



YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	Government College of Engineering, Amravati
• Name of the Head of the institution	Prof. Dr. A M Mahalle
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	07212531929
• Alternate phone No.	07212531930
• Mobile No. (Principal)	9960590210
• Registered e-mail ID (Principal)	principal@gcoea.ac.in
• Address	Government College of Engineering, Amravati Kathora Naka V.M.V. Road Amravati
• City/Town	Amravati
• State/UT	Maharashtra
• Pin Code	444604
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	01/07/2006
• Type of Institution	Co-education
• Location	Urban

• Financial Status	UGC 2f and 12(B)												
• Name of the IQAC Co-ordinator/Director	Prof U M Thorkar												
• Phone No.	07212531929												
• Mobile No:	9422178758												
• IQAC e-mail ID	dean.quality@gcoea.ac.in												
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.gcoea.ac.in/?page=Nzk=&name=NAAC												
4.Was the Academic Calendar prepared for that year?	Yes												
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.gcoea.ac.in/?page=Mzk=&name=Academic%20Calender												
5.Accreditation Details													
<table border="1"> <thead> <tr> <th>Cycle</th> <th>Grade</th> <th>CGPA</th> <th>Year of Accreditation</th> <th>Validity from</th> <th>Validity to</th> </tr> </thead> <tbody> <tr> <td>Cycle 1</td> <td>B+</td> <td>2.68</td> <td>2021</td> <td>07/09/2021</td> <td>06/09/2026</td> </tr> </tbody> </table>		Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to	Cycle 1	B+	2.68	2021	07/09/2021	06/09/2026
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to								
Cycle 1	B+	2.68	2021	07/09/2021	06/09/2026								
6.Date of Establishment of IQAC	01/10/2019												
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?													
<table border="1"> <thead> <tr> <th>Institution/ Department/Faculty/School</th> <th>Scheme</th> <th>Funding Agency</th> <th>Year of Award with Duration</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Nil</td> <td>Nil</td> <td>Nil</td> <td>Nil</td> <td>Nil</td> </tr> </tbody> </table>		Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	Nil	Nil	Nil	Nil	Nil		
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount									
Nil	Nil	Nil	Nil	Nil									
8.Provide details regarding the composition of the IQAC:													
• Upload the latest notification regarding the composition of the IQAC by the HEI	View File												
9.No. of IQAC meetings held during the year	1												
• Were the minutes of IQAC meeting(s) and	Yes												

compliance to the decisions taken uploaded on the institutional website?		
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10.Did IQAC receive funding from any funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> If yes, mention the amount 		
11.Significant contributions made by IQAC during the current year (maximum five bullets)		
<p>1 NBA Accreditation of B.Tech Civil Engineering for three years [2022-23 upto 2024-2025] 2NBA Accreditation of B.Tech Civil Engineering for three years [2022-23 upto 2024-2025] 3Academic Audit of the institute for AY 2019-2020 and 2020-2021 has been held offline in the institute 4 IQAC Meeting Held:The quality initiatives are done as per suggestions in IQAC Meeting A EDC /Innovation cell and innovation council is established in the institute B The activities in various departments and placement data is updated on the website C Implementation of R & D Policy of the institute . D implementation of innovation Policy of the institute . 5 First Year Curriculum is as per National Education Policy 2020 started in AY 2022-2023</p>		
12.Plan of action chalked out by IQAC at 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) Need Efforts and facilitation of start-up	1 The institute has prepared and implemented the GCOEA Innovation and Start-Up Policy 2022 in line with the National Innovation and Start-Up Policy 2019.A start-up named Able Innovation has developed Hearing aid devices in the institute, and the institute has provided an initial grant of Rs 240000.00
2) Faculty and students should be motivated to avail for funding for IPR	2 The Research and development policy for the faculty and students has been prepared, approved by the financial committee and BOG of the institute, and implemented. In that policy,
3) To motivate the students regarding IPR, a workshop was arranged on 18/01/2023 by Mrs.Pooja Vishal Maulikar, Examiner of Patents and Design, Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM) Nagpur	Key outcome of the activity: The outcome of the activity is given below 1) Students got Awareness about Intellectual Property Rights (IPR) 2) Basic Concept of IPR 3) Types of IPR and its significance 4) Information required for filling the patents 5) Procedure to convert research outcome into patents
4) Incubation/Innovation centre to be established	4 Innovation incubation cell is established and activities are conducted in the year 2023-24
13.Was the AQAR placed before the statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
IQAC	01/09/2023
14.Was the institutional data submitted to	Yes

AISHE ?	
<ul style="list-style-type: none"> • Year 	
Year	Date of Submission
2022-23	06/01/2023
15.Multidisciplinary / interdisciplinary	
<p>The institute has started the National Education Policy 2020 recommendation from the Academic year 2022-23. The NEP 2020 structure is implemented from 2023-2024 for First year and progressive for second, third and final year in coming years. The multidisciplinary/interdisciplinary courses are introduced in the said curriculum. Key Features of curriculum</p> <ol style="list-style-type: none"> 1. Multiple entry and exit option after every year. 2. Provision for Open Electives (OE), Vocational and Skill Enhancement Courses (VSE), Ability Enhancement Courses (AE), Indian Knowledge System (IKS), Value Education Courses (VE), Co-Curricular Courses (CC) in addition to program core courses. 3. Mandatory internship of one semester. 4. Credits for Value education courses, Ability Enhancement Courses, Co-Curricular Curricular Activities. 5. Mandatory Non-Credit Courses. 6. Interdisciplinary and multidisciplinary education through single and double minors and open electives. 7. Skill based courses and multiple exit level. 8. Provision for learning in online mode through Swayam/ NPTEL etc courses 9. Provision for B.Tech. Honours with Research degree through research project. 10. Opportunity for learner to choose courses of their interest in all disciplines. 11. Provision of Skill Based Courses and internship/Field project/mini projects for exit options at each level. 	
16.Academic bank of credits (ABC):	
<p>The institute has started the implementation of the National Education Policy 2020 recommendation from the Academic year 2022-23. The Academic Bank of Credits (ABC) will certainly be introduced in the said curriculum. The institute has been registered on NAD National Academy depository. Students ABC ID are ready. Implementation of the ABC is in process and implemented phasewise.</p>	
17.Skill development:	
<ol style="list-style-type: none"> 1 Provision for Open Electives (OE), Vocational and Skill Enhancement Courses (VSE), Ability Enhancement Courses (AE), Indian 	

Knowledge System (IKS), Value Education Courses (VE), Co-Curricular Courses (CC) in addition to program core courses.

Key features of curriculum

1. Multiple entry and exit option after every year.
2. Provision for Open Electives (OE), Vocational and Skill Enhancement Courses (VSE), Ability Enhancement Courses (AE), Indian Knowledge System (IKS), Value Education Courses (VE), Co-Curricular Courses (CC) in addition to program core courses.
3. Mandatory internship of one semester.
4. Credits for Value education courses, Ability Enhancement Courses, Co-Curricular Curricular Activities.
5. Mandatory Non-Credit Courses.
6. Interdisciplinary and multidisciplinary education through single and double minors and open electives.
7. Skill based courses and multiple exit level.
8. Provision for learning in online mode through Swayam/ NPTEL etc courses
9. Provision for B.Tech. Honours with Research degree through research project.
10. Opportunity for learner to choose courses of their interest in all disciplines.
11. Provision of Skill Based Courses and internship/Field project/mini projects for exit options at each level.

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

1. Provision for Open Electives (OE), Vocational and Skill Enhancement Courses (VSE), Ability Enhancement Courses (AE), Indian Knowledge System (IKS), Value Education Courses (VE), Co-Curricular Courses (CC) in addition to program core courses.
2. SH 1106 Indian Knowledge system is the course at first semester having 02 theory classes and Internal assesment of 40 Marks with 2 credits allotted

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

The Institution is practicing Outcome Based Education based on the guidelines of National Board of Accreditation. The Institution and the Departments have elaborately prepared its vision and mission statements. Each programme defines its Programme Specific Outcomes

along with the Programme Outcomes defined by NBA and each course in the curricula has its Course Objectives/Course Outcomes in alignment with the Institution Mission/Vision statements. Each department has Department Faculty Board and Board of Studies to ensure the attainment of defined outcomes and accordingly the revisions are carried out for curricular improvements in terms of course content, delivery methods and assessment methods. The curriculum developments are further submitted to Academic Program Evaluation Committee .The Curriculum is approved by APEC nad then finally approved in the Academic council of the institute .The inputs and feedbacks received from Experts from industry /Academia, Internal Faculty members, Employers, Students, Alumni and parents play a vital role in revision of vision / mission/programme outcomes/programme specific outcomes /regulations/curricula/ course content.

20.Distance education/online education:

Institute does not offer any distance education / Online education courses for degree .Few courses students can learn from the Swayam/MOOC/Coursera and their credits can be considered in the coming NEP structure .

Extended Profile

1.Programme

1.1 15

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 1895

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 480

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

1904

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

863

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

73

Number of full-time teachers during the year:

Extended Profile

1. Programme

1.1	15
Number of programmes offered during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File

2. Student

2.1	1895
Total number of students during the year:	
File Description	Documents
Institutional data in Prescribed format	View File

2.2	480
Number of outgoing / final year students during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File

2.3	1904
Number of students who appeared for the examinations conducted by the institution during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File

3. Academic

3.1	863
Number of courses in all programmes during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	73
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Number of full-time teachers during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
3.3	113	
Number of sanctioned posts for the year:		
4.Institution		
4.1	265	
Number of seats earmarked for reserved categories as per GOI/State Government during the year:		
4.2	21	
Total number of Classrooms and Seminar halls		
4.3	862	
Total number of computers on campus for academic purposes		
4.4	854.05	
Total expenditure, excluding salary, during the year (INR in Lakhs):		

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The recent major revision was taken up in 2019, based on the model curricula suggested by the AICTE. In year 2022-23, the institute offered new curriculum for four years of UG programs. The PG programmes were completely under new scheme.

