YEARLY STATUS REPORT - 2020-2021

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 its own campus?	Yes
• Phone no./Alternate phone no.	9423084363
• Mobile no	9552529320
• Registered e-mail	basgondasonage@orchidengg.ac.in
• Alternate e-mail	office@orchidengg.ac.in
• Address	Gut No. 16, Solapur-Tuljapur Road, Tale Hipparga, Solapur-413002
• City/Town	Solapur
• State/UT	Maharashtra
• Pin Code	413002
2.Institutional status	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Rural

• Financial Status	**Self-financing**
• Name of the Affiliating University	**Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra**
• Name of the IQAC Coordinator	**Dr. B. K. Sonage**
• Phone No.	**09423084363**
• Alternate phone No.	**9552529228**
• Mobile	**9552529320**
• IQAC e-mail address	**basgondasonage@orchidengg.ac.in**
• Alternate Email address	**office@orchidengg.ac.in**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.orchidengg.ac.in/iqac/
4.Whether Academic Calendar prepared during the year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.orchidengg.ac.in/about-us/academic-calender/

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B+**	**2.73**	**2018**	**03/07/2018**	**02/07/2023**

6.Date of Establishment of IQAC	**17/07/2017**

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

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nagesh Karajagi Orchid College of Engg. & Tech., Solapur	MPCB, CSR	MPCB, La Foundation, TTL,	2019 365	13187000

8.Whether composition of IQAC as per latest NAAC guidelines	Yes	
• Upload latest notification of formation of IQAC	View File	
9.No. of IQAC meetings held during the year	3	
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	Yes	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
• If yes, mention the amount		

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

1. NPTEL courses of Jan.-May 2021. 2. National level Toycathon 3. Writing/ translating engineering books into Marathi- proposal from AICTE & DBATU 4. Action plan for forthcoming placement drives like Wipro, Infosys etc. 5. PPW for TY students. 6. Online teaching learning feedback. (Dean Academics & AMC to prepare the online system).

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

Plan of Action	Achievements/Outcomes
1) Action plan for placement drives like Wipro, Infosys etc. • Dean T&P is asked to present action plan for WIPRO and Infosys drive on 18/11/2020. • Soft skill teachers are asked to take some current topics for essays and to give to students. • Asked to plan 40 hours CSP which consists of Aptitude, Verbal ability an coding sessions by T&P dept. • Dean T&P carried out test schedule based on WIPRO pattern.	No. of students placed in WIPRO 19, Infosys- 24, TCS- 70, TIAA- 20, Accenture-18, Contingent- 14, Percistant- 9, Capgeminy-9, ATOS Globle-9.
2) National Level Toycathon • Prof. Piyush Kankal is asked to coordinate this activity. • Awareness is created among faculty members and students by giving presentation by coordinator. • Students are made aware about 68 problem statements. • Reviewed on idea submission was taken on 03/02/21 in weekly Rolehoders committee meeting.	One team shortlisted in first 10 teams of India.
3) AICTE CII Survey • It is decided to participate in this survey and Prof. Bakare is asked to coordinate this activity. • Mech., Civil & CSE to participate in this survey. • Data filling on the survey portal to be completed by 24th Aug. 2020.	Institute received Platinum Band. Mechanical Dept. reached to final round of survey.
13.Whether the AQAR was placed before statutory body?	No

- Name of the statutory body

Name	Date of meeting(s)
College Development Committee	Nil

14.Whether institutional data submitted to AISHE

Year	Date of Submission
AY 2020-21	05/02/2022

15.Multidisciplinary / interdisciplinary

16.Academic bank of credits (ABC):

17.Skill development:

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

20.Distance education/online education:

Extended Profile

1.Programme

1.1   **9**

Number of courses offered by the institution across all programs during the year

File Description	Documents
Data Template	[View File](#)

2.Student

2.1   **2020**

Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2   **1130**

Number of seats earmarked for reserved category as per GOI/ State
Govt. rule during the year

File Description	Documents
Data Template	View File

2.3   **660**

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1   **113**

Number of full time teachers during the year

File Description	Documents
Data Template	No File Uploaded

3.2   **113**

Number of sanctioned posts during the year

Extended Profile

1.Programme

| 1.1

Number of courses offered by the institution across all programs during the year | 9 |

File Description	Documents
Data Template	View File

2.Student

| 2.1

Number of students during the year | 2020 |

File Description	Documents
Institutional Data in Prescribed Format	View File

| 2.2

Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year | 1130 |

File Description	Documents
Data Template	View File

| 2.3

Number of outgoing/ final year students during the year | 660 |

File Description	Documents
Data Template	View File

3.Academic

| 3.1

Number of full time teachers during the year | 113 |

File Description	Documents
Data Template	No File Uploaded

02-08-2023 10:40:53

3.2 Number of sanctioned posts during the year	113

File Description	Documents
Data Template	View File

4.Institution

4.1 Total number of Classrooms and Seminar halls	59
4.2 Total expenditure excluding salary during the year (INR in lakhs)	555.37
4.3 Total number of computers on campus for academic purposes	684

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

- **Planning for Curriculum Delivery**

Subject distribution and overall departmental planning is done in advance before going on vacation. All the faculty members prepare teaching plan & course file of their respective subject and it is checked by HOD & Dean Academics Two tests and Mid-Sem. are conducted every semester as a part of continuous assessment system. The academic monitoring committee members with dean academics check all the academic related activities and course files of all faculty members. Two student feedbacks are conducted and analysis of all individual staff feedback is done.

Institute is a recognized local chapter of NPTEL. Students and faculty are encouraged to get certified in relevant NPTEL courses. Final year projects are selected through the visit to the industry by faculty members or through internships. The sponsored projects on industry problem are allotted to students. Industry mentors are

identified for projects of different area & mentoring is done by them for the project. The assessment of completed projects is done in online mode due to pandemic situation. Attendance record is also maintained during online teaching mode.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

The college has prepared a wall-hanging calendar in which academic activities are indicated. The calendar is provided to the students, teachers & parents for their reference.

The department wise academic calendar is prepared following calendar of university and institute calendar. The academic calendar is displayed on department notice board for student reference.

The academic calendar contains the following list of activities:

- Commencement of UG and PG classes
- Orientation and induction program
- Specific dates for formation of student association
- Student association activities
- Project reviews
- Teaching-learning feedback activity
- Co-curricular events like additional courses/training
- Specific dates for conduction of Continuous assesment - CA1,CA 2, mid sem for theory subjects
- End-semester examinations (Practical & Theory) for University assessments

- Specific dates for conduction of GATE classes
- Specific dates for conduction of pre-placement workshop (PPW)
- Commemorative events, Holidays and Semester-break
- Parent Teacher Association(PTA) meeting
- Parent meet
- Exam form filling and admission process dates

For continuous internal evaluation (CIE) process the institute adheres to the academic calendar prepared by it based on the academic calendar of the affiliating University.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	**Nil**

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University	**C. Any 2 of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	[View File](#)
Any additional information	[View File](#)

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

9

File Description	Documents
Any additional information	**No File Uploaded**
Minutes of relevant Academic Council/ BOS meetings	**No File Uploaded**
Institutional data in prescribed format (Data Template)	[View File](#)

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

12

File Description	Documents
Any additional information	**No File Uploaded**
Brochure or any other document relating to Add on /Certificate programs	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	<u>View File</u>

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

634

File Description	Documents
Any additional information	<u>View File</u>
Details of the students enrolled in Subjects related to certificate/Add-on programs	**No File Uploaded**

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

To incorporate the crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum, Institute has introduced soft skill courses which develops various aspects like Ethics in Profession, Human values etc. in students. Class representatives are equal with both boys and girls. Without gender discrimination. Female students are represented in NCC, magazine committee, cultural commiittee etc. Regular awareness programs are conducted including the popular ones being 'Tree Plantation' and 'Clean India-Swachh Bharat Campaign'. The institute has solar powered lighting system, waste water management system. Basic human rights is taught in different UG programmes as a compulsory subject in the second year. Departments have student associations which are responsible of conducting these types of events from time to time. There are

boys and girls common rooms inside the college.

