



YEARLY STATUS REPORT - 2023-2024

Part A

Data of the Institution

1.Name of the Institution

Indra Ganesan College of Engineering

- Name of the Head of the institution **Dr G Balakrishnan**
- Designation **Principal**
- Does the institution function from its own campus? **Yes**
- Phone no./Alternate phone no. **04312901621**
- Mobile no **8508688845**
- Registered e-mail **igceprincipal@gmail.com**
- Alternate e-mail **igceprincipal@gmail.com**
- Address **IG Valley (Near New Integrated Bus Terminal), Madurai Main Road. (NH-45), Manikandam**
- City/Town **Tiruchirappalli**
- State/UT **Tamilnadu**
- Pin Code **620012**

2.Institutional status

- Affiliated /Constituent **Affiliated**
- Type of Institution **Co-education**
- Location **Urban**

- Financial Status **Self-financing**
- Name of the Affiliating University **Anna University**
- Name of the IQAC Coordinator **Dr M Santhi**
- Phone No. **04312901621**
- Alternate phone No. **04312901621**
- Mobile **09944930763**
- IQAC e-mail address **iqac@igceng.com**
- Alternate Email address **igceprincipal@gmail.com**

3. Website address (Web link of the AQAR (Previous Academic Year))

<https://igceng.com/iqac/docs/aqar/AQAR-2022-23.pdf>

4. Whether Academic Calendar prepared during the year?

Yes

- if yes, whether it is uploaded in the Institutional website Web link:

<https://igceng.com/academics/Academic-Calendar.pdf>

5. Accreditation Details

| Cycle | Grade | CGPA | Year of Accreditation | Validity from | Validity to |
|----------------|-----------|-------------|-----------------------|-------------------|-------------------|
| Cycle 1 | B+ | 2.70 | 2021 | 23/02/2021 | 22/02/2026 |

6. Date of Establishment of IQAC

31/07/2019

7. Provide the list of funds by Central / State Government

UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

| Institutional/Department /Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|-----------------------------------|--|--------------------|-----------------------------|-----------------|
| Dr G Balakrishnan | Pradhan Mantri Kaushal Vikas Yojana 4.0 | Skill India | 2023-24 | 7,58,755 |

8. Whether composition of IQAC as per latest NAAC guidelines

Yes

- Upload latest notification of formation of IQAC [View File](#)

9.No. of IQAC meetings held during the year 2

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? **Yes**
- If No, please upload the minutes of the meeting(s) and Action Taken Report No File Uploaded

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

- If yes, mention the amount

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

Here are five significant contributions of the Internal Quality Assurance Cell (IQAC) of IGCE: 1. Enhancement of Academic Standards: IQAC establishes and maintains quality benchmarks for academic programs, ensuring that the curriculum, teaching methodologies, and assessment processes meet national and international standards. 2. Facilitation of Continuous Improvement: IQAC promotes a culture of continuous improvement through regular evaluations, feedback collection, and implementation of best practices, which helps in refining educational processes and outcomes. 3. Skill Development and Training Initiatives: IQAC organizes workshops, seminars, and training programs to equip both faculty and students with the latest skills and knowledge, enhancing employability and research capabilities. 4. Accreditation and Compliance: The cell plays a crucial role in coordinating and preparing for institutional accreditation processes, ensuring adherence to regulatory requirements and quality assurance frameworks established by accrediting bodies. 5. Stakeholder Engagement and Collaboration: IQAC fosters collaboration among faculty, students, industry, and alumni, facilitating feedback mechanisms that align academic offerings with market needs and promoting research and innovation partnerships.