The programmes include Foundation courses (basic science, engineering science, humanities and social science), Professional Core, Professional Electives including industry designed and offered electives, Open Electives, Employability Enhancement

Courses, and self-study courses in the curricula to provide a strong theoretical foundation blended with practical engineering skills with an emphasis on Social/professional responsibility and Ethical/Environment and Sustainability related issues. Apart from this, the students are encouraged to undergo Industrial Training/Internship. The departments also arrange Industrial Visits for each class of students at least once in every year.

The Institution is practicing Outcome Based Education as per the guidelines of NBA. Each department ensure the attainment of defined outcomes and accordingly review of curricula, delivery methods and assessment methods is done. The inputs and feedbacks received from Experts from Industry/Academia, Internal Faculty members, Employers, Students, Alumni and parents play a vital role in revision of outcomes.

Link of curriculum:<https://gcoa.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

7

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

69

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

7

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

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

7

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The recent major revision was taken up in 2019, based on the model

curricula suggested by the AICTE. In year 2022-23, the institute offered new curriculum for four years of UG programs, The PG programmes were completely under new scheme.

The programmes include Foundation courses (basic science, engineering science, humanities and social science), Professional Core, Professional Electives including industry designed and offered electives, Open Electives, Employability Enhancement Courses, and self-study courses in the curricula to provide a strong theoretical foundation blended with practical engineering skills with an emphasis on Social/professional responsibility and Ethical/Environment and Sustainability related issues. Apart from this, the students are encouraged to undergo Industrial Training/Internship. The departments also arrange Industrial Visits for each class of students at least once in every year.

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Link of curriculum:<https://gcoea.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

16

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

751

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

312

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni **B. Any 3 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

460

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

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

216

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 students' learning levels and organises special programmes for both slow and advanced learners.

The institute organizes the orientation programme for newly admitted students. During the year 2022-23, the programs were organized in offline mode. Apart from remedial classes for poor performing students, the special audit courses are offered for students admitted directly to second year. The institution follows a well-designed academic plan to implement desired learning objectives, assess the students and guide them to improve their academic performance.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/07/2022	1895	73

File Description	Documents
Upload 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:

The curriculum has theory, laboratories, workshops, seminars & project work to attain the relevant program outcomes outlined by National Board of Accreditation. The new ways and means were to be discussed, deliberated and followed to carry out the academics. The laboratory courses were conducted.

The examples of student centric methods like experiential learning, problem solving methodologies etc. being used by the institute is as given below.

- Minor and Major project
- Case studies
- Student internship programs
- Skill development programs
- Expert Talks
- Self Study

Link of curriculum:<https://gcoa.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Every faculty have continued with the new avenues of the entire teaching learning process. The students were facilitated by sharing learning material in the form of power point presentations and soft copies of the notes prepared by the faculty. The awareness is created for the NPTEL, MOOCS and SWAYAM courses available forenhancing the knowledge in common as well as specialized areas. The laboratory courses were conducted. The soft skills trainings were arranged in the online mode. Also, students were encouraged to take up the AICTE offered industrial and other skill based trainings made available at national level. The library resources in the form of e-books and journals were made available to the students by the Institute. Conduction of examinations, assessment of laboratory and theory courses, and assignments submission is also carried out online by the teachers and controller of examination.

Teaching learning process was resumed in conventional mode (offline mode). However, the students were still encouraged to use NPTEL, MOOCS and SWAYAM courses available for enhancing the knowledge in common as well as specialized areas.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	Nil
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

72

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	No File Uploaded
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Detailed academic calendar indicating dates for all scheduled activities such as commencement of classes for each semester, online registration for semester, all class tests/ midterm exams, end of the term, end semester exams (theory and practical), list of holidays and vacations is being prepared well in advance and then is discussed, modified (if required) and then approved in academic program evaluation committee and finally in the academic council. The approved academic calendar is uploaded on institute's website and displayed on the notice board of all departments to enable all students to aware of all academic activities before/at the time of commencement of academic year.

In year 2022-23, the rescheduling of the activities was carried out from time to time as per the need and it was communicated to the students by displaying on the website, informing in the class wise Whatsapp groups, and through respective teachers handling the courses. Every faculty has liberty to prepare and implement their own teaching plan and methodology for their subjects. The thinking behind this is to have more flexible and student centric teaching learning process.

https://www.gcoea.ac.in/downloads/Academic_Calendar_2023-2024.pdf

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

73

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	No File Uploaded
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

32

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1317

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

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

40-51

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

1333

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

For evaluation of student's academic performance, old scheme comprised Teacher's Assessment - 10 marks, Class Test I and II - 15 marks each, and the End-Semester Examination (ESE) - 60 marks. In the new scheme (since 2019-20), Class Test I and II are replaced with single Mid Semester Examination (MSE) - 30 marks. In both the schemes, laboratory courses are evaluated continuously throughout the semester based on the parameters including Technical competence, Innovation, Participation in team, Integrity and Responsibility.

The institute utilizes cloud based MIS software for registration of the students and result processing. The students have direct access to the MIS through their login ID to check their marks and grades.

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

2.6 - Student Performance and Learning Outcomes

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

POs for each of the engineering UG program are specified by National Board of Accreditation (NBA). PSOs are the specific program wise outcomes that have been separately formulated for the programs offered by all the Departments of the Institute. COs are the measurable parameters which evaluate students' performance for each course that is undertaken in every semester. COs are written for each of the course of all the programs offered presently. The POs, PSOs and COs are displayed on the website prominently. The separate meetings were conducted with peer groups, faculty and supporting staff to make them aware of outcomes. The teachers themselves were involved in preparing vision, mission, POs, PSOs and COs. The students are informed about the course outcomes by the respective teachers. The POs and PSOs are also exhibited as posters in the respective Departments. The POs, PSOs and COs are elaborated in the syllabi of all the programs.

Link of

curriculum:<https://www.gcoea.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://www.gcoea.ac.in/?page=Nw==&name=Curriculum

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The CO attainment level is measured using the result of the internal assessment and End Semester Examination/external examination as a Direct Assessment and course feedback by students and expert feedback by peer experts as an indirect assessment. Direct assessment is taken as 70%- 80% and indirect assessment is taken as 10%-20% as per the concerned course coordinators .

Later, PO and PSO attainment is calculated using Course-PO and PSO

articulation matrix.

The complete procedure of calculation of CO and PO attainment is elaborated in the additional information uploaded herewith.

The data used for calculation of CO-PO attainment includes:

Marks obtained in the examination

Lab work actual performance and internal continuous evaluation and external examination

Teacher's assessment

Mini project: include design, problem identification, problem formulation fabrication, site visits, market survey, model and prototype based work, report writing

Project: includes design, problem identification, problem formulation fabrication, experimental, data analysis

Feedback of faculty members regarding student's performance and degree of achievement of POs

Feedback from students about faculty with regard to teaching skills/methodology, coverage of syllabus and related topics covered

Feedback from alumni regarding achievement of COs

Students Placement Record

Feedback from employer regarding performances of students in different sectors.

Student's Exit feedback from passing graduates.

Upload previously uploaded file for this metric.

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

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

551

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
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://gcoea.ac.in/downloads/2_7_1_Students_Satisfaction_Survey1.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The institute has laboratories of six departments which are recognized as research centre by Sant Gadge Baba Amravati University, Amravati. These laboratories are well equipped and updated every year by procuring up-to-date equipment. The institute has two Centres of Excellence to provide the latest research facilities to the faculty members as well as students in the areas of Industrial Internet of Things, and Instrumentation Control and Automation. To improve technical competency of faculty

members and to enhance the research work in the institute, the Institute has adopted the R&D policy to provide financial assistance to the faculty for attending conferences and to publish the research papers in reputed journals. Financial assistance is provided to attend a National/ International conference to present a paper, chair a session or deliver an expert talk, to file a patent, copyrights, trademarks. The R&D policy for faculty is available at the institute, which covers all aspects of faculty development and is available on the institute's website. Financial assistance is provided to attend a training organised by institute of repute, for content updating. Faculty members are motivated to complete their PG/ Ph. D under Quality Improvement Programme by deputing them full time to NITs &IITs

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	No File Uploaded
Provide URL of policy document on promotion of research uploaded on the website	https://www.gcoea.ac.in/?page=NzM=&name=R%20&%20D
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

2.3971

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1.0

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

24

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	www.aicte-india.org
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The institute has also adopted GCOEA Innovation and Start-up Policy which is in line with National Innovation and Start-up Policy 2019 of Ministry of Education Govt. of India will help students and faculties to undertake various innovative projects, IPR, Start-up, New Idea generation etc.

The institute will provide grant in aid of Rs 100000.00 to each start up by the faculty and students subject to scrutiny by the committee set by the principal on the basis of uniqueness and patentability. If further grant in aid is required then, detailed proposal with justification shall be forwarded to Principal appointed scrutiny committee consisting internal expert from related field.

The GCOEA will allow students to set up a start-up (including social start-ups) or work part-time for a start-up, while studying. Students can work on their innovative projects and set up start-ups (including social start-ups), or work as intern / part-time in start-ups (incubated in the Institution), while studying

Due to constant support from the institute and finacmcia; support two start-up namely Able glasses and Team Nayan developed in the institute and brought many laurels for the teams and the institute

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

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

2

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course

B. Any 3 of the above

work Plagiarism check through authenticated software

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

10

File Description	Documents
URL to the research page on HEI website	https://www.gcoea.ac.in/?page=NzM=&name=R%20&%20D
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

12

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

4

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

81

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	No File Uploaded

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

13

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	No File Uploaded
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

155

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

00

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The institute, in normal circumstances, conduct number of activities to sensitize the students about social issues. Following programs were conducted.

1. An event on the occasion of 75 th Independence Day was conducted on 10 th August 2022 in Government College of Engineering Amravati under Students Welfare Association to celebrate the "Azadi Ka Amrut Mahotsav". The event was hosted at Civil A.V Hall in the presence of Principal of GCoEA. Chief guest Capt. Dr. Sunil Sadashiv Ingale .

2. Yoga Day Program (20th June , 2022)

This year, as every year, International Yoga Day was celebrated at Government College of Engineering Amravati.