The college has handicapped friendly campus. It has a ragging free environment. College has Internal complaint committee and no woman harassment case is registered till now. Apart from this, the institution takes necessary efforts in the form of quizzes, debate and poster competition and various other technical events on the issues like gender sensitization, climate change, environmental education, human rights etc.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	No File Uploaded

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

34

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	No File Uploaded
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

1251

File Description	Documents
Any additional information	**No File Uploaded**
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	**A. All of the above**

File Description	Documents
URL for stakeholder feedback report	**Nil**
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	**No File Uploaded**
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows	**B. Feedback collected, analyzed and action has been taken**

File Description	Documents
Upload any additional information	View File
URL for feedback report	**Nil**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

2020

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

1112

File Description	Documents
Any additional information	**No File Uploaded**
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

The expected cognitive skills up to XIIth standard are different than those expected in engineering. Up to XIIth standard, learning is focused on three basic cognitive skills, viz., Remembering, Understanding and Applying (Blooms Taxonomy). Engineering focuses on higher cognitive skills, viz., Analyzing, Evaluating and Creating. To train the students for these higher order skills , there is need of assessment of students at entry level. This type of assessment is done at the first year level, through the experts. Initially, a test is conducted which helps in identifying the advanced learners and slow learners. Based on the test results, focused need based counseling is done for two different groups. In first year, students are also segregated according to their merit, based on Xth, XIIth, PCM marks and CET score. Direct Second Year admitted students are segregated according to their Diploma final year marks.

1. Special Programs for Advanced Learners:

- **Scholar batches of 15 students are formed in each class to enhance quality of the result.**
- **Subject wise meetings are arranged with faculty members to discuss critical concepts.**

- In addition to two tests, prelim examination is conducted for the Scholar batch.
- NPTEL videos are made available for advanced learners.
- Video recording of difficult subjects are made available.
- These students are also motivated to pursue higher studies by conducting special GATE classes by inhouse faculty members and experts during vacations.

- During last elevan years, 138 students have qualified in GATE exam.
- Study Abroad Cell (SAC) is formed at institute level with an objective of providing opportunities to the students for getting higher education abroad. During last five years, 49 students have got admission in various universities abroad.
- Soft Skills and Aptitude Training: It is observed that student from rural area are good at technical knowledge but they lack in communication and aptitude skills.

To enhance soft skills and aptitude skills of the students, institute has appointed four full time specialized trainers. Soft Skills and Aptitude training sessions are included in regular timetable for S.E. onwards. The students are evaluated and categorized as 'average' and 'excellent' performers based on their performance during Soft Skills activities. Along with the In-house training, experts from external agencies like GTT, Zensar, Giri Tech. Hub,Barclaysare invited to conduct additional sessions.

1. Special Programs for Slow Learners:

Slow learners are identified based on entry level test by the expert and their previous exam results. Subject wise special classes are conducted for such students in the evening for clearing basics and problem solving. Individual counseling is done by the respective subject teachers for better performance in F.E. Well planned study sessions are arranged before University Exams for First Year students. These study sessions are useful for the slow learners, wherein a subject teacher personally helps the students to understand the concepts and difficult part of the subject. Additional training and guidance is provided for the average performers in Soft Skills.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	**No File Uploaded**

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
2020	**113**

File Description	Documents
Any additional information	**No File Uploaded**

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Teaching-learning process and supporting academic processes are designed and directed to achieve different learning levels of Blooms Taxonomy. Three basic levels viz., Remembering, Understanding and Applying are covered through different activities such as showing videos, animations, brainstorming, etc. Advanced learning levels viz., Analyzing, Evaluating and Creating are achieved through different activities such as design problem for a small system, conducting survey, model making, Software design, etc pertaining to the field of engineering.

Following initiatives are taken by the Institute to imbibe student centric methods for enhancing learning experiences:

1) Seeing is Believing

- **Use of Videos and Animations in Teaching**

Before starting the topic, videos/animations are shown wherever possible. For example, before teaching the topic of hydropower plant, video of hydropower plant functioning is shown to the students. This helps them to understand and visualise conceptual part of the subject in a better manner.

2) Do it yourself

- More emphasis is given tothe practical's by using virtual labs to enhance understanding by doing.
- Printed journals are provided to avoid laborious work of writing. The saved time is utilized for additional experimentation and parametric investigations.
- Hands-on online workshops such as Making your own Mobile, PCB Design, Mobile Applications, dissembling and reassembling of Automobile engine, python programming, etc. are effectively organized to increase enthusiasm and participation of the students

3) Participative Learning

- Group assignments are given to increase the ability to work in groups.
- Knowledge sharing activity is conducted in online mode, where senior students share their experiences with junior students.

4) Experiential Learning:

- Final Year Projects and Mini projects

Faculty identify the problems faced by industry. The part of problem is given to students as final year project or mini project. Some projects are sponsored by industries. Society related problems are identified at departmental level. Numbers of problems related to Solapur Smart City are identified. Efforts are made to solve these problems through different project groups. Projects are assessed by Industry experts during project exhibition in the online mode.

- Industrial Training

A mentor is assigned to each Student group. Faculty mentors communicate with the industry during the training period. The industrial training report includes completion certificate, brief profile of industry, products and services offered by industry, work done during training and outcome of the training.

- Students' Participation in different Competitions.

Students are motivated to participate in National and International project competitions such as Go-kart, Quad bike, Solar car, e-Yantra, Hackathon and technical symposium etc organized by reputed institutions.

5) Problem Solving Methodologies

- **Elementary level Problems – These include solving the problems by applying basic concepts of engineering and using simulation software.**
- **System design level problems – This is achieved through subject related assignments, problems. These include design of complete system by interfacing different sub-systems. Participation of all the students is ensured in these activities.**

6) Assessment Tools

In this pandamic instead of simply conducting online objective type assessments variety of asessment tools are tried which are as follows.

- **Open book exams :- Through this students were given analysis and design type problems.**
- **Drawings : Whereever possible students were asked to draw & submit online.**
- **Mini Projects : Where students can collect, compile process it and submit it online.**

The objective of assessment was to assess skill acquisition along with knowledge.

File Description	Documents
Upload any additional information	[View File](#)
Link for additional information	**Nil**

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

In NKOCET, All classrooms as well as Labs are ICT enabled with LCD projectors and Campus is Wi-Fi enabled. The faculty at NKOCET use various ICT enabled tools to enhance the quality of teaching-learning.

1. Google classroom and Moodle are used as LMS to manage and post course related information- learning material, notes, quizzes, lab submissions, assignments, etc.

2. Teachmint app is used by faculty members to conduct online sessions as well to provide recorded videos of session.

3. Virtual labs are used to conduct practicals through simulations.

4. The PPTs are enabled with animations and simulations to improve the effectiveness of the teaching- learning process.

5. Lecture capturing and broadcasting facility is used to create video lectures for students.

6. Lab manuals are made available to student on Google classroom as well on college archive.

7. Online quizzes and polls are regularly conducted to record the response of the students.

8. Recorded lectures are made available to students on college archive server.

9. NPTEL video lectures are made available to students on college NPTEL server.

10. To teach mathematical subjects in online mode, teachers have used various online tools like- Openboard in Microsoft teams, Google meet, Zoom platform etc.

File Description	Documents
Upload any additional information	[View File](#)
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	[View File](#)

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

113

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

113

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	**No File Uploaded**
List of the faculty members authenticated by the Head of HEI	**No File Uploaded**

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

19

File Description	Documents
Any additional information	**No File Uploaded**
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

1246

File Description	Documents
Any additional information	**No File Uploaded**
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	[View File](#)

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

Robustness of the system

Criteria for Continuous Internal Evaluation System

- **The internal evaluation system at institute level is based on following five parameters**
    - **Performance in Continuous Assessment-I (CA-I) and Continuous Assessment-II (CA-II).**
    - **Assignments**
    - **Internal POE**
    - **Journal and Assessment of Practicals**
    - **Class and Practical Attendance**
- **Head of Department and Class Coordinators (CC) conduct orientation programs at the beginning of every semester, in which entire schedule and system of internal evaluation is conveyed to the students.**
- **Continuous assessment schedule is included in Academic Calendar at the institute level. Two tests are conducted in a semester. Corrected papers are returned to the students within three days of completion of test. Tests results are displayed on the notice board as well as sent to parents through letters and SMS.**
- **Assignments are regularly evaluated by the subject teachers.**
- **Students are made aware regarding minimum 75% attendance requirement for granting the term. Class coordinator also informs that internal term work evaluation is based on continuous assessments. The internal term work is assessed for sixty marks. The sixty marks are divided into following criteria. The attendance carries five marks, Practical attendance five marks completion of Experiments carries twenty marks, journal submission carries ten marks, Assignments are evaluated for twenty marks.**