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

| Plan of Action | Achievements/Outcomes |
|---|---|
| <p>Here are five key action points that the IQAC can implement at the beginning of the academic year to enhance quality in IGCE:</p> <ol style="list-style-type: none"> 1. Review and Update Academic Programs: Conduct a comprehensive review of existing curricula and syllabi to identify areas for improvement and ensure alignment with industry standards and technological advancements. 2. Faculty Development Programs: Organize orientation and training sessions for faculty to familiarize them with new teaching methods, assessment techniques, and research opportunities, thereby enhancing their pedagogical skills. 3. Establishment of Quality Metrics: Define clear quality indicators and metrics for academic performance, student support, and administrative processes to track progress and areas for growth throughout the year. 4. Stakeholder Feedback Mechanisms: Implement surveys and feedback tools for students, alumni, and industry partners to gather insights on program effectiveness, curriculum relevance, and overall institutional performance. 5. Strategic Planning Meetings: Convene meetings with academic and administrative leaders to set goals and develop strategic plans focused on quality enhancement initiatives for the | <p>Here are five outcomes that were achieved by the Internal Quality Assurance Cell (IQAC) at the end of the academic year:</p> <ol style="list-style-type: none"> 1. Improved Academic Performance: Enhanced student performance metrics, including higher pass rates and improved average grades, reflecting the effectiveness of revised curricula and teaching methods. 2. Increased Accreditation Success: Successful completion of accreditation processes with favorable assessments from accrediting bodies, demonstrating adherence to quality standards and institutional improvement. 3. Strengthened Faculty Competence: Evidence of enhanced faculty capabilities through professional development participation, leading to improved instructional quality and increased scholarly output. 4. Enhanced Student Satisfaction: Positive feedback from student surveys indicating high levels of satisfaction with academic services, resources, and overall educational experience, showcasing effective support systems. 5. Active Industry Collaboration: Established or strengthened partnerships with industry stakeholders, leading to internships, collaborative research projects, and job placement opportunities for |

forthcoming academic year.

students, enhancing overall employability and industry relevance.

13. Whether the AQAR was placed before statutory body?

Yes

- Name of the statutory body

| Name | Date of meeting(s) |
|-------------------------|--------------------|
| Govering Council | 13/03/2024 |

14. Whether institutional data submitted to AISHE

Part A

Data of the Institution

| | |
|--|---|
| 1.Name of the Institution | Indra Ganesan College of Engineering |
| • Name of the Head of the institution | Dr G Balakrishnan |
| • Designation | Principal |
| • Does the institution function from its own campus? | Yes |
| • Phone no./Alternate phone no. | 04312901621 |
| • Mobile no | 8508688845 |
| • Registered e-mail | igceprincipal@gmail.com |
| • Alternate e-mail | igceprincipal@gmail.com |
| • Address | IG Valley (Near New Integrated Bus Terminal), Madurai Main Road. (NH-45), Manikandam |
| • City/Town | Tiruchirappalli |
| • State/UT | Tamilnadu |
| • Pin Code | 620012 |
| 2.Institutional status | |
| • Affiliated /Constituent | Affiliated |
| • Type of Institution | Co-education |
| • Location | Urban |
| • Financial Status | Self-financing |
| • Name of the Affiliating University | Anna University |

| | | | | | |
|--|---|----------------|-----------------------------|---------------|-------------|
| • Name of the IQAC Coordinator | Dr M Santhi | | | | |
| • Phone No. | 04312901621 | | | | |
| • Alternate phone No. | 04312901621 | | | | |
| • Mobile | 09944930763 | | | | |
| • IQAC e-mail address | iqac@igceng.com | | | | |
| • Alternate Email address | igceprincipal@gmail.com | | | | |
| 3.Website address (Web link of the AQAR (Previous Academic Year)) | https://igceng.com/iqac/docs/aqar/AQAR-2022-23.pdf | | | | |
| 4.Whether Academic Calendar prepared during the year? | Yes | | | | |
| • if yes, whether it is uploaded in the Institutional website Web link: | https://igceng.com/academics/Academic-Calendar.pdf | | | | |
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| Cycle | Grade | CGPA | Year of Accreditation | Validity from | Validity to |
| Cycle 1 | B+ | 2.70 | 2021 | 23/02/2021 | 22/02/2026 |
| 6.Date of Establishment of IQAC | | | 31/07/2019 | | |
| 7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc., | | | | | |
| Institutional/Department /Faculty | Scheme | Funding Agency | Year of award with duration | Amount | |
| Dr G Balakrishnan | Pradhan Mantri Kaushal Vikas Yojana 4.0 | Skill India | 2023-24 | 7,58,755 | |
| 8.Whether composition of IQAC as per latest NAAC guidelines | | | Yes | | |
| • Upload latest notification of formation of IQAC | | | View File | | |