3 An event was conducted on 25July, 2022under Students Council GCOEA. The Chief Guest Dr.Umesh Jadhav Sir is currently volunteering as a member of NCC-IP for AICTE and Regional Coordinator for Western Region for the same.The topic is "Role of Education in Holistic Development" for students ,faculty and staff of GCOE Amravati

4An event on the occasion of International Women's Day was conducted on 8 th March\under Women's Grievance Committee to celebrate the presence of women in our society. The event was inaugurated by Tree Plantation Program in the Administration Building The Chief guest Prof. Vanita Raut .

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

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

3

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

4

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

320

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration**3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work**

10

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

7

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

Every department is provided with built up space as per the requirements of AICTE in the form of class rooms, laboratories and seminar halls, staff rooms and departmental library. In addition to this there are central facilities in the form of library, computing facility and student recreational facilities. Allied areas in the form of hostels, and mess cater the need of students. Every department has smart classroom in addition to this the institute has Audio-visual seminar hall in civil and computer science engineering department.

Every department has dedicated laboratories and classrooms. Each laboratory is equipped with sufficient number of required experimental setups. Computers in the campus are connected to internet. Central library is having a large collection of textbooks, journals (hard copy and soft copy) and magazines. There is E-class room in the central library with a seating capacity of 30, where digital library facility is available to the students and faculty. Also e journals and online books/ learning material can be accessed.

The library provided the remote access to the students and the faculty of the Institute in the times of online education in the year 2022-23 as well. This initiative helped the students in carrying out their studies and fulfil their minor and major project and seminar requirements.

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

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

There are adequate facilities available on campus for various activities. Grounds spread over around 8 acres of land are available for the outdoor and indoor games that include Cricket, Foot-Ball, Basket Ball, Volleyball, Handball, Indoor Games: Badminton, Table Tennis, Carom / Chess, Body Gym.

The students themselves manage different clubs like Robotics Club, Fine art Club Photography Club, Music and Dramatics Club, etc. Also, there are students association e.g. CESA, Civil Engineering Students association (similarly MESA, EESA etc. for other disciplines) for conduct of co-curricular activities. There are different student chapters of professional societies e.g. ISTE, IE(I), IEEE etc.inthe departments. Students get proper exposure through extracurricular and co-curricular activities conducted through the above clubs, associations and chapters.

In the Year 2022-23, under Kalpana Chawla trophy,interdepartmental sports competition was organized that Badminton, Cricket, Volley Ball, Football, Chess, etc. The department withmaximum number of wins, viz., Civil Engineering bagged the trophy.

The College Annual Day Function, Zenith 2023 was celebrated with various cultural activities that include Drama, Sugam Sangeet, Variety Entertainment, Art-Craft-Value Education, Dance, Fishponds, etc. College Magazine, which includes the articles written by students, activities conducted by various departments etc., was also published in 2022- 23.

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

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

21

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

238.6

File Description	Documents
Upload audited utilization statements	No File Uploaded
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

Data Requirement: Provide a description of the library with

- Name of the ILMS software - SLIM21 (System for Library Information Management)
- Nature of automation (full or partial) - Fully
- Version - upgrade 3.8.0
- Year of automation - 2003

Following information provides the insight into the library resources and facilities at a glance along with relevant software for automation. Books 82684 (General Section- 46072, Book Bank Section-36612) E-Journals (National & International) 904 (ASME-33, ASCE-35, IEEE-190, Science Direct-296, Taylor & Francis-350) News Papers 12 (Marathi- 06, Hindi- 01, English- 05) Magazines General 24 (English- 19, Marathi- 05) E-Books 481 (MgGraw Hill-130, Vidya e-books-34, Pearson-317) Electronic Database Videos, VCDs & DVDs 3998 NPTEL Video Course 90 OPAC (Online Public Access Catalog) ServiceAlso available on institute intranet. Library Automation with SLIM Automates nearly every library task. NDLI Club (National Digital Library of India Club) Registration number is INMHNCXJPA67X5L. Institute Users are registered with NDLI Club , which is an initiative of MHRD todevelop a framework of virtual repository of learning resources. E -Library A separate E-Room with 20 multimedia PC with uploaded DVDs VCDs/NPTEL videos & with the Internet facility. Webinar & MOOC, Educational channel facility Seminar room with capacity of 30 along with LCD projector facility is available for Webinar purpose along with TV facility. Plagiarism Software:TypesetHelpful in publishing research papers. Multimedia PC 39

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://ieeexplore.ieee.org/Xplore/home.jsp

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	No File Uploaded

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

62.78

File Description	Documents
Audited statements of accounts	View File
Any additional information	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 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

48

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The Institute has upgraded the current internet bandwidth from 100Mbps to 1 Gbps, under National Knowledge Network (NKN), a Central Government scheme. Further, the BSNL leased line capacity is increased from 75 Mbps to 140 mbps. The important additional procurement includes the Cisco Firewall for providing network security, number of advanced Wi-Fi devices and switches, etc. The wireless access points and switches were added to provide better wireless internet service to the users. Simultaneously, the networking of various departments is strengthened to cater to 1000 physical nodes and more than 1000 wireless internet users.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.gcoea.ac.in/?page=NzI=&name=Data%20Center

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
1895	750

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus **A. 50 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	No File Uploaded
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content **C. Any two of the above**

**development: Facilities available
for e-content development Media Centre
Audio-Visual Centre Lecture Capturing
System (LCS) Mixing equipments and
software for editing**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

51.91

File Description	Documents
Audited statements of accounts	No File Uploaded
Upload any additional information	View File

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

The construction of new buildings and major maintenance are carried out by Public Works Department of Government of Maharashtra. In addition to this, the Institute has its own Building and Works Committee that comprises Principal (Chairman), one BoG member, one Architect, PWD representative, AMC representative, Dean (Construction) and Head (Civil) as a member secretary. This committee takes decisions on infrastructure developments, electrical installations and budgetary provisions thereof. Minor civil works are executed and monitored by the committee.

Institute has few regular employees to look after the cleanliness. Apart from that, the housekeeping work and gardening is carried out by hired agencies. Major electrical installation and maintenance work is looked after by electrical division of PWD. There is a set system for addressing the minor electrical problems

which is supervised by the Electrical Engineering Department.

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 benefitted by scholarships and freeships provided by the Government during the year

1576

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

26

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology **A. All of the above**

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

581

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

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

B. Any 3 of the above

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

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

292

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

11

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

8

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

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

6

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

STUDENTS COUNCIL:

It comprises all the class representatives (three from each class) of all the programs, the University representative, ladies representative, gymkhana. The council conducts various programs and workshops for the betterment of the students. The CRs meetings are held regularly to get the feedback regarding academics and the other problems.

GYMKHANA COUNCIL:

It is a students' body that include the secretaries of various sports and co-curricular activities. It is headed by the General Secretary, Gymkhana and supported by the Joint General Secretary and Ladies Representative. It consists of a total of 22 secretaries that are selected through an interview process. These secretaries are responsible for organising their respective activity and guide the student participants in the University level competitions. The major events organized are Annual Gathering, 'Zenith', Kalpana Chawla Sports Trophy and the technical competition 'Prajwalan'.

ANTI-RAGGING COMMITTEE: As per norms of AICTE, comprises one student representing each hostel (3 boy's and 2 girl's hostels) in the campus.

WOMEN'S GRIEVANCE COMMITTEE: As per the guide lines from SGB Amravati university, the committee comprises one UG students and one PG student.

ACADEMIC BOARD: Two student representatives in the board, one each from UG and the PG.

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

5.3.3 - Number of sports and cultural events / competitions organised by the institution

5

File Description	Documents
Report of the event	No File Uploaded
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The activities of association include:

1. Alumni Meet An Alumni Meet is organised every year by the alumni association. The batch completing 25 years organises the function along with get together.

2.Alumni Support The association supports many activities every year that includes fresher's welcome program and activities during the annual gathering, sports trophy and technical competition.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://gcoeamt.almaconnect.com/

5.4.2 - Alumni's financial contribution during the year

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The Board of Governors (BoG) is vested with powers to frame the policies for overall development, administration, finance and academics. The BoG is supported with other statutory bodies as defined by UGC for autonomous institutes. These bodies include Academic Council (Senate), Finance Committee (FC), Building Works Committee (BWC), Academic Program Evaluation Committee (APEC), Subject Boards (BoS) and Department Faculty Board (DFB). In each of the above committees, the faculty members are nominated and are involved in decision making. BoG is very keen to see that the various programs have been designed and implemented in consultation with all the stake holders and so also with the expert guidance of faculty from IIT, NIT and industrial experts. The management and administration are supportive to the staff and students in order to achieve their goals. The institute has well documented financial procedure and rules. Sufficient funds are available in the form of its own deposits, State Govt. grant (salary) and funding agencies. The institute has developed various policies in order to align institutional progress with vision and mission.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.gcoa.ac.in/?page=NDU=&name=Boards%20of%20Governor%E2%80%99s

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The Board of Governors takes the policy decisions. All the statutory and non-statutory committees are constituted as per the UGC guidelines for autonomy. The meetings are conducted regularly and the minutes are well recorded. All these committees derive inputs from stake holders, viz., internal faculty, staff,

students, University, Directorate, alumni, faculty experts from outside, Industries, Research Organizations etc. Academic activities are also audited by internal and external committees. Periodic feedbacks are obtained from students, parents, alumni, employers etc for enabling overall improvement of the college. The college has also framed academic rules under Autonomy. This college practices participative management at various levels. Various positions, namely, Dean (Planning and Administration), Dean (Academics), Dean (R&D) Dean (QA), Dean (IIIC and TPO), Dean (Students welfare), Dean (Corporate relations), Planning and evaluation committee, Gymkhana Managing Committee, Library Committee, Faculty Advisors for student activities, Coordinators, Purchase Committee, Electrical Maintenance In-charge, Water Maintenance In-charge, Hostel wardens, Rector, Security In-charge, Canteen In-charge, Heads of Departments, Grievances Committees for students, supporting staff, faculty, Women's Grievance Cell, Anti Ragging Committee, Garden Committee, Training and Placement Committee, Campus Cleaning Committee, etc. are available and working is very smooth.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The Institute has decided the strategic goals in accordance with the Vision, Mission, quality policy and core values. The following are the broader areas of activities.