Transparency

Transparency in internal assessment is maintained through following mechanism:

- **After final internal assessment, marks are shown to students and then submitted to the university. The corrected test papers are returned to the students and Students are counselled for better performance.**
- **Final Year project assessment schedule is prepared and displayed on the notice board in the first week of the semester. Final Year students are informed about project assessment. This assessment is based on stage wise completion of the projects.**
- **Project diary includes the entire schedule of project stages, which is prepared and distributed to all groups. Project guide checks and verifies the project completion status on weekly basis and accordingly grades are given.**
- **Industrial training assessment criteria is informed to the students before joining the training by industrial training coordinator. Training assessment is based on mentor's visit to the industry, report submission and presentation/viva.**

- **The students are encouraged to discuss queries related to internal evaluation with subject teacher/ Head of the department. The subject teacher clarifies the doubts regarding their internal evaluation and takes corrective majors, if necessary.**

- **Information to the Parents**
    - **Parents are made aware about internal evaluation criteria in Parents' Meetings, which are conducted for every class at least once in a year.**
    - **Test marks are conveyed to parents through SMS.**

File Description	Documents
Any additional information	[View File](#)
Link for additional information	**Nil**

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

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.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Program educational objectives (PEOs), Program Outcomes (POs), Program Specific Outcomes (PSOs) & Course Outcomes (COs) are broad statements that describe career and professional accomplishments, that the program is preparing students to achieve. These objectives later on are assessed to evaluate progress of the respective programs.

It is necessary that the students who are undergoing the course

should be acquainted with the PEO's, POs, PSOs, & COs. Institute takes care that the PEO's, POs, PSOs, & COs are brought to notice of the students through various means.

Following steps are taken by the institute to make the PEO's, POs, PSOs, & COs. known to the students

- Branch wise PEO's, POs, PSOs, & COs. are displayed on the Institute's web site.
- Departmental Notice Boards are also best utilized to display the PEO's, POs, PSOs, & Cos, which is easily visible to each and every student.
- PEO's, POs, PSOs, & COs. are also included in student's experimental manual
- PEO's, POs, PSOs, & COs, are also available in Solapur university syllabus. University syllabus is revised after every 3 years.
- All PEO's, POs, PSOs, & COs. are also available on university website.
- Through orientation program HOD & class coordinator introduce PEOs, POs, & PSOs, & subject in charge introduce the COs.
- While preparing course file faculty member includes Cos, where ever required faculty members prepare additional COs in accordance with POs.
- During teaching learning process faculty is taking almost care to cover all PEOs, POs, PSOs, & COs.
- The syllabus copy of every subject has a mention of the Course Objectives and Outcomes.
- PEOs, POs, PSOs, & COs. are also included in assignment book. While preparing question papers care is taken that, almost all COs are covered.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	https://www.orchidengg.ac.in/research-and-development/po-pso-co/
Upload COs for all Programmes (exemplars from Glossary)	No File Uploaded

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

- The program outcomes and Course outcomes are specified by DBATU in its syllabus document.
- The courses whose course outcomes are not spectified by University, the course co-ordinator prepares the course outcome for respective subjects.
- The subject teacher maps CO's to PO's.
- The subject teacher carries out the assessment of achievement of CO's and PO's
- The tools used for assessment of CO's are as follows
  - University results
  - Assignments
  - Course exit survey
- The process for assessment of CO's and PO's are follows
  - Subject teacher maps the university question paper with the CO's . The university result for respective subject is considered for attainment of CO's. The CO's attainment is measured from individual students marks obtained in respective subject. The attainment level of CO's for each student is categorized into three levels depending upon the results. If the result is above 60%, between 40% and 60% and below 40% attainment level is categorized as high, medium and low level respectively.
  - Assignments are mapped with CO's. The attainment of the CO's is evaluated by the subject teacher considering the completion of assignment.

At the end of each semester subject teacher conducts course exit survey. The subject incharge prepares questionnaire mapping with CO's. The response to the questionnaire is categorized into low , medium and high levels. According to response from individual students attainment is evaluated

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

665

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<u>View File</u>
Upload any additional information	**No File Uploaded**
Paste link for the annual report	**Nil**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

https://docs.google.com/forms/d/1Io5KLWmnYQwz-TQNwu1-OKj8tue6gtwGwBuFMVaI01M/edit

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

13187000

File Description	Documents
Any additional information	**No File Uploaded**
e-copies of the grant award letters for sponsored research projects /endowments	<u>View File</u>
List of endowments / projects with details of grants(Data Template)	<u>View File</u>

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

07

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	<u>View File</u>

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

13187000

File Description	Documents
List of research projects and funding details (Data Template)	<u>View File</u>
Any additional information	**No File Uploaded**
Supporting document from Funding Agency	<u>View File</u>
Paste link to funding agency website	<u>https://www.mpcb.gov.in/</u> , <u>https://www.lafondation3ds.org/</u>

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

The research has always been an area of paramount importance in our institute. As a matter of policy, institute encourages faculty members to pursue their Ph.D from reputed institutes like IITS and NITS. Till now 19 faculty members have completed their Ph.D and 21faculty members are pursuing their Ph.D from such reputed institutes. The institute encourages research by providing incentives for research in the form of publications and patents. The Institute encourages teaching faculty to apply for research funding and gives rewards success in the form of academic allowances and research incentives.

Sufficient budgetary allocations are made for research through allocation for consumables, equipment's, maintenance etc. Experts from reputed institutes are invited to deliver lecture and to play a significant role in promoting the scientific temper among the faculty members. Students of the institute are encouraged to take

up innovative projects and their findings are presented in the conferences and exhibitions.

The faculty members are encouraged to publish their papers in reputed journals. Till now 220papers have been published in peer reviewed journals having good impact factor and has received good citations. To encourage research and innovation the institute has constituted R&D cell. The cell monitors and promotes research and innovative thinking among the faculty members and students. R& D cell facilitates proposal writing to various funding agencies like AICTE, DST, BARC, BRNS and University etc.

Institute is participating in ARIIA ranking and consistently performing well in Institute Innovation Cell (IIC). Performance of IIC is as follows.

- 2018-19 – 3 stars
- 2019-20 – 3 stars
- 2020-21 – 3.5 stars

In 2020-21 ARIIA ranking institute ranked in the Promisingband category.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

6

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	**No File Uploaded**
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

00

File Description	Documents
URL to the research page on HEI website	https://www.orchidengg.ac.in/research-and-development/
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	**No File Uploaded**
Any additional information	**No File Uploaded**

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

27

File Description	Documents
Any additional information	**No File Uploaded**
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

14

File Description	Documents
Any additional information	**No File Uploaded**
List books and chapters edited volumes/ books published (Data Template)	[View File](#)

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

A wide range of online activities was conducted in 2020-21

Activities such as.

1. Training programs for junior college students and teachers

2. Online Virtual lab sessions for Diploma colleges in the region

3. Sensitizing parents and students about covid protocols during the lockdown period via proctor meetings

4. Sensitizing students about vaccination

were conducted successfully

More than 2500 students, parents were benefitted because of extension activities.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

File Description	Documents
Any additional information	**No File Uploaded**
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	**No File Uploaded**

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

04

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

2000

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

101

File Description	Documents
e-copies of related Document	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

20

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Answer:

To facilitate effective teaching-learning, the institute has created and enhanced the infrastructural facilities regularly

A. Facilities for Teaching and Learning: Institute has adequate facilities (more than specified by AICTE). The detail of which is uploaded below

B. Additional Labs and Facilities Developed for Enhancing Teaching-Learning

In addition to regular facilities mentioned above additional advanced facilities are made available to enhance the quality of teaching-learning.

- **Texas Instruments Lab (Partially Sponsored by EdGate Technologies Pvt. Ltd. Bangalore in 2014)**
- **eYantra Lab (Partially Sponsored by Nex Robotics Pvt. Ltd. New Mumbai in 2016)**
- **Solar research center (Research funding from La Foundation Dassault systems in 2019)**
- **Automotive innovation lab**
- **Thermal innovation lab**
- **concrete innovation lab**
- **Soil Innovation lab**
- **Lecture Capturing Facility**
- **Video Conferencing Facility Connected to IITB as remote center under NMEICT Project.**
- **Extensive use of Virtual lab facility**

C. Other Facilities Available

- **Spacious, well ventilated and furnished classrooms. Every classroom is well equipped with LCD**

projectors to facilitate use of ICT resources such as videos, animation, etc.

