alternate energy initiative in the campus. Renewable energy generated and used is 36 KW. Energy supplied to the grid is 4 KW.

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|--|--------|-------------------------|
| Physical facilities | No | 2 |
| Provision for lift | No | 2 |
| Ramp/Rails | Yes | 1 |
| Braille Software/facilities | No | 1 |
| Rest Rooms | Yes | 5 |
| Scribes for examination | Yes | 5 |
| Special skill development for differently abled students | No | 5 |
| Any other similar facility | No | 5 |

7.1.4 – Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
|------|--|--|------------|----------|---|--|--|
| 2019 | 4 | 1 | 01/09/2019 | 15 | Swachata Abhiyan | Awareness about environment, water conservation, use of plastic, | 120 |
| 2019 | 4 | 1 | 25/09/2019 | 1 | Cleaning Campaign in association with NHI Solaput Yedshi Highway Pvt. Ltd | Cleaning the areas nearby the Institute | 80 |
| 2019 | 4 | 1 | 15/08/2019 | 1 | Tree Plantation | Trees were planted in the campus by faculties and students | 150 |
| 2020 | 4 | 1 | 16/01/2020 | 15 | Swachata Pakhwada | Awareness about cleanliness | 85 |
| 2020 | 4 | 1 | 29/04/2020 | 2 | Online National Awareness Campaign Quiz | Awareness about Corona Virus | 1091 |

[View File](#)

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

| Title | Date of publication | Follow up(max 100 words) |
|------------------------------|---------------------|--|
| Code of conduct for Teachers | Nil | ? Appointments will be as per AICTE norms. ? Annual Increment will be based on performance and skill upgradation. ? Faculty have to abide by |

| | | |
|------------------------------|------|---|
| | | <p>the institute rules for taking leave. ? An employee who wants to resign should follow the prescribed procedure. ? Every employee is expected to follow the attendance protocol. ? Faculty member should not undertake any other job and/or external assignment, testing and consultancy activity without prior approval of the institute management. ? Grievances Redressal Cell is formed in the institute to resolve the complaints and disputes of the faculty members, students and parents.</p> |
| Code of conduct for Students | Nill | <ul style="list-style-type: none"> • Ragging is a punishable offence as per Maharashtra Prohibition of Ragging Act No. XXXIII of 1999. • Students should maintain at least 75 attendance and perform the academic tasks necessary for grant of the term. • Student should get his/ her leave sanctioned from concerned CC and / or HOD. • Mobile phone is strictly banned. • Hostel students to follow the regulations. • Students should follow the dress code of the institute • Smoking, Possessing, consuming, distributing, selling of alcohol in the Institute on the campus is banned. • Student should follow all the rules, acts and laws enforced by the Government of Maharashtra. |
| Core Values of the Institute | Nill | <p>CORE VALUES OF THE INSTITUTE The management, faculty and staff of the institute endeavor to:</p> <ul style="list-style-type: none"> • Provide education of quality that meets needs of local, national and global industries. • |

Provide students with knowledge that prepare them to be innovative • Foster an environment for faculty, staff, and students that stimulates excellence. • Work together for the common goal of the institute • Constantly strive for improvement through teamwork, responsibility, accountability, integrity, and trust. • Transform the society through education. • Serve for welfare of the people.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|--|---------------|-------------|------------------------|
| Vigilance Awareness Week (Integrity Pledge) | 28/10/2019 | 02/11/2019 | 1500 |
| Kargil Vijay Diwas | 26/07/2019 | 26/07/2019 | 1600 |
| "Bihu Dance" performance by Ranjit Kumar Gogoi and team under the aegis of SPIC MACAY- (Society for promotion of Indian Classical Music and Culture Among Youths) Bengaluru. | 06/09/2019 | 06/09/2019 | 2000 |
| Traditional Day and Cultural Day Celebration, Art Exhibition | 27/02/2020 | 28/02/2020 | 2000 |
| Online cultural program "E-Rainbow 2k20" | 14/06/2020 | 14/06/2020 | 2000 |
| students donated daily used materials to Adivasi Pardhi Vidyarthi Aashram and Pragati Mukbadhir School, Mulegao, Solapur on an auspicious occasion of "Chhatrapati Shivaji Maharaj | 19/02/2020 | 19/02/2020 | 500 |

| | | | |
|--|------------|------------|------|
| Jayanti" | | | |
| Chapati Day | 01/07/2019 | 30/11/2019 | 2000 |
| Vaachan Prerana Din on the eve of Dr. A. P. J. Abdul Kalams birthday | 13/10/2019 | 13/10/2019 | 2000 |
| Matrubhasha Diwas | 22/02/2020 | 22/02/2020 | 750 |
| View File | | | |