1 Industry Institute Interaction

2 Placement, Internship and Career Guidance

3 Financial Planning and Good Governance

4 Physical Infrastructure Faculty and Staff

5 Trainings Teaching Learning and Evaluation Process

6 Entrepreneurship

7 Financial Management

8 Research Development and Innovation

9 Quality Assurance

10 Testing and Consultanc

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Service rules, procedures, recruitment and promotional policies are governed by Maharashtra Civil Services Rules and government norms revised from time to time. Facility of upward movement to the higher post under time scale is available for faculty as well as technical and non-technical supporting staff. Grievance redressal committees for faculty, supporting staff, women, students and SC/ST faculty and staff are nominated and working in the institute. These committees are responsible for timely clearing of relevant cases. The link to documentary evidences of the different committees is provided herewith.

All the statutory and non-statutory bodies that are required as per the UGC guidelines with regard to autonomy are in place. The meetings of these bodies are carried out as per the norms and procedures and minutes are displayed on the website.

The appointment of teachers are processed by public service commission through its official process and all service conditions and rules are governed by code of conduct prescribed in Maharashtra Civil Service Rules (MCSR), which are modified time to time.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.gcoea.ac.in/?page=NDQ=&name=Organization%20Structure
Upload any additional information	View File
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Being a Government institute, the support for upliftment of the faculty and staff alongwith social & family security is provided as given below.

- Pension scheme as per rules
- Group Insurance Scheme
- Accidental Insurance
- Medical claim facility for employees and their dependents
- Loan for house, car, motorcycle, computer Festival advance of Rs. 10000 during the Diwali festival for Class III and Class IV employees .
- Leave Travel concession once in four year in State Home town travel allowance once every two year
- General Provident Fund and Advance/Loan availability For faculty,
- Career Advancement Scheme For supporting staff,

- time scale promotion
- Deputation for upgradation of qualifications, M.Tech. and Ph.D., for faculty under Quality Improvement Program
- Study leave for two years for other employees
- Assurance of service to the dependents of the deceased employee on compassionate grounds
- Cooperative society with contribution from the employees themselves, under which, emergency loan is available

Institute initiatives:

- Grant for Patent.
- Grant for attending conference/ seminars, publishing research paper, etc.
- Sports and cultural program for faculty and staff once in a year at R.O. level.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.gcoea.ac.in/?page=NzM=&name=R%20&%20D

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

8

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)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

0

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

33

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Audit (External)

The financial audit of the Institute is carried out by Accountant General (Maharashtra-2) once in two or three years. All the grants received from State Government, other agencies like AICTE, DST, fees collected and internal revenue generated are scrupulously audited. The audit committee submits its report along with the relevant findings and objections, if any to the Institute and the Director, Technical Education. The compliance of the objections raised by the auditors is given by the Institute within the framework of rules and regulations.

Audit (Internal)

After grant of autonomous status in 2006, the Institute is retaining student's tuition fee. The same is utilized for recurring and non-recurring expenditure of the Institute. The rules and regulations set by the State Government are followed by the Institute. As per the directives of Board of Governance (BoG),

the internal audit is conducted at hands of renowned chartered accountant (CA), every year. The report is submitted by auditors to the Institute along with findings and objections, if any. The office then takes efforts to regularise the objections by taking necessary corrective measures and compliance. The audit report and its compliance is tabled in the Finance Committee meeting and the BoG meeting.

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

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The institute became autonomous in 2006. In order to move towards self-sufficiency, the State Govt. Of Maharashtra allowed to retain the fee of the students admitted in the institute. Further, the institute receives Salary Grant and separate grants for construction of new facilities from the State Government. The institute has established four funds as per the directives, namely, corpus fund, staff development fund, depreciation fund and maintenance fund.

The institute receives Research and Lab development Grants from agencies like AICTE, DST, etc. Also, grants are obtained for Faculty Development Programs.

The institute also generates its internal revenue by offering testing, consultancy and continuing education program.

The preparation and approval of budget of the institute is a systematic process. The departments, deans and various offices submit requisition of funds for the ensuing financial year. The draft budget is prepared based on requisition by member secretary, finance committee and Dean (Finance). The finance committee discuss the budget in detail and recommend it with necessary revision to the Board of Governance (BoG) for approval. The budget finally approved by BoG, is followed for respective Financial Year. In case of emergent supplementary demands, similar procedure is adopted.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC cell has been in place to cater the needs outlined as per the guidelines of NAAC.

The specific initiatives undertaken during the year include the following

- The institute has prepared and implemented the GCOEA Innovation and Start-Up Policy 2022 in line with the National Innovation and Start-Up Policy 2019, where financial, administrative, and mentoring support are provided to the start-up by the students
- A start-up named Able Innovation has developed Hearing aid devices in the institute, and the institute has provided an initial grant of Rs 240000.00. This start-up has won awards ,also received grants for the development of prototypes from IIT Mandi and IIT Kanpur.
- To motivate the students regarding IPR, a workshop was arranged on 18/01/2023 by Mrs. Pooja Vishal Maulikar, Examiner of Patents and Design, Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM) Nagpur

- UGC Recommended the extension for a period of 05 years from the academic year 2020-2021 to 2024-2025 as per clause 8.1
- Two Centre of Excellence -in Internet of Things and Industrial Automation and control is established in the Institute worth one crore Rs each
- The Electrical department has been accredited by NBA from 2021-22,2022-23,2023-24 upto 30 Jun 2024
- The Civil and Mechanical Engineering department is accredited by NBA from 2022-23,2023-24,2024-25 upto 30 Jun 2025

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.gcoea.ac.in/downloads/MoM_IQAC_01_Sep_2023.pdf

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Two examples of facilitation by IQAC are noted below:

- The New curriculum structure and syllabus is approved for B.Tech final year Civil, Mechanical, Electrical, Electronics and Telecommunication, Computer science, Information Technology and Instrumentation engineering in the 45th Academic council meeting held on 25 Jun 2022
- Course Outcomes for each course is mentioned in the curriculum
- Course outcomes and Programme outcomes are mapped as per the strength of the corresponding Co and PO [3 Strong 2 Moderate 1 Weak]
- Two centers of excellence were established in the Institute.
- The progress of teaching throughout the semester is monitored by conducting two meetings of Class Representatives for review and feedback.
- Curriculum is updated recently recently beginning from from first year in 2019-20. Learning outcomes are clearly stated for each of the courses. For undergraduate programs, in the year 2022-23, final year batch faced the new curriculum.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.gcoea.ac.in/?page=NDM=&name=SE NATE%20(MoM)

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.gcoea.ac.in/?page=Nzk=&name=NA AC
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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 Women's Grievance Committee is formed as per the guidelines and instructions received from SGB Amravati University. The purpose of this committee is to avoid the incidence of sexual harassment. The members of the Women's Grievance Committee are a senior lady faculty as chairman, BoG representative, a lady advocate, a social activist, two senior staff members and student representatives. Under this cell various programs like counseling sessions, workshops, career guidance programs, mental health awareness programs, guest lectures, etc. are regularly held in the

institute. The main motto behind this is to bring about gender sensitivity. An overwhelming response is always observed from the students throughout the academic year.

The programs conducted in 2022-23 include: An event on the occasion of International Women's Day, 8th March, was inaugurated by Tree Plantation Program. Chief guest Prof. Vanita Raut addressed the audience to enhance the quality of their life by giving own self a priority and considering mental health an important aspect for attaining peace on the walks of performing every role as a woman. She interacted with students and faculties. She inspired all the women to be the driver of their entity and make the best out of it.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.gcoea.ac.in/?page=NTY=&name=Institute%20Committee

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy plant Wheeling to the Grid energy conservation Use of LED bulbs/ power-efficient equipment

D. Any 1of the above

File Description	Documents
Geotagged Photographs	No File Uploaded
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid waste management: - The Institute has four boys hostel and two girls hostel and residential quarters for wardens along with Principal's residence. The solid waste generated from this area is collected by sweepers. The garbage other than the solid waste are also collected by housekeeping personnel and handed over to municipal corporation personnel. The dry leaves and plant cuttings are collected at the identified location and shredded using machine. Then it is loaded into green bin composting unit. The composted manure is utilised in the gardens.

Liquid waste management: - Proper sewerage system is provided in the campus. Sewage from residential area is collected in one septic tank and overflow from the same is drain off with the help of sewer. The wastewater is disposed off into municipal sewer line.

E-waste management: - Electronic goods are put to optimum use. The irreparable electronic goods and damaged computers are written off and then sold to scrap vendor. The e-waste generated within the department buildings is collected at one location in the building and handed over to eligible contractor for the further processing.

Hazardous chemicals and radioactive waste management: - The unused UPS Batteries are exchanged with the licensed suppliers.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	No File Uploaded
Any other relevant information	No File Uploaded

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

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of the facilities	No File Uploaded
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:

A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles

3. Pedestrian-friendly pathways**4. Ban on use of plastic****5. Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	No File Uploaded
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 undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

D. Any 1 of the above

- 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 a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and

B. Any 3 of the above

facilities for persons with disabilities:
accessible website, screen-reading software,
mechanized equipment, etc. Provision for
enquiry and information: Human assistance,
reader, scribe, soft copies of reading
materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing 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, socio-economic and other diversities (within a maximum of 200 words).

The students from all types of backgrounds and hailing from the differed strata of the society seek admission in the Institute. There are students from all the backward classes and also from the economically weaker section. The Institute encourages and practices impartial outlook towards not only the students but also the faculty and supporting staff with cultural, regional, linguistic, communal, socio-economic and other diversities. All the policies are framed in the interest of the students, faculty and staff that are aimed equally at the welfare and well being of all.