- **Central library with facilities like separate reading rooms**

for boys and girls, digital library etc.

- Central computing facility with 50 Mbps leased line.
- Environmental Pollution assessment centre
- Zensar Employability sill development centre.
- Ladies room.
- Staff cabins.
- State of the art laboratories.
- Workshops.
- Separate hostels for boys and girls.
- Canteen.
- RO plant with a capacity of 1200 liters /hr.
- A fleet of buses to pick & drop the students from Solapur City.
- Playground.
- For the uninterrupted academic activity, one 45 KVA & two 35 KVA generators are provided.
- 36 kW Solar System is installed.
- Well-equipped gym is available in boy's hostel.
- Sprawling green campus.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Answer:

Sports:

Dedicated sports facilities with guidance of a sports coordinator are made available to students. Various sports facilities are described below:

- Cricket
- Kho Kho
- Vollyball
- Kabbadi
- Football

Games (indoor, outdoor, gymnasium, Yoga Centre etc.):

- **Table Tennis**
- **Carrom**
- **Chess**
- **Gym 85 Sq.M. (In Boys Hostel)**
- **Yoga training is arranged frequently.**

Participation of Students in Various Sports and Games:

Due to COVID sports acctivities were not conducted .

The details of area, year of establishment and user rate is given in table uploaded

Cultural Activities:

- **Hall for cultural activities: 450 Sq. M.**
- **Lawns covering area of 970 Sq. M. for conducting cultural activities.**
- **Additional stage for cultural activities near Civil and Mech. buildings.**
- **Audio visual and stage arrangements are made available for cultural activities**

Glimpse of cultural activities conducted in academic year 2019 – 20

File Description	Documents
Upload any additional information	[View File]
Paste link for additional information	**Nil**

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

29

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

45.20

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The Institute Library is fully integrated with the Library Management Software which leads to effective management of the Library. Barcode System is implemented in the Library for smooth functioning of issuing and returning the books. Library has the facility of DELNET and National Digital Library (NDL), its importance and use is communicated to the Faculty members and students by the Library Staff.

Students can avail the multimedia content from the 10 PCs that are available in the Library. There is a Book Bank Scheme facility for all students, wherein the students get a set of Books at the beginning of each semester and have to submit it at the end of the semester. Apart from books on Technical Subjects there are additional books on Aptitude, GATE Exam, Soft Skills and

Literature etc. The Library provides a serene ambience for the Students which they utilize to the fullest, during their examination.

During Pandemic crisis, the library provided online e-journals, DELNET and National Digital Library facilities to the students wherein they accessed these resources from home. The library provided usernames and passwords to access above resources. Also, the library provided free e-resources websites.

The library has E-granthalaya, advanced ILMS software which has partially automated with version 3.0 i.e. from 2017-18 to 2020-21. For the academic year 2016-17 the library has used DELPLUS ILMS software which was partially automated with version 2.0.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources	B. Any 3 of the above

File Description	Documents
Upload any additional information	[View File](#)
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	[View File](#)

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

File Description	Documents
Any additional information	View File
Audited statements of accounts	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

IT Infrastructure:

The Central Computing Facility and all other Computer labs in the campus are equipped with branded Dell OptiPlex 360, 380, 390, Dell OptiPlex 3010 & HP Compaq, Lenovo ThinkCentre M720 of latest configuration and they are upgraded whenever required. All computer labs are connected through a 100/1000 Gigabyte LAN. It has centralized server room with SonicWALL NSA 2650 Firewall, which shares and monitor internet facility.

The internet facility of 200 and 100 Mbps through lease line is provided to the Computer Labs of all departments, HOD cabins, faculty cabins, Library, Hostel, TPO Office, Deans and Administrative block. Internet with email and browser facility has been provided to the students, which is freely available to them 24 hours and unlimited downloads through SonicWALL firewall monitoring. Computers are attached with printer and many of the machines are connected by branded Online UPS system.

The LAN also provides FTP through which the instructional material like notes, slides and videos are provided to the students.

Wi-Fi facility: - The campus is well equipped with Wi-Fi facility through the seven access points which covers all the departments, campus, Boys and Girls Hostel area.

The IT infrastructure is regularly provided to the agencies like TCS, MKCL etc. for conducting various online examinations on holidays.

For last seven years, ONLINE GATE examination is also successfully conducted in the institute. Our institute is one of the Remote Centre of IITs under NMEICT Project of MHRD through which FDPs are organized in the institute.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

684

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution	A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	No File Uploaded

4.4 - Maintenance of Campus Infrastructure
4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)
4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)
115.94

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Answer:

PROCEDURE FOR IT MAINTAINCE

- **A teaching faculty from CSE department is given charge of IT Coordinator. Under his guidance System administrator and technical assistants are working in IT department.**
- **The task of IT department is to establish and maintain IT infrastructure in the campus.**
- **If the IT related equipment is not working properly then concerned person should report the query/ complaint on the helpdesk portal URL: http://10.0.9.211/help_desk/home.html . The complaint will be resolved on urgent basis.**

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 feature 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

-

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.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1684

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

8

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	**A. All of the above**

File Description	Documents
Link to Institutional website	**Nil**
Any additional information	**No File Uploaded**
Details of capability building and skills enhancement initiatives (Data Template)	[View File](#)

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

491

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

491

File Description	Documents
Any additional information	[View File](#)
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	[View File](#)

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

474

File Description	Documents
Self-attested list of students placed	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

22

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	**No File Uploaded**
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

17

File Description	Documents
Upload supporting data for the same	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	<u>View File</u>

5.3 - Student Participation and Activities

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

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

0

File Description	Documents
e-copies of award letters and certificates	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	**No File Uploaded**

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

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.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the

Institution participated during the year

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

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 selfconfidence,

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, studentsare 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.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	**No File Uploaded**

5.4.2 - Alumni contribution during the year (INR in Lakhs)	**E. <1Lakhs**

File Description	Documents
Upload any additional information	[View File]()

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Nature of Governance The top management, Principal and faculty work in synergy for implementing its vision, mission and quality policy. The leadership provides road map for achieving excellence in technical education and the academic and administrative processes are geared towards realizing this vision. The role of top management, Principal and faculty in design and implementation of quality policy and plans is detailed below: Top Management:

- **Sets objectives in consonance with the quality policies and shares its vision through periodic Governing Body (GB) and Management Executive Committee (MEC) meetings.**
- **Creates an organizational culture that is fair, transparent, motivating and conducive to faculty and staff to realize their potential.**
- **Makes financial provision to provide infrastructure and facilities suitable for effective services and tocater to further requirements as per growing needs.**

Principal:

- **Shares vision of the management and decisions taken by the management in weekly meetings conducted with Role Holders.**

- Motivates and monitors team of faculty and staff to realize the institute's vision and mission.
- Sets targets for academic performances, placements, technical and soft skill development, co-curricular and extra-curricular activities.
- Motivates and participates with faculty members for research, consultancy and strong industry-institute interaction.
- Sets up rules & regulations of the institution for effective governance, transparent administration and participatory decision making for collective responsibility.
- Identifies and appoints competent, qualified faculty and ensures technical competency by creating opportunities for faculty to grow professionally.
- Creates an atmosphere that is challenging, satisfying and ensures faculty retention.
- Encourages team building.
- Ensures availability of infrastructure and other facilities to satisfy academic and administrative requirements.

The day-to-day management and administration, deciding academic standards, student development initiatives and industry connect initiatives are planned and implemented by various committees of the faculty members as follows:

- Role Holders' Committee: This committee consists of all the Heads of departments, Deans and three coordinators viz. Coordinator (NAAC and NBA), Coordinator (IT), Coordinator (e-Learning and e- Resources). The committee meetings are arranged invariably every Monday at 03:30 pm. 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. Implementation of around Twenty five best practices in the institute is the culmination of deliberations in this committee. In short, for last six years, this committee played the role of Internal Quality Assurance Cell of the institute.
- Internal Quality Assurance Cell (IQAC): As per new NAAC framework & guidelines-2017, the institute has formulated IQAC, which gives participation to all stakeholders. IQAC takes decisions related with academic, co-curricular and extra-curricular initiatives.
- Local Management Committee (LMC): As per University Act, every institute needs to formulate LMC having members from Management, local members representing different fields of

the area,

- Faculty and staff. The institute has formed LMC since its inception. At least two meetings per annum are conducted. The powers and duties of LMC are budget, creation of teaching and other posts, intake capacities, institute progress.