| | | |
|---|------------------|--|
| 9.No. of IQAC meetings held during the year | 2 | |
| <ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? | Yes | |
| <ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report | No File Uploaded | |
| 10.Whether IQAC received funding from any of the funding agency to support its activities during the year? | No | |
| <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>Here are five significant contributions of the Internal Quality Assurance Cell (IQAC) of IGCE: 1. Enhancement of Academic Standards: IQAC establishes and maintains quality benchmarks for academic programs, ensuring that the curriculum, teaching methodologies, and assessment processes meet national and international standards. 2. Facilitation of Continuous Improvement: IQAC promotes a culture of continuous improvement through regular evaluations, feedback collection, and implementation of best practices, which helps in refining educational processes and outcomes. 3. Skill Development and Training Initiatives: IQAC organizes workshops, seminars, and training programs to equip both faculty and students with the latest skills and knowledge, enhancing employability and research capabilities. 4.Accreditation and Compliance: The cell plays a crucial role in coordinating and preparing for institutional accreditation processes, ensuring adherence to regulatory requirements and quality assurance frameworks established by accrediting bodies. 5. Stakeholder Engagement and Collaboration: IQAC fosters collaboration among faculty, students, industry, and alumni, facilitating feedback mechanisms that align academic offerings with market needs and promoting research and innovation partnerships.</p> | | |
| 12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year | | |

| Plan of Action | Achievements/Outcomes |
|---|--|
| <p>Here are five key action points that the IQAC can implement at the beginning of the academic year to enhance quality in IGCE:</p> <ol style="list-style-type: none"> 1. Review and Update Academic Programs: Conduct a comprehensive review of existing curricula and syllabi to identify areas for improvement and ensure alignment with industry standards and technological advancements. 2. Faculty Development Programs: Organize orientation and training sessions for faculty to familiarize them with new teaching methods, assessment techniques, and research opportunities, thereby enhancing their pedagogical skills. 3. Establishment of Quality Metrics: Define clear quality indicators and metrics for academic performance, student support, and administrative processes to track progress and areas for growth throughout the year. 4. Stakeholder Feedback Mechanisms: Implement surveys and feedback tools for students, alumni, and industry partners to gather insights on program effectiveness, curriculum relevance, and overall institutional performance. 5. Strategic Planning Meetings: Convene meetings with academic and administrative leaders to set goals and develop strategic plans focused on quality | <p>Here are five outcomes that were achieved by the Internal Quality Assurance Cell (IQAC) at the end of the academic year:</p> <ol style="list-style-type: none"> 1. Improved Academic Performance: Enhanced student performance metrics, including higher pass rates and improved average grades, reflecting the effectiveness of revised curricula and teaching methods. 2. Increased Accreditation Success: Successful completion of accreditation processes with favorable assessments from accrediting bodies, demonstrating adherence to quality standards and institutional improvement. 3. Strengthened Faculty Competence: Evidence of enhanced faculty capabilities through professional development participation, leading to improved instructional quality and increased scholarly output. 4. Enhanced Student Satisfaction: Positive feedback from student surveys indicating high levels of satisfaction with academic services, resources, and overall educational experience, showcasing effective support systems. 5. Active Industry Collaboration: Established or strengthened partnerships with industry stakeholders, leading to internships, collaborative research projects, and job placement opportunities for students, enhancing overall employability and industry |