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

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

On 26th November and on 26th January every year, the public reading of the preamble of the constitution is made as per the directives of the Government. The different programs and events organized for a week at the time of birth anniversary of Dr. B.R. Ambedkar every

year to infuse the awareness of constitutional obligation, values, rights, duties and responsibilities of the citizens outlined in the constitution. On the occasion of Anti Terrorist Day (21st May), Sadbhavana Divas (20th August), National Unity Day (31st October and 19th November), the oath of respective day is taken by students, faculty and staff.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization 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 Annual awareness programmes on the Code of Conduct are organized

C. Any 2 of the above

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

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

The institute celebrates birth anniversaries of great Indian personalities. The government of Maharashtra issues a resolution every year mentioning the names of personalities whose birth anniversaries are to be celebrated. Accordingly, the students and

faculty, and staff meet in the Gymkhana hall for the function. On the occasion of Anti-Terrorist Day (21st May), Sadbhavana Divas (20th August), and National Unity Day (31st October and 19th November), the oath of the respective day is taken by students, faculty, and staff. On 26th November, the preamble to the Constitution of India is read and the oath is taken to follow the constitution of India and work for unity. On the occasion of the birth anniversary of Dr. B.R. Ambedkar, one week is celebrated by organizing various activities/events that include whole day reading, debate competition, essay competition, inviting the expert to deliver the lecture on Ambedkar's thoughts etc. All these activities are conducted and monitored by Gymkhana.

link :<https://www.gcoea.ac.in/?page=MjE5&name=Newsletter>

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practices as per naac format

1 Newsletter of the Institute

Objectives Share Information about a Institute's mission, vision, and goals. Institutes use this tool to share the growth roadmap with students. Furthermore, it provides activities held, crucial information to the stakeholders and keeps them updated about the progress of the institute

The Context 1 To meet the students engaged and updated in the latest happenings in the institute 2 To build the brand of the institute showcasing the best practices through the technical, social and all types of activities

The Practice The Newsletter is published in three quarters of the

year [Jan-Apr 2022, May-Aug 2022,Sept-Dec 2022].The newsletter showcase the Institute Vision, Mission and Core values to all the stakeholders .

Evidence of the success The News letter is accessible to all the stakeholders as published on the website of theInstitute

<https://www.gcoea.ac.in/?page=MjE5&name=Newsletter>

2 Startup Idea Pitching competition

Objectives To encorage and motivate the students about the start up and innoivation idea and turn into a product

The Practice Around 45 teams participatedfrom thheneary engineering colleges

Evidence of the success

https://www.gcoea.ac.in/downloads/7_2_1_Formation_of_IIC_session_22-23_onwards-merged_compressed.pdf

File Description	Documents
Best practices in the Institutional website	https://www.gcoea.ac.in/?page=MjE5&name=Newsletter
Any other relevant information	https://www.gcoea.ac.in/downloads/7_2_1_Formation_of_IIC_session_22-23_onwards-merged_compressed.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

CoE" Industrial Internet of Things" worth 01 croreis established in the year 2020 in the Information Technology in collaboration of GCOE Amravati and Industrial partners "Diya IT Solution, Pune" and "Sensital technologies Pvt ltd, Australia".CoE has well equipped laboratories and highly experienced industrial faculty.

CoEnamed " Industrial Control & Automation" worth 1 crore is established in the year 2020 in theInstrumentation Engineering-in collaboration with industry partner as DIVY IT Solutions, Pune and IRAI, France in the year 2020.

2]The Institution Innovation Council (IIC) is established according to the guidelines from AICTE and Ministry of Education,

Activities Start Up Idea Pitching Competition, ,MOU Signed between GCOEA and BLI Consultancy Pvt Ltd -Patents

3]SAE BAJA ACTIVITIES

The Team GCOEA won National Level Runner up Prize in SAE Baja Competition organised by SAE in association with Chitkara University Chandigarh in March 2020. The Prize Includes Trophy and Rs 125000/

The Team GCOEA achieved second runner up for Gradeability in the static event in the year of 2022. The competition was held at Pithampur, Indore

The Team GCOEA has achieved 2nd runner up in virtual run in year 2021-2022

42 students got selected in Mahindra & Mahindra Ltd -BAT

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The recent major revision was taken up in 2019, based on the model curricula suggested by the AICTE. In year 2022-23, the institute offered new curriculum for four years of UG programs. The PG programmes were completely under new scheme.

The programmes include Foundation courses (basic science, engineering science, humanities and social science), Professional Core, Professional Electives including industry designed and offered electives, Open Electives, Employability Enhancement Courses, and self-study courses in the curricula to provide a strong theoretical foundation blended with practical engineering skills with an emphasis on Social/professional responsibility and Ethical/Environment and Sustainability related issues. Apart from this, the students are encouraged to undergo Industrial Training/Internship. The departments also arrange Industrial Visits for each class of students at least once in every year.

The Institution is practicing Outcome Based Education as per the guidelines of NBA. Each department ensure the attainment of defined outcomes and accordingly review of curricula, delivery methods and assessment methods is done. The inputs and feedbacks received from Experts from Industry/Academia, Internal Faculty members, Employers, Students, Alumni and parents play a vital role in revision of outcomes.

Link of curriculum:<https://gcoea.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

7

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

69

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year**

7

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

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

7

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The recent major revision was taken up in 2019, based on the model curricula suggested by the AICTE. In year 2022-23, the institute offered new curriculum for four years of UG programs, The PG programmes were completely under new scheme.

The programmes include Foundation courses (basic science, engineering science, humanities and social science), Professional Core, Professional Electives including industry designed and offered electives, Open Electives, Employability Enhancement Courses, and self-study courses in the curricula to provide a strong theoretical foundation blended with practical engineering skills with an emphasis on Social/professional responsibility and Ethical/Environment and Sustainability related issues. Apart from this, the students are encouraged to undergo Industrial Training/Internship. The departments also arrange Industrial Visits for each class of students at least once in every year.

The Institution is practicing Outcome Based Education as per the guidelines of NBA. Each department ensure the attainment of

defined outcomes and accordingly review of curricula, delivery methods and assessment methods is done. The inputs and feedbacks received from Experts from Industry/Academia, Internal Faculty members, Employers, Students, Alumni and parents play a vital role in revision of outcomes.

Link of

curriculum:<https://gcoea.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

16

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

751

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

312

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

B. Any 3 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

460

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

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

216

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 students' learning levels and organises special programmes for both slow and advanced learners.

The institute organizes the orientation programme for newly admitted students. During the year 2022-23, the programs were organized in offline mode. Apart from remedial classes for poor performing students, the special audit courses are offered for students admitted directly to second year. The institution follows a well-designed academic plan to implement desired learning objectives, assess the students and guide them to improve their academic performance.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/07/2022	1895	73

File Description	Documents
Upload 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:

The curriculum has theory, laboratories, workshops, seminars & project work to attain the relevant program outcomes outlined by National Board of Accreditation. The new ways and means were to be discussed, deliberated and followed to carry out the academics. The laboratory courses were conducted.

The examples of student centric methods like experiential learning, problem solving methodologies etc. being used by the institute is as given below.

- Minor and Major project
- Case studies
- Student internship programs
- Skill development programs
- Expert Talks
- Self Study

Link of

curriculum:<https://gcoea.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Every faculty have continued with the new avenues of the entire teaching learning process. The students were facilitated by sharing learning material in the form of power point presentations and soft copies of the notes prepared by the faculty. The awareness is created for the NPTEL, MOOCS and

SWAYAM courses available forenhancing the knowledge in common as well as specialized areas. The laboratory courses were conducted. The soft skills trainings were arranged in the online mode. Also, students were encouraged to take up the AICTE offered industrial and other skill based trainings made available at national level. The library resources in the form of e-books and journals were made available to the students by the Institute. Conduction of examinations, assessment of laboratory and theory courses, and assignments submission is also carried out online by the teachers and controller of examination.

Teaching learning process was resumed in conventional mode (offline mode). However, the students were still encouraged to use NPTEL, MOOCS and SWAYAM courses available for enhancing the knowledge in common as well as specialized areas.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	Nil
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

72

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	No File Uploaded
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Detailed academic calendar indicating dates for all scheduled activities such as commencement of classes for each semester, online registration for semester, all class tests/ midterm exams, end of the term, end semester exams (theory and practical), list of holidays and vacations is being prepared

well in advance and then is discussed, modified (if required) and then approved in academic program evaluation committee and finally in the academic council. The approved academic calendar is uploaded on institute's website and displayed on the notice board of all departments to enable all students to aware of all academic activities before/at the time of commencement of academic year.

In year 2022-23, the rescheduling of the activities was carried out from time to time as per the need and it was communicated to the students by displaying on the website, informing in the class wise Whatsapp groups, and through respective teachers handling the courses. Every faculty has liberty to prepare and implement their own teaching plan and methodology for their subjects. The thinking behind this is to have more flexible and student centric teaching learning process.

https://www.gcoea.ac.in/downloads/Academic_Calendar_2023-2024.pdf

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

73

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	No File Uploaded
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

32

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1317

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

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

40-51

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

1333

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

For evaluation of student's academic performance, old scheme comprised Teacher's Assessment - 10 marks, Class Test I and II - 15 marks each, and the End-Semester Examination (ESE) - 60 marks. In the new scheme (since 2019-20), Class Test I and II are replaced with single Mid Semester Examination (MSE) - 30 marks. In both the schemes, laboratory courses are evaluated continuously throughout the semester based on the parameters including Technical competence, Innovation, Participation in team, Integrity and Responsibility.

The institute utilizes cloud based MIS software for registration of the students and result processing. The students have direct access to the MIS through their login ID to check their marks and grades.

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

2.6 - Student Performance and Learning Outcomes

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

POs for each of the engineering UG program are specified by National Board of Accreditation (NBA). PSOs are the specific program wise outcomes that have been separately formulated for the programs offered by all the Departments of the Institute. COs are the measurable parameters which evaluate students' performance for each course that is undertaken in every semester. COs are written for each of the course of all the

programs offered presently. The POs, PSOs and COs are displayed on the website prominently. The separate meetings were conducted with peer groups, faculty and supporting staff to make them aware of outcomes. The teachers themselves were involved in preparing vision, mission, PEOs, PSOs and COs. The students are informed about the course outcomes by the respective teachers. The POs and PSOs are also exhibited as posters in the respective Departments. The POs, PSOs and COs are elaborated in the syllabi of all the programs.

Link of

curriculum:<https://www.gcoea.ac.in/?page=Nw==&name=Curriculum>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://www.gcoea.ac.in/?page=Nw==&name=Curriculum

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The CO attainment level is measured using the result of the internal assessment and End Semester Examination/external examination as a Direct Assessment and course feedback by students and expert feedback by peer experts as an indirect assessment. Direct assessment is taken as 70%- 80% and indirect assessment is taken as 10%-20% as per the concerned course coordinators .