File Description	Documents
Paste link for additional information	https://www.orchidengg.ac.in/vision-mission/
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The management recognizes need for decentralization for growth of the institute and accords autonomy commensurate with the level of management. Deans and heads are given autonomy for efficient governance as below:

- Dean Academics is responsible for academic development of the institute and monitors implementation and progress of various teaching-learning processes.
- Academic Monitoring Committee(AMC), having one senior faculty member from each department is formed for academic reviews.
- Dean Academics also works as the center coordinator for the ICT remote center of IIT Bombay.
- Dean R & D monitors Research and Development activities in the institute, guides the senior level faculty members to send proposals to various funding agencies for research grants.
- Coordinator (NAAC & NBA) is responsible for getting the institute accredited by NAAC and NBA.
- Coordinator (e-Learning & e-Resources) is responsible for providing opportunities of e-Learning like NPTEL, maintenance and effective utilization of ERP at the institute.
- Coordinator (IT) is responsible for effective implementation and utilization of IT infrastructure at the institute.

- **Dean Administration is responsible for supervision and management of all administrative and operational functions. Annual performance appraisal of faculty and staff members is being done by the Dean (Admin). The institute is assigned sub-centre of Maharashtra State Technological University DBATU. Dean (Admin) is acting as Coordinator of the sub-centre.**
- **Dean (T & P) is responsible for industry connect and student placements.**
- **Head of the departments are responsible for the academic and administrative functions of the department.**

In addition, Registrar, Accounts Officer, Librarian, Workshop Superintendent respectively takes care of office related activities, finance related issues, library resources and workshop related activities. Other supporting activities are handled by the Admission-in-charge, College Examination coordinator, NSS coordinator, cultural coordinator, sports coordinator, EDP cell coordinator, Magazine coordinator etc.

Decentralization at Department level:

- **Each class has a class coordinator, who is responsible for academic activities, student attendance, parent connect etc.**
- **Each department has various functional coordinators.**

File Description	Documents
Paste link for additional information	https://www.orchidengg.ac.in/wp-content/uploads/2020/13/Organizational%20Structure.pdf
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Activity of course-wise development plan and introduction of postgraduate courses in each department is implemented as planned: 1. The institute started in AY 2008-09 with four undergraduate course namely Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, Bachelor of Computer Science and Engineering and Bachelor of Electronics & Telecommunication

Engineering with an intake of 60 each. Total intake for AY 2008-09 of the institute was 240. 2. In AY 2009-10, intake of Mechanical Engineering increased from 60 to 90, thus increasing total intake of the institute to 270. 3. In AY 2010-11, intake of Mechanical Engineering increased from 90 to 120 and that of Civil Engineering from 60 to 120. Thus total intake of UG courses for AY 2010-11 is 360.

4. In AY 2011-12, a new course in Bachelor of Electrical Engineering is introduced with an intake of 60. Total intake of the institute now changed to 420. 5. Postgraduate courses introduced in Civil and Computer Science & Engineering departments in AY 2012- 13. The postgraduate course in Civil Engineering is "Structural Engineering" and has an intake of 18. Postgraduate course in Computer Science & Engineering has an intake of 18. 6. Postgraduate courses introduced in Mechanical and Electronics & Telecommunication Engineering departments in AY 2013-14. The postgraduate course in Mechanical Engineering is "Thermal Engineering" and has an intake of 18. Postgraduate course in Electronics & Telecommunication Engineering has an intake of 18. 7. In AY 2014-15, Direct Second Year Divisions are introduced in Computer Science & Engineering and Electronics & Telecommunication Engineering departments with an intake of 60 each.

8. In AY 2018-19, Direct Second Year Divisionsin Computer Science & Engineering and Electronics & Telecommunication Engineering departments are closed as per AICTE apex body policy and inline with this an additional division of CSE and ENTC is started for FY B.Tech.

Thus the total intake of the institute gradually increased from 420 to 540 for Undergraduate courses for First Year of Engineering

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.orchidengg.ac.in/wp-content/uploads/2020/13/Strategic%20and%20Perspective%20Plan.docx
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies,

administrative setup, appointment and service rules, procedures, etc.

The administration of NKOCET is managed by following bodies.

- Governing Body: The apex body is the Governing Body that formulates policies and directs the affairs of the institution in consultation with the management. It has representation of the management, faculty, government representatives and industry.
- Local Management Committee: At college level, the Local Managing Committee is constituted according to the Maharashtra Universities Act. It has representatives of the management, faculty and nonteaching staff.
- Role Holders' Committee: At the college level, this committee plans, implements and reviews all the activities and decisions related with budget, academic, co-curricular and extra-curricular initiatives. It has
- Heads of the departments,
- Deans and various Coordinators.
- Internal Quality Assurance Cell (IQAC): This committee takes decisions related with academic, cocurricular and extra-curricular initiatives and has participation of representatives from faculty, staff, parents and industry.

In addition, Registrar, Accounts Officer, Librarian, Workshop Superintendent respectively takes care of office related activities, finance related issues, library resources and workshop related activities. Other supporting activities are handled by the Admission-in-charge, College Examination coordinator, NSS coordinator, cultural coordinator, sports coordinator, EDP cell coordinator, Magazine coordinator etc. These units help in monitoring and facilitating several administrative functions and make administration open and transparent.

Recruitments and promotions: The appointments and promotions of all cadres of faculty are made as per the norms of AICTE (Refer No. F. No. 37-3/Legal/2010-dated 05th March, 2010) 1. Temporary appointments: When a vacancy of a Faculty is to be filled in temporary for a period of 1 year, the appointments is made through Local Selection Committee. 2. Appointment on Regular basis: The appointments of Faculty members on regular basis is made through University Selection Committee. The selected candidates is appointed on probation for the period of two years and after completion of satisfactory probation period their services are confirmed.

All internal transfers/ shift in position/timing/profile are officially communicated and necessary salary /allowance implication is worked out as per salary/appointment guidelines.

Annual salary Increment: There is a uniform date of annual increment, viz. 1st July of every year. If an employee has joined after 31st Dec., his or her increment is in next cycle and not immediate in July. Annual Increment of an employee shall freeze in case of poor performance / failure to achieve academic qualification in stipulated time period / disciplinary cause

Grievances Redressal Cell is formed in order to keep the healthy working atmosphere among the staff, students & parents. This cell helps staff, students & parents to record their complaints and solve their problems related to academics, resources and personal grievances.

The other committees are as follows: a. Anti-Ragging Committee: Ragging complaints will be handled as per government guidelines. b. Sexual harassment prevention Committee: Woman harassment complaints will be handled as per government guidelines by respective section.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://www.orchidengg.ac.in/organogram/
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	B. Any 3 of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	**No File Uploaded**
Screen shots of user inter faces	*View File*
Any additional information	**No File Uploaded**
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	*View File*

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

Welfare schemes available for teaching and non-teaching staff are as follows:

- **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 to pursue higher studies.**
- **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)**
- **Uniform to Class – IV Staff: Institute provides Two sets of uniform with supporting accessories every year to all Class-IV employees i.e. peons, housekeeping staff, security staff, gardening staff. Provision for EPF is made for regular employees.182 faculty and staff are availing this scheme. The**
- **EPF scheme is extended to those who fall under the purview of the scheme as well as for those who are not eligible as**

per the criterion declared by the EPFO.
- **Gratuity Scheme is available as per Government norms.**

File Description	Documents
Paste link for additional information	https://www.orchidengg.ac.in/wp-content/uploads/2020/13/Staff%20Welfare%202020-21.xlsx
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	No File Uploaded

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

6

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	View File
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	No File Uploaded
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

289

File Description	Documents
IQAC report summary	No File Uploaded
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	View File
Upload any additional information	No File Uploaded
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Performance appraisal system (PAS) is designed for faculty and staff members. The PAS for faculty members includes performance of faculty members in areas such as Results, Student Feedback, Contribution in R & D, Co-curricular and Extra-Curricular

activities and assessment by higher authorities. Minimum expectation levels are defined for each cadre addressing contributions appropriate to the cadre. Every faculty member submits a performance appraisal, designed to capture the performance in all spheres. As per minimum performance expectation guidelines defined in the Role Holders' meeting, the incumbent assistant professor should focus more on academics and teaching pedagogies. For Assistant professor having moderate experience between 2 – 5 years, apart from having better performance in academic content delivery and quality of results, one should try to establish good connect with industry, contribute in department level and institute level co-curricular and extra-curricular activities. Senior faculty members should focus on Research and Development activities and try to publish papers in reputed national and international journals. Also they should try to get sponsored projects from industries. Faculty members working at the level of Professor should try to get research grants by writing proposals to various agencies. The college administration addresses all the issues related to appraisal system of the staff and evaluates it. The faculty submits Self- Appraisal Report which is assessed by the Head of Department and Dean (Admin) and reported to the Principal. Low performing faculty members are counseled by Head of the department and Dean (Admin). Suggestions are given to overcome shortcomings and efforts are taken to motivate the faculty to perform better. In extreme cases letters of non-performance are given. Policy is defined for dealing with the cases of consistent non-performers.