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

Green Practices I) Students, staff using a) Bicycles: College is about 5 km away from main city. Less than 5 of students use bicycle for coming to college. b) Public Transport: The Institute has outsourced bus facility. About 50 of the students use bus facility II) Green landscaping with trees and plants: Institute has developed 16 lawns spreading over area of 3229.82 sq. m. Different tree species are planted along the boundary of the entire campus. There are 1022 total no. of trees in the college campus. Students overwhelmingly participate in the clean and green campus activities. Tree plantation activities are conducted. This year various activities and competitions such as cleanest hostel room for boys and girls hostels, essay competition on innovative ways for spreading the message of hygiene are conducted to create awareness amongst the students. III) Less Paper Campus: The Institute is trying its level best to minimize use of paper in the campus. Information and Notices are passed on to the students and faculty members through E-mail and Whats app groups.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Title of the Practice Soft Skills 2. Objectives of the Practice Soft Skills is incorporated in curriculum as a supplementary course, which focuses on enhancing communication skills, employability skills and corporate etiquettes. The Soft Skills Program prepares the students for Campus Placement drives through regular practice of Verbal Ability, Group Discussions, Extempore Speech practice sessions, Resume building, Mock interview practice sessions, etc. Pre-Placement Workshop is conducted during vacations and Company Specific Training is provided before the Placement Drives. 3. The Context Indias IT and Engineering industry has recorded phenomenal growth over the past few decades. It is now home to a number of IT giants. The operations of IT firms have changed the entire scenario of the Indian job market. India being a prime workforce provider to such companies has catered the need of providing skilled Engineers. These companies have presence all over the world which accentuates the demand of proficient English Speaking Engineers having excellent communication skills. To produce Industry-Ready-Engineers is one of the objectives of the institute. The students being from vernacular background, face difficulty to deal with the global language practiced by the industry i.e. English. In order to overcome these challenges, the institute has designed well planned and organized Soft Skills Enhancement Program apart from their university curriculum. 4. The Practice • In order to mold the students as per the need of industry, the institute offers In-house soft skill training. The institute has appointed three qualified Soft Skills Trainers who train the students by implementing the structured Soft Skills Enhancement Program. • In order to inculcate in depth knowledge of the subject, the institute has planned a structured Soft Skills module for four years of Engineering by dedicating two hours of a week by making necessary changes in the time table and syllabus at institute level. • For final year engineering students, the institute is

providing training of 90 hours for soft skill training in the form of pre-placement workshop to increase placements of the students. • A Course Book on Soft Skills has been designed and developed by Soft Skills Training team. • Profiling of each student is done and respective feedback is shared with the students. • Regular Company Specific Training is arranged as far as Soft Skills are concerned which leads to better placements. 5. Evidence of Success Academic Year No. of Placements 2017-18 266 2018-19 341 2019-20 444 • We monitor student's performance from Third Year to Final Year and grade them in Excellent, Very Good, Good, Average and Poor category under "Profiling" of the students. • E.g. Mr.Sawanraj Arora (B.E. Mech) was in Good category in Third Year. He improved his Communication Skills through these sessions and in B.E. final year he was in excellent category. Mr.Sawanraj Arora got a job offer in BYJUs with highest package. • Anuradha Kale (BE CSE), was in poor category in Third Year. After the rigorous training she was in good category and got placed in WIPRO. 6. Problems Encountered and Resources Required • During the initial stages of execution of the program, the institute faced challenges due to lack of awareness among the students. However, once the conversions of prospective candidates to placed candidates have increased, the institute got good response to the program. The Orchid Soft Skills model has been followed by nearby institutes as it is giving good results. • It has been observed that the students show lack of seriousness as there is no university examination and it does not become the priority in second and third year. • The average students show inconsistency in attending the Soft Skills Sessions as there is no direct accountability. • During Soft Skills sessions like Group Discussion and Personal Interview practices the students were shy and unable to cope up with the tasks. However, with the use of modern technologies like Language Lab and Video mirroring students started motivating themselves and proactive participation is increased. • To increase awareness, students were made to enroll for courses relevant to Soft Skills and Communication Skills of TCS ION and Coursera. 7. Notes (Optional) This best practice of our institute has provided exceptional results to increase the placements of our college. This practice has not only for the students who are placed during campus drives but also it has built confidence for those who get jobs in off campus drives. Also we modify the Soft Skills Enhancement Program time to time with the guidance provided by the industry experts and HR managers which helps in enhancing students' personality. 1. Title of the Practice Efforts for Higher Education The Institute takes efforts to motivate students to pursue higher education. Students are provided guidance for GATE exams and for higher studies abroad. GATE exam not only helps the students to get admission for higher education in best of the institutes but also helps them to get job in Government Sector. Two best practices for higher studier are religiously performed in the institute: a) GATE classes b) Study Abroad Cell 2. Objectives of the Practice • To incline the students, towards pursuing higher studies either in our country or abroad. • To make the students aware, about vast opportunities available abroad for higher education. • To guide students to prepare for exams like GATE, GRE, TOFEL and IELTS that will qualify them for getting admission for higher education. 3. The Context Students spend almost a year to prepare and appear for GATE exam after completing their Graduation. Also they invest a good amount of money to join coaching classes at places like Hyderabad. Considering this scenario Institute has taken initiatives to provide coaching for GATE classes. Institute has efficient Faculty who can guide the students to qualify GATE exam. There is ample of scope for Higher Education in Universities Abroad, but students belonging to TIER II cities are hesitant even to think about going for higher studies abroad. In these lines Institute has started Study Abroad Cell to motivate and guide the students to pursue their higher education abroad. 4. The Practice 3.1 GATE • For GATE preparation students are counseled when they are in Second Year of Engineering. • For BE students special GATE classes are conducted in the month of December daily and online Mock tests are also