Later, PO and PSO attainment is calculated using Course-PO and PSO articulation matrix.

The complete procedure of calculation of CO and PO attainment is elaborated in the additional information uploaded herewith.

The data used for calculation of CO-PO attainment includes:

Marks obtained in the examination

Lab work actual performance and internal continuous evaluation and external examination

Teacher's assessment

Mini project: include design, problem identification, problem formulation fabrication, site visits, market survey, model and prototype based work, report writing

Project: includes design, problem identification, problem formulation fabrication, experimental, data analysis

Feedback of faculty members regarding student's performance and degree of achievement of POs

Feedback from students about faculty with regard to teaching skills/methodology, coverage of syllabus and related topics covered

Feedback from alumni regarding achievement of COs

Students Placement Record

Feedback from employer regarding performances of students in different sectors.

Student's Exit feedback from passing graduates.

Upload previously uploaded file for this metric.

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

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

551

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
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://gcoea.ac.in/downloads/2_7_1_Students_Satisfaction_Survey1.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The institute has laboratories of six departments which are recognized as research centre by Sant Gadge Baba Amravati University, Amravati. These laboratories are well equipped and updated every year by procuring up-to-date equipment. The institute has two Centres of Excellence to provide the latest research facilities to the faculty members as well as students in the areas of Industrial Internet of Things, and Instrumentation Control and Automation. To improve technical competency of faculty members and to enhance the research work in the institute, the Institute has adopted the R&D policy to provide financial assistance to the faculty for attending conferences and to publish the research papers in reputed journals. Financial assistance is provided to attend a National/ International conference to present a paper, chair a session or deliver an expert talk, to file a patent, copyrights, trademarks. The R&D policy for faculty is available at the institute, which covers all aspects of faculty development and is available on the institute's website. Financial assistance is provided to attend a training organised by institute of repute, for content updating. Faculty members are motivated to complete their PG/ Ph. D under Quality

Improvement Programme by deputing them full time to NITs &IITs

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	No File Uploaded
Provide URL of policy document on promotion of research uploaded on the website	https://www.gcoea.ac.in/?page=NzM=&name=R%20&%20D
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research**3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)**

2.3971

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1.0

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

24

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	www.aicte-india.org
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The institute has also adopted GCOEA Innovation and Start-up Policy which is in line with National Innovation and Start-up Policy 2019 of Ministry of Education Govt. of India will help students and faculties to undertake various innovative projects, IPR, Start-up, New Idea generation etc.

The institute will provide grant in aid of Rs 100000.00 to each start up by the faculty and students subject to scrutiny by the committee set by the principal on the basis of uniqueness and patentability. If further grant in aid is required then, detailed proposal with justification shall be forwarded to Principal appointed scrutiny committee consisting internal expert from related field.

The GCOEA will allow students to set up a start-up (including social start-ups) or work part-time for a start-up, while studying. Students can work on their innovative projects and

set up start-ups (including social start-ups), or work as intern / part-time in start-ups (incubated in the Institution), while studying

Due to constant support from the institute and finacmcia; support two start-up namely Able glasses and Team Nayan developed in the institute and brought many laurels for the teams and the institute

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

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

2

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

B. Any 3 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

10

File Description	Documents
URL to the research page on HEI website	https://www.gcoea.ac.in/?page=NzM=&name=R%20&%20D
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

12

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

4

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

81

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	No File Uploaded

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

13

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	No File Uploaded
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

155

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

00

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The institute, in normal circumstances, conduct number of activities to sensitize the students about social issues. Following programs were conducted.

1. An event on the occasion of 75 th Independence Day was conducted on 10 th August 2022 in Government College of Engineering Amravati under Students Welfare Association to celebrate the "Azadi Ka Amrut Mahotsav". The event was hosted at Civil A.V Hall in the presence of Principal of GCoEA. Chief guest Capt. Dr. Sunil Sadashiv Ingale .

2. Yoga Day Program (20th June , 2022)

This year, as every year, International Yoga Day was celebrated at Government College of Engineering Amravati.

3 An event was conducted on 25July, 2022under Students Council GCOEA. The Chief Guest Dr.Umesh Jadhav Sir is currently volunteering as a member of NCC-IP for AICTE and Regional Coordinator for Western Region for the same.The topic is "Role of Education in Holistic Development" for students ,faculty and staff of GCOE Amravati

4An event on the occasion of International Women's Day was conducted on 8 th March\under Women's Grievance Committee to celebrate the presence of women in our society. The event was inaugurated by Tree Plantation Program in the Administration Building The Chief guest Prof. Vanita Raut .

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

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

3

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

4

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

320

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

10

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

7

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

Every department is provided with built up space as per the requirements of AICTE in the form of class rooms, laboratories and seminar halls, staff rooms and departmental library. In addition to this there are central facilities in the form of library, computing facility and student recreational facilities. Allied areas in the form of hostels, and mess cater the need of students. Every department has smart classroom in addition to this the institute has Audio-visual seminar hall in civil and computer science engineering department.

Every department has dedicated laboratories and classrooms. Each laboratory is equipped with sufficient number of required experimental setups. Computers in the campus are connected to internet. Central library is having a large collection of textbooks, journals (hard copy and soft copy) and magazines. There is E-class room in the central library with a seating capacity of 30, where digital library facility is available to the students and faculty. Also e journals and online books/ learning material can be accessed.

The library provided the remote access to the students and the faculty of the Institute in the times of online education in the year 2022-23 as well. This initiative helped the students in carrying out their studies and fulfil their minor and major project and seminar requirements.

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

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

There are adequate facilities available on campus for various activities. Grounds spread over around 8 acres of land are available for the outdoor and indoor games that include Cricket, Foot-Ball, Basket Ball, Volleyball, Handball, Indoor

Games: Badminton, Table Tennis, Carom / Chess, Body Gym.

The students themselves manage different clubs like Robotics Club, Fine art Club Photography Club, Music and Dramatics Club, etc. Also, there are students association e.g. CESA, Civil Engineering Students association (similarly MESA, EESA etc. for other disciplines) for conduct of co-curricular activities. There are different student chapters of professional societies e.g. ISTE, IE(I), IEEE etc.inthe departments. Students get proper exposure through extracurricular and co-curricular activities conducted through the above clubs, associations and chapters.

In the Year 2022-23, under Kalpana Chawla trophy,interdepartmental sports competition was organized that Badminton, Cricket, Volley Ball, Footbal, Chess, etc. The department withmaximum number of wins, viz., Civil Engineering bagged the trophy.

The College Annual Day Function, Zenith 2023 was celebrated with various cultural activities that include Drama, Sugam Sangeet, Variety Entertainment, Art-Craft-Value Education, Dance, Fishponds, etc. College Magazine, which includes the articles written by students, activities conducted by various departments etc., was also published in 2022- 23.

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

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

21

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

238.6

File Description	Documents
Upload audited utilization statements	No File Uploaded
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource**4.2.1 - Library is automated using Integrated Library Management System (ILMS)**

Data Requirement: Provide a description of the library with

- Name of the ILMS software - SLIM21 (System for Library Information Management)
- Nature of automation (full or partial) - Fully
- Version - upgrade 3.8.0
- Year of automation - 2003

Following information provides the insight into the library resources and facilities at a glance along with relevant software for automation. Books 82684 (General Section- 46072, Book Bank Section-36612) E-Journals (National & International) 904 (ASME-33, ASCE-35, IEEE-190, Science Direct-296, Taylor & Feancis-350) News Papers 12 (Marathi- 06, Hindi- 01, English- 05) Magazines General 24 (English- 19, Marathi- 05) E-Books 481 (MgGraw Hill-130, Vidya e-books-34, Pearson-317) Electronic Database Videos, VCDs & DVDs 3998 NPTEL Video Course 90 OPAC (Online Public Access Catalog) ServiceAlso available on institute intranet. Library Automation with SLIM Automates nearly every library task. NDLI Club (National Digital Library of India Club) Registration number is INMHNCXJPA67X5L. Institute Users are registered with NDLI Club , which is an initiative of MHRD todevelop a framework of virtual repository of learning resources. E -Library A separate E-Room with 20 multimedia PC with uploaded DVDs VCDs/NPTEL videos & with the Internet facility. Webinar & MOOC, Educational channel facility Seminar room with capacity of 30 along with LCD projector facility is available for Webinar purpose along with TV

facility. Plagiarism Software:TypesetHelpful in publishing research papers. Multimedia PC 39

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://ieeexplore.ieee.org/Xplore/home.jsp

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	No File Uploaded

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

62.78

File Description	Documents
Audited statements of accounts	View File
Any additional information	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 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

48

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The Institute has upgraded the current internet bandwidth from 100Mbps to 1 Gbps, under National Knowledge Network (NKN), a Central Government scheme. Further, the BSNL leased line capacity is increased from 75 Mbps to 140 mbps. The important additional procurement includes the Cisco Firewall for providing network security, number of advanced Wi-Fi devices and switches, etc. The wireless access points and switches were added to provide better wireless internet service to the users. Simultaneously, the networking of various departments is strengthened to cater to 1000 physical nodes and more than 1000 wireless internet users.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.gcoea.ac.in/?page=NzI=&name=D_a_ta%20Center

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
1895	750

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus A. 750 Mbps

File Description	Documents
Details of bandwidth available in the Institution	No File Uploaded
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development:
Facilities available for e-content development
Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

C. Any two of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

51.91

File Description	Documents
Audited statements of accounts	No File Uploaded
Upload any additional information	View File

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

The construction of new buildings and major maintenance are carried out by Public Works Department of Government of Maharashtra. In addition to this, the Institute has its own Building and Works Committee that comprises Principal (Chairman), one BoG member, one Architect, PWD representative, AMC representative, Dean (Construction) and Head (Civil) as a member secretary. This committee takes decisions on

infrastructure developments, electrical installations and budgetary provisions thereof. Minor civil works are executed and monitored by the committee.

Institute has few regular employees to look after the cleanliness. Apart from that, the housekeeping work and gardening is carried out by hired agencies. Major electrical installation and maintenance work is looked after by electrical division of PWD. There is a set system for addressing the minor electrical problems which is supervised by the Electrical Engineering Department.