Performance appraisal forms are separately designed for each cadre of nonteaching staff (Technical assistant, Clerk, peon, Housekeeping staff, security staff) addressing contributions appropriate for the cadre. Each staff submits his/her performance appraisal, which is assessed by head of the respective unit and reviewed every year. Based on the performance in teaching, research contribution, institute and University level contribution etc. best performing faculty members from each department are felicitated with 'Best Faculty award' and 'Letter of Appreciation'. The 'Best Employee' is awarded from each cadre of non-teaching and supporting staff having excellent performance in that cadre. The institute has also started 'Best T & P Coordinator Award' from the year 2015.

File Description	Documents
Paste link for additional information	https://www.orchidengg.ac.in/wp-content/uploads/2020/13/Performance%20Appraisal%20Proforma%20for%20Academic%20Year%202020-21.docx
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The institute has a well-established mechanism for conducting internal and external audits. Weekly audit is conducted every Wednesday by an external agency Mr. S. G. Ingale and Associates, Solapur. Also internal and external audit is conducted in every financial year to ensure financial compliance. Normally statutory financial audit is conducted in the month of April / May. Finalization of accounts is completed in May and audited statements are prepared in June duly signed by the Principal, Secretary and chartered accountant. Reports of auditing agencies are submitted to the Principal and the Managing committee of the institute. As per the annual audit reports from the external auditing agency:

- The financial statements are prepared under historical cost convention on accrual basis
- Fixed assets are stated at cost of acquisition or construction less depreciation. Cost comprises of the purchase price and other attributable costs including expenses and financial cost during the construction period. Depreciation is provided as per the Written down Value method and as per rates and procedures laid down under the Income Tax Act 1961.
- Fees from students are recognized as income. Interest on fixed deposit is recognized as income at the end of year. Interest on savings accounts is recognized as income as soon as the same is credited by bank to savings account.
- Investments are stated at cost plus accumulated interest till the date of Balance Sheet.
- The college follows generally accepted accounting principles.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	View File

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

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

46.60

File Description	Documents
Annual statements of accounts	View File
Any additional information	**No File Uploaded**
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The main source of funds for institute is the fees received from students. Directorate of Technical Education (DTE) governs all admissions in the institute. Policies for reservations and scholarships of Maharashtra Government are applicable to students admitted through centralized admission process. As per these policies, 100% fees of students from SC, ST, SBC, NT and VJ categories and 50% fees of students from OBC category is paid by Government in the form of scholarships. 50% fees of Economically Backward Open category students comes from Government. Approximately 65% of the total fees comes from Government without any predefined disbursement schedule. Institute also uses its pool of expert faculty members and available infrastructure for generation of funds. The institute provides variety of testing and consultancy services to industries and institutions. Institute has a well defined policy for distribution of funds generated through such testing and consultancy activities. If material testing is done at the institute laboratories, 50% of the fees received goes to institute account and balance is distributed among faculty members and staff involved in the activity. For professional

consultancy done by faculty members, 30% of the consultancy fees received goes to institute account and balance 70% amount is distributed among faculty members and staff involved in execution of the consulting activity.

Institute conducts paid co-curricular and extra-curricular courses, skill development activities of Central and State government for fund generation and utilization of its resources. 50% of the funds generated through such activities goes to institute account while balance 50% amount is distributed among resource person, faculty members and staff involved. Institute also provides its IT infrastructure and set up for conducting online examinations like GATE. The infrastructure is provided for such examinations on holidays only and institute gets infrastructure utilization charges.

Every year, budget is prepared well in advance after taking into consideration requirements of every department. Each department prepares its budget based on the requirements such as equipment, computers and consumables required for the next academic year. The budget reviewed by role holders' committee, management and approved after necessary changes. As and when required, the institute makes a provision for advance/ additional funds. The Role Holders' committee discuss requirements and decide the priorities while allotting financial resources for various purposes also ensuring optimum use of available financial resources. The Governing Body studies annual expenditure, scrutinizes the budget and provides feedback for efficient use of financial resources. Department heads ensure procurement of suitable equipment with the right specifications at competitive, optimal prices. Budget utilization is periodically reviewed by the management and corrective measures are taken, if required. Financial audits are conducted by a chartered accountant every financial year to verify compliance with established processes.

Fixed Deposits, current and savings accounts are kept reserved for variety of expenditure. Daily cash flow statement, funds utilization records are prepared and submitted to management. The college has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purposes which help ultimately in realizing the institute's vision.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Internal Quality Assurance Cell (IQAC) has devised and implemented various best practices in the institute such as:

- Improving quality of Final Year student projects:

To improve quality of projects, committee has implemented following decisions. 1. HODs and faculty members are informed to visit the industries and identify project topics based on problems faced by industry. 2. Each project group should have an expert from industry as mentor to make the project industry-applied. 3. Each project group should maintain project diary and fill it weekly to ensure work consistency throughout the year. 4. The committee has decided to arrange project exhibition of all final year projects at the end of every academic year. These projects are assessed by industry experts and possibility of commercialization areexplored. Prizes are given to Three best projects per department. Students from First to Third year are made to visit the exhibition to make them aware of ongoing project works and giving them opportunity to continue some of the projects further. 5. As a part of knowledge transfer, end users are invited sometimes to see the projects.

As a result of this initiative, quality of final year projects improved a lot. Projects are becoming more industry oriented and applied. Some of the projects are deployed in the industry.

- Improving student placements: Following decisions are taken by the committee for improving student placements.

1. Soft-skill is introduced as a subject in the curriculum from SE onwards. Two hours of soft-skill training per week is given to every class. Three soft-skill trainers are recruited by the institute. 2. Two hours of Aptitude Training per week given to every class from SE. For this One Aptitude trainer is recruited by

the institute. 3. Fifteen days of pre-placement workshop arranged every year in the month of June for the students entering into Final Year and for those who are interested in placements. 4. Company Specific Training arranged for eligible students before a company visits for campus recruitment. This initiative has resulted into better placements.

- Motivating students for Higher EducationFollowing decisions are taken by the committee for motivating students for higher studies.

1.Conducting GATE classes: Extra classes conducted by institute faculty for the Final Year students appearing for GATE examination. GATE software as a practice for online examination is made available to the students. As a result, Ninety Four students qualified GATE examination till now in last six years. 2.Formation of Study Abroad Cell: The institute has formed Study Abroad Cell (SAC) for guiding the students to take admission in universities abroad. The cell guides the students for GRE, TOEFL and IELTS examinations. Interaction sessions with the alumni who are pursuing higher education abroad are arranged regularly. Till now Twenty Five students got admissions in various American and European universities.

File Description	Documents
Paste link for additional information	https://www.orchidengg.ac.in/wp-content/uploads/2021/08/2-2-may-2020.pdf
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

For review of teaching-learning processes, the institute conducts student feedback. First feedback is after completion of approximately 30% of the syllabus. The second round of feedback happens at the end of semester. After first round, individual reports for faculty members are generated. A meeting of all faculty members in the department, Head of concerned Department and Principal is arranged to discuss issues raisedby students in the feedback. Instructions for improvements are given to faculty members and remedial methods for improvements are suggested. Newly joined faculty members are advised to attend lectures of senior

faculty members, go through video lectures of faculty from IITs and NITs. Faculty members having problems with communication skills are asked to discuss with soft skill trainers of the institute.