conducted. • NPTEL videos of GATE subjects are provided to the students for self study and also books are provided through book bank facility. • Previous year solved GATE papers and notes are uploaded on archives so that students can access them easily. 3.2 Study Abroad Cell • An induction is conducted on awareness of Study Abroad Cell in First Year of Engineering. Induction includes the importance to maintain Academic Criteria to get into higher education, selection of a particular domain, and other prerequisites that a student need to achieve till their Final Year of Engineering. • When students come in their Second Year, they are acquainted about the curriculum of GRE, TOFEL, IELTS and the vocabulary essential for these exams. • In their third year of Engineering course Institute arranges Alumni sessions for the students, Guest speakers, Felicitation of students who have qualified GATE exam or GRE, TOFEL and IELTS, counseling of the students, the books required for the same are provided to the students. • Students are taken on a Study Abroad Education Tours such as (EDWISE Pune, LinkedIn tour Mumbai) where they get a chance to connect with the representatives of different Universities. • It is their Final Year of Engineering that the students appear for the exams like GATE, GRE, TOFEL and IELTS. • Regarding higher studies abroad the Institute guides them for Application Process, helps them in selecting the university, guides for the Visa process also helps them in framing the Letter of Recommendation and Statement of Purpose and also guide them how to apply for Scholarship and get educational loan. 5. Evidence of Success The consistent efforts put by the Institute have resulted in the form of excellent results Practice Targets Benchmark Results GATE 2019 20 15 13 GRE, TOFEL, IELTS 10 7 6 Practice Targets Benchmark Results GATE 2020 20 15 10 GRE, TOFEL, IELTS 10 7 9 6. Problems Encountered and Resources Required • Time constraint was a problem for arranging GATE classes during semester as the academic sessions were hampered. So GATE classes were conducted during vacations or after college hours. • Resources required were teaching faculty members to conduct classes and study material for the exam. The major problem for Study Abroad Cell was that students in TIER II cities were not aware about GRE, TOFEL and IELTS. Also majority of students are from vernacular medium and are not fluent in English language which is a necessity for these exams. Resources required were a separate cell for Study Abroad and study material for GRE, TOFEL and IELTS. 7. Notes (Optional) These initiatives have resulted in good number of students qualifying GATE, GRE, TOFEL and IELTS and pursuing higher education.

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

<https://www.orchidengg.ac.in/igac/best-practices/>

7.3 – Institutional Distinctiveness

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

The Institute's Vision is "Locally Rooted, Globally Competent Education" Commensurate to its vision statement, Institute has prepared its mission and quality policies. As per NASSCOM survey, only 10 engineering graduates are employable in MNCs. The Institute has accepted this as a challenge and devised the system of Globally Competent education, with four dimensions: Dimension - 1. Acquiring Knowledge To impart real knowledge to students To strive for excellence in our teaching - learning process, encouraging creativity and critical thinking. Following initiatives are implemented:-- For concept clarity Videos and animations are used as effective tools while teaching. Subject wise archives containing Video lectures, Animations, previous Exam Question Papers, MCQs with answer keys and Notes are made available. To enhance learning ability of students NPTEL video lectures, Spoken Tutorial are provided. Institute has achieved excellent academic results since its inception. Dimension - 2. Soft

Skill Development The mission statement is Providing holistic education for the student's personality development • A novel concept of soft skill training is introduced for engineering students which comprises of 4 modules meant for personal and professional advancement of future engineers.(Details are provided in Best Practice No.1) • Aptitude Training:-To impart training on aptitude, weekly two hours have been included in time table. Dimension - 3.Strong Industry Connect • The mission statement is Pursuing Industry -Institute interaction • Third year engineering students from all branches undergo two weeks Industry training at various industries across the state. It is ensured that students undergo focused industrial training under faculty guidance. • Students are motivated to do their final year projects on the problems from industries or a project useful to society and having local relevance. • A students' project group is allocated to an Industry Expert who is their co-mentor. • It is mandatory for Faculties to undergo one month industrial training within two years of joining. • To provide better industrial training to the students and get project sponsorship, MoUs are signed with different Industries by each department. Dimension - 4.Co-curricular Courses To enhance additional technical skills required by industries, every department conducts two co-curricular courses for students. The end result of this globally competent education can be clearly seen through the placements of last few years. 2017-18 266 2018-19 341 2019-20 444

Provide the weblink of the institution

<https://www.orchidengg.ac.in/>

8.Future Plans of Actions for Next Academic Year

1) Developing a complete Online Education Model. 2) Internship Project in Industry for VIIIth Sem. Students. 3) NAAC Grade Improvement. 4) Encouraging Students for Minor Honors Degrees. 5) Applying for Phase-II of Solar Research Center.