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 benefitted by scholarships and freeships provided by the Government during the year

1576

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

26

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	A. All of the above								
<table border="1"> <thead> <tr> <th data-bbox="97 483 531 551">File Description</th> <th data-bbox="531 483 1394 551">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="97 551 531 656">Link to Institutional website</td> <td data-bbox="531 551 1394 656">Nil</td> </tr> <tr> <td data-bbox="97 656 531 759">Details of capability development and schemes</td> <td data-bbox="531 656 1394 759">View File</td> </tr> <tr> <td data-bbox="97 759 531 831">Any additional information</td> <td data-bbox="531 759 1394 831">View File</td> </tr> </tbody> </table>	File Description	Documents	Link to Institutional website	Nil	Details of capability development and schemes	View File	Any additional information	View File	
File Description	Documents								
Link to Institutional website	Nil								
Details of capability development and schemes	View File								
Any additional information	View File								
5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year									
581									
<table border="1"> <thead> <tr> <th data-bbox="97 1032 531 1099">File Description</th> <th data-bbox="531 1032 1394 1099">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="97 1099 531 1167">Any additional information</td> <td data-bbox="531 1099 1394 1167">View File</td> </tr> <tr> <td data-bbox="97 1167 531 1379">Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)</td> <td data-bbox="531 1167 1394 1379">View File</td> </tr> </tbody> </table>	File Description	Documents	Any additional information	View File	Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File			
File Description	Documents								
Any additional information	View File								
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File								
5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	B. Any 3 of the above								

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

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

292

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

11

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

8

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

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

6

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

STUDENTS COUNCIL:

It comprises all the class representatives (three from each class) of all the programs, the University representative, ladies representative, gymkhana. The council conducts various programs and workshops for the betterment of the students. The CRs meetings are held regularly to get the feedback regarding academics and the other problems.

GYMKHANA COUNCIL:

It is a students' body that include the secretaries of various sports and co-curricular activities. It is headed by the General Secretary, Gymkhana and supported by the Joint General Secretary and Ladies Representative. It consists of a total of 22 secretaries that are selected through an interview process. These secretaries are responsible for organising their respective activity and guide the student participants in the University level competitions. The major events organized are Annual Gathering, 'Zenith', Kalpana Chawla Sports Trophy and the technical competition 'Prajwalan'.

ANTI-RAGGING COMMITTEE: As per norms of AICTE, comprises one student representing each hostel (3 boy's and 2 girl's hostels)

in the campus.

WOMEN'S GRIEVANCE COMMITTEE: As per the guide lines from SGB Amravati university, the committee comprises one UG students and one PG student.

ACADEMIC BOARD: Two student representatives in the board, one each from UG and the PG.

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

5.3.3 - Number of sports and cultural events / competitions organised by the institution

5

File Description	Documents
Report of the event	No File Uploaded
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The activities of association include:

1. **Alumni Meet** An Alumni Meet is organised every year by the alumni association. The batch completing 25 years organises the function along with get together.

2. **Alumni Support** The association supports many activities every year that includes fresher's welcome program and activities during the annual gathering, sports trophy and technical competition.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://gcoeamt.almaconnect.com/

5.4.2 - Alumni's financial contribution during the year

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The Board of Governors (BoG) is vested with powers to frame the policies for overall development, administration, finance and academics. The BoG is supported with other statutory bodies as defined by UGC for autonomous institutes. These bodies include Academic Council (Senate), Finance Committee (FC), Building Works Committee (BWC), Academic Program Evaluation Committee (APEC), Subject Boards (BoS) and Department Faculty Board (DFB). In each of the above committees, the faculty members are nominated and are involved in decision making. BoG is very keen to see that the various programs have been designed and implemented in consultation with all the stake holders and so also with the expert guidance of faculty from IIT, NIT and industrial experts. The management and administration are supportive to the staff and students in order to achieve their goals. The institute has well documented financial procedure and rules. Sufficient funds are available in the form of its own deposits, State Govt. grant (salary) and funding agencies. The institute has developed various policies in order to align institutional progress with vision and mission.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.gcoea.ac.in/?page=NDU=&name=Boards%20of%20Governor%E2%80%99s

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The Board of Governors takes the policy decisions. All the statutory and non-statutory committees are constituted as per the UGC guidelines for autonomy. The meetings are conducted regularly and the minutes are well recorded. All these committees derive inputs from stake holders, viz., internal faculty, staff, students, University, Directorate, alumni, faculty experts from outside, Industries, Research Organizations etc. Academic activities are also audited by internal and external committees. Periodic feedbacks are obtained from students, parents, alumni, employers etc for enabling overall improvement of the college. The college has also framed academic rules under Autonomy. This college practices participative management at various levels. Various positions, namely, Dean (Planning and Administration), Dean (Academics), Dean (R&D) Dean (QA), Dean (IIIC and TPO), Dean (Students welfare), Dean (Corporate relations), Planning and evaluation committee, Gymkhana Managing Committee, Library Committee, Faculty Advisors for student activities, Coordinators, Purchase Committee, Electrical Maintenance In-charge, Water Maintenance In-charge, Hostel wardens, Rector, Security In-charge, Canteen In-charge, Heads of Departments, Grievances Committees for students, supporting staff, faculty, Women's Grievance Cell, Anti Ragging Committee, Garden Committee, Training and Placement Committee, Campus Cleaning Committee, etc. are available and working is very smooth.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The Institute has decided the strategic goals in accordance with the Vision, Mission, quality policy and core values. The following are the broader areas of activities.

1 Industry Institute Interaction

2 Placement, Internship and Career Guidance

3 Financial Planning and Good Governance

4 Physical Infrastructure Faculty and Staff

5 Trainings Teaching Learning and Evaluation Process

6 Entrepreneurship

7 Financial Management

8 Research Development and Innovation

9 Quality Assurance

10 Testing and Consultanc

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Service rules, procedures, recruitment and promotional policies are governed by Maharashtra Civil Services Rules and government norms revised from time to time. Facility of upward movement to the higher post under time scale is available for faculty as well as technical and non-technical supporting staff. Grievance

redressal committees for faculty, supporting staff, women, students and SC/ST faculty and staff are nominated and working in the institute. These committees are responsible for timely clearing of relevant cases. The link to documentary evidences of the different committees is provided herewith.

All the statutory and non-statutory bodies that are required as per the UGC guidelines with regard to autonomy are in place. The meetings of these bodies are carried out as per the norms and procedures and minutes are displayed on the website.

The appointment of teachers are processed by public service commission through its official process and all service conditions and rules are governed by code of conduct prescribed in Maharashtra Civil Service Rules(MCSR), which are modified time to time.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.gcoea.ac.in/?page=NDQ=&name=Organization%20Structure
Upload any additional information	View File
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

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

avenues for their career development/ progression

Being a Government institute, the support for upliftment of the faculty and staff alongwith social & family security is provided as given below.

- Pension scheme as per rules
- Group Insurance Scheme
- Accidental Insurance
- Medical claim facility for employees and their dependents
- Loan for house, car, motorcycle, computer Festival advance of Rs. 10000 during the Diwali festival for Class III and Class IV employees .
- Leave Travel concession once in four year in State Home town travel allowance once every two year
- General Provident Fund and Advance/Loan availability For faculty,
- Career Advancement Scheme For supporting staff,
- time scale promotion
- Deputation for upgradation of qualifications, M.Tech. and Ph.D., for faculty under Quality Improvement Program
- Study leave for two years for other employees
- Assurance of service to the dependents of the deceased employee on compassionate grounds
- Cooperative society with contribution from the employees themselves, under which, emergency loan is available

Institute initiatives:

- Grant for Patent.
- Grant for attending conference/ seminars, publishing research paper, etc.
- Sports and cultural program for faculty and staff once in a year at R.O. level.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.gcoea.ac.in/?page=NzM=&name=R%20%20D

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

8

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)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

0

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

33

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Audit (External)

The financial audit of the Institute is carried out by Accountant General (Maharashtra-2) once in two or three years. All the grants received from State Government, other agencies like AICTE, DST, fees collected and internal revenue generated are scrupulously audited. The audit committee submits its report along with the relevant findings and objections, if any to the Institute and the Director, Technical Education. The compliance of the objections raised by the auditors is given by the Institute within the framework of rules and regulations.

Audit (Internal)

After grant of autonomous status in 2006, the Institute is retaining student's tuition fee. The same is utilized for recurring and non-recurring expenditure of the Institute. The rules and regulations set by the State Government are followed by the Institute. As per the directives of Board of Governance (BoG), the internal audit is conducted at hands of renowned chartered accountant (CA), every year. The report is submitted by auditors to the Institute along with findings and objections, if any. The office then takes efforts to regularise the objections by taking necessary corrective measures and compliance. The audit report and its compliance is tabled in the Finance Committee meeting and the BoG meeting.

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

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The institute became autonomous in 2006. In order to move towards self-sufficiency, the State Govt. Of Maharashtra allowed to retain the fee of the students admitted in the institute. Further, the institute receives Salary Grant and separate grants for construction of new facilities from the State Government. The institute has established four funds as per the directives, namely, corpus fund, staff development fund, depreciation fund and maintenance fund.

The institute receives Research and Lab development Grants from agencies like AICTE, DST, etc. Also, grants are obtained for Faculty Development Programs.

The institute also generates its internal revenue by offering testing, consultancy and continuing education program.

The preparation and approval of budget of the institute is a systematic process. The departments, deans and various offices submit requisition of funds for the ensuing financial year. The draft budget is prepared based on requisition by member secretary, finance committee and Dean (Finance). The finance committee discuss the budget in detail and recommend it with necessary revision to the Board of Governance (BoG) for approval. The budget finally approved by BoG, is followed for respective Financial Year. In case of emergent supplementary demands, similar procedure is adopted.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC cell has been in place to cater the needs outlined as per the guidelines of NAAC.