The institute has adopted many reforms in the teaching-learning process through deliberations in the role holders' meetings, such as

- Extensive use of ICT tools for improved concept clarity to the students Covering at least 15-20% of the syllabus through video animations ensures in depth understanding of the subject to the students due to Audio-Visual presentations. The two hard disks procured from NPTEL having video lectures of experts from IITs and NITs are available to all students and faculty members. This ensures imparting additional knowledge to the students.
- Subject archives created by each department on the institute's server ensure availability of all study material to all the students. Faculty members deposit study material, notes, presentations, question banks, assignments of their respective subject on the archive.
- Conducting study sessions for students of FE. Study sessions are conducted for weaker students. The department prepares time-table for study sessions and as per the schedule, students are made to seat in the class rooms, study a particular subject for three days. During these three days, respective subject teacher is present in the class room for solving problems faced by students. After these three days, a test is conducted to review performance of students. This method resulted into improvement in the results of FE students in final examinations.
- Target reviews: Role holders' committee sets performance targets for each department at the beginning of every academic year through a meeting. This ensures fare and transparent policy of setting targets for the departments. Targets are reviewed at regular intervals. Final review meeting is conducted at the end of academic year and management representative and all role holders check compliance of targets.

File Description	Documents
Paste link for additional information	https://www.orchidengg.ac.in/iqac/
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://www.orchidengg.ac.in/wp-content/uploads/2020/13/6.5.3%20Institute%20report%202021.docx
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The Institute maintains Gender equality in the campus, through various practices. Girl students are provided Library facilities, hostel facilities, canteen facilities, college bus services. They participate in arts/cultural/ sports events of the institute. Girls are imparted Soft Skills and Employability skill enhancement session by the Institute. Girl students play a major role in decision making as they are a part of committee members at Departmental and Institute level. It is ensured that the learning environment for girl students, teaching/working environment for

female faculty/staff is safe by creating awareness through various programs.

a. As per directives of University, sexual harassment restrain committee was formed in 2008. At the beginning of every academic year, a session is organized for the students to create awareness regarding women harassment. A board is displayed in all departments which consists a list of committee members along with their contact numbers in all the departments also in boys' and girls' hostels.

b. Students are sensitized through role plays on Save Girl Child, Girl Education, and Dowry etc.

performed during cultural events.

c. A session on "Enhanching Leadership through Yogic Practices" by Dr. Renuka Shiregond was conducted on 8th March 2021.

File Description	Documents
Annual gender sensitization action plan	**Nil**
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	**Nil**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment	**C. Any 2 of the above**

File Description	Documents
Geo tagged Photographs	[View File]()
Any other relevant information	[View File]()

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

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. In the college campus a 80,000 liter waste water is generated everyday. This waste water is being treated by-

a) Equalization tank : This tank is provided to meet fluctuations in waste water generation.

b) Advanced Biological Reactor : This reactor is design for treatment of 80 liter of waste water per day. In this process anaerobic digestion of waste water take place and around 30 to 40% BoD getsreduced.

c) Constructed Wetland : In this process canna-Indica is used for removal of M,P, K, from the Waste Water and also to reduced BoD.

The efficiency of the constructed plant is about 80%.

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.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	**No File Uploaded**
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus | C. Any 2 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	**No File Uploaded**

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. **Restricted entry of automobiles**
2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

C. Any 2 of the above

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	**No File Uploaded**
Any other relevant documents	**No File Uploaded**

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the | D. Any 1 of the above

following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	**No File Uploaded**
Certificates of the awards received	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen   reading | **C. Any 2 of the above**

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	**No File Uploaded**
Details of the Software procured for providing the assistance	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

The Institute believes in maintaining harmony in the campus by

propagating the feelings of respect for different cultures, religions, languages and diverse communal and socio economic strata. Various activities carried out to spread tolerance and harmony in the students with regards to the above mentioned factors. Students from all strata of the society participate in the events organized in the institute.

The College magazine Orchid Aura comprises of a variety of language sections like English, Hindi, Marathi, Sanskrit, Urdu and Telugu along with the Technical Section. Students come together and contribute their ideas, thoughts, feelings and creativity in the form of articles and poetry. It is a canvass that showcases their talent bringing them together and creating a bond of understanding, compassion and empathy. Ultimately moulding future citizens who show respect and consideration to different ideologies and cultures.

Cultural events are organized in the institute that encompass the spectrum of varied religions and cultures. The birth anniversaries of famous personalities are celebrated in the institute like that of Dr.Babsaheb Ambedkar, Shivaji Maharaj etc.

To create a sense of social responsibility Carbon Pledge was taken by the students. Also to inculcate reading habits Vachan Prerna Diwas was Celebrated. For Covid Awareness a Quiz on Covid Awareness was carried out for the students.

On the occasion of Institute Foundation Day eminent personalities are invited who have made a mark in the field of social work like Sindhu Tai Sapkal. These renowned personalities are living examples for the students to get motivated to work towards the wellbeing of the society and the nation at large.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Sensitiation of students and employees is carried out through various activities- "One Best Book is equal to Hundred Good

Friends, One Good Friend is equal to a Library", is a famous quote given by our former president Dr.APJ Abdul Kalam. To honor the birth anniversary of our late President Dr. APJ Abdul Kalam Sir ,"Vachan Prerna Diwas" (Inspire to Read Day) is observed all over India on 15th October. This day is observed so that the students understand the importance of reading and are encouraged to develop it as a hobby. Students of NKOCET celebrated this event by summarizing their favorite book online. Many students shared their views on book they liked and would like to recommend to all.

On the occasion of the 5th Anniversary of the Paris Climate agreement, the event was organized by TERRE Policy Centre and supported by UNESCO. On 22nd December 2020, college had arranged a pledge taking ceremony "Not Zero-Net Zero"- pledge for carbon neutral campus. Endeavour to empower youth's potential for research and innovation to become carbon neutrality. All students, faculty and staff members took a pledge. Some of them also took an online pledge.

"We cannot resist the fascination of sacrifice, since a passion for sacrifices is part of a Chess player's nature" - Rudolf Spielman. On the occasion of the 5th "International Chess Day" we organized an online free webinar session on "Chess for Engineers", conducted by Prof. Rohit M. Pawar, our alumni student and International Fide rated player, Chief Chess Coach at RChess World. Many students attended the session which was conducted on 4th April 2021.

To achieve the objective of "Elimination of Single-Use Plastic, NSS unit organized the Poster Making competition on 12th April 2021. Twelve students from various department participated in this online poster presentation activity by submitting their posters

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	6th International Yoga Day 21st June 2020 152 Mahatma Gandhi Jayanti 2nd Oct. 2020 Indian Constitution Day 20th Nov. 2020 Vaachan Prerana Din
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts	D. Any 1 of the above

periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students,   teachers, administrators and other staff   4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	**No File Uploaded**
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The Institute believes in maintaining harmony in the campus by propagating the feelings of respect for different cultures, religions, languages and diverse communal and socio economic strata. Various activities carried out to spread tolerance and harmony in the students with regards to the above mentioned factors. Students from all strata of the society participate in the events organized in the institute.

Cultural events are organized in the institute that encompass the spectrum of varied religions and cultures. The birth anniversaries of famous personalities are celebrated in the institute like that of Dr.Babsaheb Ambedkar, Shivaji Maharaj etc. National commemorative days like Independance Day, Republic Day, Yoga Day and so on are also celebrated in the institute.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

1. **Objectives of the Practice presented here are as follows.**

    -   **To prepare students from Placement Perspective**
    -   **To build and develop Soft Skills, Aptitude and programming skills**

1. **The Context**

India's 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 like Wipro, Infosys, Accenture, Capgemini, Tata Consultancy Services and many more 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 excellent aptitude skills, programming skills and proficient English Speaking Engineers having excellent communication skills.

Inculcating excellent aptitude skills, programming skills and communication skills is the major thrust area for the Engineering institutes as majority of the students will work in MNCs.To produce Industry-Ready-Engineers is one of the objectives of the institute. The students being from vernacular background with considerably average Intelligent Quotient face difficulty during placement drives of Multinational companies. Most of the companies scrutinize the students on the basis of their analytical ability through aptitude test, Programming skills through programming test and communication skills through Group Discussion and interviews. Considering semi-urban and rural background of the admitted

students, they struggle during placement drives when they are tested at these fronts.

In order to overcome these challenges, the institute has designed well planned and organized Soft Skills Enhancement Program, Aptitude Skills Development program and Programming Skills Workshop apart from their university curriculum. Through this program, students build their confidence and practice the required skills of the industries.

Since 2018, there is a paradigm shift in the recruitment process of major IT giants like TCS and Wipro. These companies are conducting national level Aptitude test and interviews instead of going to top colleges or accredited colleges. This move has opened plethora of opportunities for the semi urban students like ours. To inculcate the Aptitude and necessary skills for such opportunities, it is important to prepare students for aptitude, programming skills and soft skills.

1. ThePractice

- In order to mold the students as per the need of industry, the institute offers In-house soft skill and aptitude training. The institute has appointed three qualified Soft Skills Trainers and one Aptitude Trainer who train the students by implementing the structured Soft Skills and Aptitude Enhancement Program.
- Ten days' Pre-placement workshop on Aptitude in conducted wherein students are prepared to practice mock tests of Quantitative, Logical aptitude and reasoning.
- Ten days' C, C++ programming training is conducted to develop application oriented programming skills which are useful for placement perspectives.
- These trainings are very crucial as students get complete idea about exams like TCS-NQT and Wipro-NLTH and prepare students accordingly.
- In the curriculum of university, a subject communication skill is offered for first year students only. 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.

- Additionally, the Soft Skill Trainers divide the strength of the class into three batches for third year for increasing effectiveness of content delivery.
- For final year engineering students, the institute is providing training of 90 hours for Aptitude Training and 90 hours' soft skill training and in the form of pre-placement workshop to increase placements of the students.
- Students are prepared for the Campus Placement drives through regular practice of Aptitude sessions, Mock Technical Interviews, Group Discussions, Extempore Speech practice sessions, resume building, Mock interview practice sessions, etc.
- A Course Book on Soft Skills have been designed and developed by Soft Skills Training team. The book is provided to the students.
- From second semester of second year onwards each student undergoes one to one rigorous training wherein by considering the student's areas of improvements. Profiling of each student is done and respective feedback is shared with the students.
- One month Pre-placement Workshop is conducted during third year summer vacations in order to prepare the students for various Soft Skills rounds of placement drives.
- Regular Company Specific Training is arranged as far as Soft Skills, Aptitude and Technical trainings are concerned which leads to better placements.
- It is a herculean task to conduct aptitude of all students and monitor their learnings. To coduct aptitude test the institute uses Quiz star software through which students give tests online from any place even through the cell phone according to their convenience.
- For practicing programming, verbal and aptitude, the institute has made compulsory to the students to enroll on Faceprep web portal and mobile application through which students can practice important tests and contents required for placement purposes. Through this portal students access videos of Experts on aptitude,verbal programming and soft skills. Preparations of TCS and Wipro tests are done through Faceprep.

1. Evidence of Success

Because of consistent efforts by the institute this practice resulted in remarkable increase in placements of the students.

Academic Year and number of Placements

2018-19 = 346

2019-20= 449

2020-21 = 470

- We monitor student's performance from Third Year to Final Year and grade them in Excellent, Good, Average and Poor category under "Profiling" of the students. The profiling helps the students to work on their grey areas. We have got numerous students who have excelled and got placed in renowned companies.
- E.g. Ms.Vrushali Relekar (B.E. CSE) and Mr. Saiprasad Chinatakindi (BE Mech) branch were in Good category in Third Year. They improved their Communication Skills through these sessions and in B.E. final year they were in excellent category. Ms.Vrushali Relekar got a job offer in TIAA and Mr. Saiprasad Chinatakind got placed in TCS.
- Ratan Chanshetti (BE Entc), was in poor category in Third Year. After the rigorous training she was in good category and got placed in Infosys.

1. 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.
- While orientation of C and C++ training during pre-placement workshop, it has been observed that students from Mechanical and Electrical Engineering department show lack of interest. After proper counselling and sessions on how programming

- languages are useful in their career, the interest has been developed.
- 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 were motivated and proactive participation increased.
- To increase awareness, the college encouraged the students to enroll for E-learning platforms like NPTEL and IIT-BOMBAY wherein the experts from IITs have provided training to the students.

1. Notes

According to NASSCOM survey, 10% of Indian Engineers are employable in the MNCs. Before 20 years, the selection of the Engineers was done with Knowledge as the first priority, skills secondary and attitude the third priority. However, with the growth and expansion of Engineering industry, Engineers working in multi-cultural world, communication skills has become the focal point in the selection procedure of Engineering graduates. In addition to Technical skills, Soft skills have become the need of the hour.

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. It also inculcates values and helps students to face new challenges.

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.

Therefore, we strongly recommend this practice to be adopted by other institutes.

Best Practice 2: 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

1. **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.

1. **The Context**

Students lack awareness about how to prepare for Higher Education .They 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 so that they are ready in Final year to appear for GATE exam. 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.

1. 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.

1. Evidence of Success

The consistent efforts put by the Institute have resulted in the form of excellent results

Year -2021

Gate- 12 students

GRE, TOFEL, IELTS- 3 students

Year -2020

Gate- 10 students

GRE, TOFEL, IELTS- 9 students

Year -2019

Gate- 13students

GRE, TOFEL, IELTS- 6 students

Year -2018

Gate- 9 students

GRE, TOFEL, IELTS- 7 students

Year -2017

Gate- 13 students

GRE, TOFEL, IELTS- 7students

Year -2016

Gate- 13 students

GRE, TOFEL, IELTS- 7 students

Year -2015

Gate- 9 students

GRE, TOFEL, IELTS-6 students

Year -2014

Gate- 21 students

GRE, TOFEL, IELTS- 3 students

Year -2013

Gate- 19 students

GRE, TOFEL, IELTS- 3 students

1. 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. There was lack of awareness about universities abroad.
- Also majority of students are from vernacular medium and are not fluent in English language which is a necessity for GRE, TOFEL and IELTS.
- Resources required were a separate cell for Study Abroad and study material for GRE, TOFEL and IELTS.

1. Notes

The two initiatives that the institute runs for Higher Education has proved fruitful as we have got good number of students qualifying GATE exams and exams like GRE, TOFEL and IELTSand getting better scope for higher education in the best of the Universities in India or Abroad. No other institutes in the vicinity have these well structured initiatives. We suggest these best practices to be implemented by other institutes, which will ultimately come up with best results benefitting the students at large.

File Description	Documents
Best practices in the Institutional website	Study Abroad Cell-https://www.orchidengg.ac.in/study-abroad-cell/ Placement-https://www.orchidengg.ac.in/placement/ https://www.orchidengg.ac.in/wp-content/uploads/2021/07/TPONSSCulturalSAC.pdf GATE-https://www.orchidengg.ac.in/gate-coaching/
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The Institute's distinctiveness has its foothold on four dimensions namely Acquiring Knowledge, Soft Skill Development, Strong Industry Connect and Co-Curricular Courses

The top most distinctiveness is Strong Industry Connect. The Institute has evolved with strong industry connect department wise which has resulted into placements, Internships for students, gaining Industry projects, Testing and Consultancy and the various grants received from the industries.

- The mission statement of the Institute is "Pursuing Industry –Institute interaction"
- Projects have received patents from Industry
- Third year engineering students undergo 6 months Industry training under faculty guidance
- The final year projects are based on industry or societal problems
- Industry Expert is allotted as co-mentor for students' project group
- Faculties have to undergo one month industrial training within two years of joining
- MoUs are signed with Industries by each department

MoU with Zensar Technologies has lead into training and placement opportunities for the CSE and Entc students.

MoU with Dassault Systems has lead into funding of the Solar Research Lab and gaining patents for Research Projects

MoU with Tata Technologies has resulted into providing training to the Third year Mechanical students.

File Description	Documents
Appropriate web in the Institutional website	[View File](#)
Any other relevant information	**No File Uploaded**

7.3.2 - Plan of action for the next academic year

Future Plans and Actions for the Next Academic Year

NKOCET always strives towards success through proper planning and execution. It is ahead of the times due to its innovative practices that cater the future needs of the industry and the society.

1. **During the pandemic the institute successfully implemented its Online Education Model which resulted in successful completion of all the academic sessions and practical's through online platforms and virtual labs. Also students were imparted online training for getting them placement ready.**
2. **The Institute plans for NBA within 1 year**
3. **The Institute plans to go for Autonomy within 2 years**
4. **The Institute will apply for 2nd cylce of NAAC for Grade Improvement.**