The specific initiatives undertaken during the year include the following

- The institute has prepared and implemented the GCOEA Innovation and Start-Up Policy 2022 in line with the National Innovation and Start-Up Policy 2019, where financial, administrative, and mentoring support are provided to the start-up by the students
- A start-up named Able Innovation has developed Hearing aid devices in the institute, and the institute has provided an initial grant of Rs 240000.00. This start-up has won awards ,also received grants for the development of prototypes from IIT Mandi and IIT Kanpur.
- To motivate the students regarding IPR, a workshop was arranged on 18/01/2023 by Mrs. Pooja Vishal Maulikar, Examiner of Patents and Design, Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM) Nagpur
- UGC Recommended the extension for a period of 05 years from the academic year 2020-2021 to 2024-2025 as per clause 8.1
- Two Centre of Excellence -in Internet of Things and Industrial Automation and control is established in the Institute worth one crore Rs each
- The Electrical department has been accredited by NBA from 2021-22,2022-23,2023-24 upto 30 Jun 2024
- The Civil and Mechanical Engineering department is accredited by NBA from 2022-23,2023-24,2024-25 upto 30 Jun 2025

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.gcoea.ac.in/downloads/MoM_IQA_C_01_Sep_2023.pdf

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Two examples of facilitation by IQAC are noted below:

- The New curriculum structure and syllabus is approved for B.Tech final year
Civil, Mechanical, Electrical, Electronics and

Telecommunication,Computer science,Information Technology and Instrumentation engineering in the 45th Academic council meeting held on 25 Jun 2022

- Course Outcomes for each course is mentioned in the curriculum
- Course outcomes and Programme outcomes are mapped as per the strength of the corresponding Co and PO [3 Strong 2 Moderate 1 Weak]
- Two centers of excellence were established in the Institute.
- The progress of teaching throughout the semester is monitored by conducting two meetings of Class Representatives for review and feedback.
- Curriculum is updated recently recently beginning from first year in 2019-20. Learning outcomes are clearly stated for each of the courses. For undergraduate programs, in the year 2022-23,final year batch faced the new curriculum.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.gcoea.ac.in/?page=NDM=&name=SENATE%20(MoM)

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	A. Any 4 or all of the above
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File Description	Documents
Paste the web link of annual reports of the Institution	https://www.gcoea.ac.in/?page=Nzk=&name=N AAC
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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 Women's Grievance Committee is formed as per the guidelines and instructions received from SGB Amravati University. The purpose of this committee is to avoid the incidence of sexual harassment. The members of the Women's Grievance Committee are a senior lady faculty as chairman, BoG representative, a lady advocate, a social activist, two senior staff members and student representatives. Under this cell various programs like counseling sessions, workshops, career guidance programs, mental health awareness programs, guest lectures, etc. are regularly held in the institute. The main motto behind this is to bring about gender sensitivity. An overwhelming response is always observed from the students throughout the academic year.

The programs conducted in 2022-23 include: An event on the occasion of International Women's Day, 8th March, was inaugurated by Tree Plantation Program. Chief guest Prof. Vanita Raut addressed the audience to enhance the quality of their life by giving own self a priority and considering mental health an important aspect for attaining peace on the walks of performing every role as a woman. She interacted with students and faculties. She inspired all the women to be the driver of their entity and make the best out of it.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.gcoea.ac.in/?page=NTY=&name=Institute%20Committee

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

D. Any 1of the above

File Description	Documents
Geotagged Photographs	No File Uploaded
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid waste management: - The Institute has four boys hostel and two girls hostel and residential quarters for wardens along with Principal's residence. The solid waste generated from this area is collected by sweepers. The garbage other than the solid waste are also collected by housekeeping personnel and handed over to municipal corporation personnel. The dry leaves and plant cuttings are collected at the identified location and shredded using machine. Then it is loaded into green bin composting unit. The composted manure is utilised in the gardens.

Liquid waste management: - Proper sewerage system is provided in the campus. Sewage from residential area is collected in one septic tank and overflow from the same is drain off with the help of sewer. The wastewater is disposed off into municipal sewer line.

E-waste management: - Electronic goods are put to optimum use. The irreparable electronic goods and damaged computers are written off and then sold to scrap vendor. The e-waste generated within the department buildings is collected at one location in the building and handed over to eligible contractor for the further processing.

Hazardous chemicals and radioactive waste management: - The unused UPS Batteries are exchanged with the licensed suppliers.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	No File Uploaded
Any other relevant information	No File Uploaded

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

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of the facilities	No File Uploaded
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**

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	No File Uploaded
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 undertaken by the institution

<p>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3.Environment audit 4. Clean and green campus recognitions/awards 5.Beyond the campus environmental promotional activities 	D. Any 1 of the above
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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

<p>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information:</p>	B. Any 3 of the above
---	-----------------------

Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing 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, socio-economic and other diversities (within a maximum of 200 words).

The students from all types of backgrounds and hailing from the differed strata of the society seek admission in the Institute. There are students from all the backward classes and also from the economically weaker section. The Institute encourages and practices impartial outlook towards not only the students but also the faculty and supporting staff with cultural, regional, linguistic, communal, socio-economic and other diversities. All the policies are framed in the interest of the students, faculty and staff that are aimed equally at the welfare and well being of all.

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

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

On 26th November and on 26th January every year, the public reading of the preamble of the constitution is made as per the directives of the Government. The different programs and events organized for a week at the time of birth anniversary of Dr. B.R. Ambedkar every year to infuse the awareness of

constitutional obligation, values, rights, duties and responsibilities of the citizens outlined in the constitution. On the occasion of Anti Terrorist Day (21st May), Sadbhavana Divas (20th August), National Unity Day (31st October and 19th November), the oath of respective day is taken by students, faculty and staff.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization 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 Annual awareness programmes on the Code of Conduct are organized

C. Any 2 of the above

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

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

The institute celebrates birth anniversaries of great Indian personalities. The government of Maharashtra issues a resolution every year mentioning the names of personalities

whose birth anniversaries are to be celebrated. Accordingly, the students and faculty, and staff meet in the Gymkhana hall for the function. On the occasion of Anti-Terrorist Day (21st May), Sadbhavana Divas (20th August), and National Unity Day (31st October and 19th November), the oath of the respective day is taken by students, faculty, and staff. On 26th November, the preamble to the Constitution of India is read and the oath is taken to follow the constitution of India and work for unity. On the occasion of the birth anniversary of Dr. B.R. Ambedkar, one week is celebrated by organizing various activities/events that include whole day reading, debate competition, essay competition, inviting the expert to deliver the lecture on Ambedkar's thoughts etc. All these activities are conducted and monitored by Gymkhana.

link :<https://www.gcoea.ac.in/?page=MjE5&name=Newsletter>

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practices as per naac format

1 Newsletter of the Institute

Objectives Share Information about a Institute's mission, vision, and goals. Institutes use this tool to share the growth roadmap with students. Furthermore, it provides activities held, crucial information to the stakeholders and keeps them updated about the progress of the institute

The Context 1 To meet the students engaged and updated in the latest happenings in the institute 2 To build the brand of the institute showcasing the best practices through the technical, social and all types of activities

The Practice The Newsletter is published in three quarters of the year [Jan-Apr 2022, May-Aug 2022,Sept-Dec 2022].The newsletter showcase the Institute Vision, Mission and Core values to all the stakeholders .

Evidence of the success The News letter is accessible to all the stakeholders as published on the website of theInstitute

<https://www.gcoea.ac.in/?page=MjE5&name=Newsletter>

2 Startup Idea Pitching competition

Objectives To encorage and motivate the students about the start up and innoivation idea and turn into a product

The Practice Around 45 teams participatedfrom thheneary engineering colleges

Evidence of the success

https://www.gcoea.ac.in/downloads/7_2_1_Formation_of_IIC_session_22-23_onwards-merged_compressed.pdf

File Description	Documents
Best practices in the Institutional website	https://www.gcoea.ac.in/?page=MjE5&name=Newsletter
Any other relevant information	https://www.gcoea.ac.in/downloads/7_2_1_Formation_of_IIC_session_22-23_onwards-merged_compressed.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

CoE" Industrial Internet of Things" worth 01 croreis established in the year 2020 in the Information Technology in collaboration of GCOE Amravati and Industrial partners "Diya IT Solution, Pune" and "Sensital technologies Pvt ltd,

Australia".CoE has well equipped laboratories and highly experienced industrial faculty.

CoEnamed " Industrial Control & Automation" worth 1 crore is established in the year 2020 in theInstrumentation Engineering- in collaboration with industry partner as DIVY IT Solutions, Pune and IRAI, France in the year 2020.

2]The Institution Innovation Council (IIC) is established according to the guidelines from AICTE and Ministry of Education,

Activities Start Up Idea Pitching Competition, ,MOU Signed between GCOEA and BLI Consultancy Pvt Ltd -Patents

3]SAE BAJA ACTIVITIES

The Team GCOEA won National Level Runner up Prize in SAE Baja Competition organised by SAE in association with Chitkara University Chandigarh in March 2020. The Prize Includes Trophy and Rs 125000/

The Team GCOEA achieved second runner up for Gradebility in the static event in the year of 2022. The competition was held at Pithampur, Indore

The Team GCOEA has achieved 2nd runner up in virtual run in year 2021-2022

42 students got selected in Mahindra & Mahindra Ltd -BAT

File Description	Documents
Appropriate link in the institutional website	https://www.gcoea.ac.in/?page=MjU2&name=SAE%20Baja , https://www.gcoea.ac.in/?page=MjU3&name=TIFAN , https://www.gcoea.ac.in/?page=MzE2&name=IIC
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

1. DPR for New Centre of Excellence "Digitization throughSimulation " having three areas of the state of art technology viz.E-Vehicle,ESDM ,Digital Simulation Lab Rs 5,20,00,000/-

2. Institute is celebrating the diamond jubilee year during year 2023-2024 ,varioos activities are planned during this year as follows
3. Activities planned : 1 Principal Conclave 2 International Conference 3 Global Alumni Meet 4 Student lecture series 5 Technical workshops 6 Workshop on IKS etc
4. Institute Development plan 2020-2030 is submitted to joint director for overall development plan for next 10 years highlighting Academic excellence through Learner centric outcome based education in line with NEP 2020 .Institute is implementing the NEP 2020 from Academic Year 2023-24 .
5. Scholastic developmKent through the Research ,internship,Placemen/Enterpreneurial competence,and consultancy services. is being focussed
6. The Human resource and Infrastructure development like the Academci building of Electrical Engineering contsruction is in progress as on April 2024 .
7. Institute is planned toprepare the DPR for cluster university / empowered institute