| | |
|---|--------------------|
| enhancement initiatives for the forthcoming academic year. | relevance. |
| 13. Whether the AQAR was placed before statutory body? | Yes |
| <ul style="list-style-type: none"> Name of the statutory body | |
| Name | Date of meeting(s) |
| Governing Council | 13/03/2024 |
| 14. Whether institutional data submitted to AISHE | |
| Year | Date of Submission |
| 2023-24 | 20/01/2025 |
| 15. Multidisciplinary / interdisciplinary | |
| <p>Multidisciplinary draws on knowledge from different disciplines but stays within their boundaries. Inter disciplinarily analyzes, synthesizes and harmonizes links between disciplines into a coordinated and coherent whole. Initially, the funding bodies were the one which demanded for interdisciplinary research. Now, Industry, Government and engineering professional education also demands interdisciplinary education and Projects. Engineering graduates are expected to be technically competent in their discipline/ domain. It is no longer possible for any one discipline to address all the problems, issues, or questions associated with these challenges single- handedly.</p> <p>Interdisciplinary knowledge helps is essential in aligning the students towards the current industrial trends where multitasking is a common routine and in reducing the gap between academic institutions and industries. It helps the students to expand their knowledge boundaries and helps in innovating new ideas leading to new products/process. Knowing the need for multidisciplinary/ interdisciplinary knowledge among engineering students, the AICTE and Anna University, has introduced Credit-Based Choice System (CBCS) for students where students can choose interdepartmental subjects based on their interests. The Open Elective system introduced mandates the students to mandatorily choose subjects pertaining to other disciplines based on the students' interest. With the understanding that Interdisciplinary projects can only lead to real-time applications, the following</p> | |

points were suggested by IQAC for the implementation in the forthcoming year. 1. Importance is given for experiential and practical learning, which will provide in-depth knowledge for the students. 2. MOOC Courses are insisted among students, which will help them to gain broader knowledge in various fields and also develop life-long learning through self-paced learning schemes. 3. All the faculty members are mandated to complete minimum of one NPTEL/ Swayam Course or any other MOOC course provided with certification, within one academic year. 4. Open-Elective courses are wisely chosen, which shall not only focus on recent updated technical topics, but also on Quality/ Entrepreneurship/ Ethics/ Problem solving and Sustainable Environment. 5. Research Methodology is introduced by Anna University in Regulation 2021 for all specialization. 6. Theory and labs can be integrated into project-based learning by laboratories. This supports the difficult and complex interdisciplinary experiments through project-based easy learning approaches. 7. Advanced expert lectures/ Industrial visits should be organized in large numbers to enhance experiential learning and interdisciplinary learning. 8. For experiential learning, participative learning and problem-solving methodologies, Tinkering Lab can be established within the campus where interested, innovative minds can come together in one roof and work with the recent technology to provide a viable solution to the existing problems/ invent new products. 9. Mini- projects should be mandated before all students enter final year of their graduation course. Final year projects are real time and all students are insisted to be in-house interdisciplinary projects. 10. The best project of each department will be funded by the Indra Ganesan Trust. 11. Students are motivated to take part in Project exhibits and Hackathons conducted worldwide. 15. Awareness program on IPR and Entrepreneurship (EDC) are provided so that the students are nourishing their start-up ideas. NSS activities are conducted extensively.

16. Academic bank of credits (ABC):

The key purpose of Academic Bank of Credits ABCs, is to help transfer /redeem credits awarded to a student for one program from an institution to another institution upon students consent. Credit transfer is the key to successful study mobility. This is implemented through National Academic Depository (NAD) which is an initiative by MHRD to provide a 24X7 online depository to Academic institutions to store and publish their academic awards. The digital depository not only ensures easy access to and retrieval of an academic award but also validates and guarantees its authenticity and safe storage. By allowing students to earn

credits from a variety of HEIs registered under this scheme as well as through SWAYAM, an online repository of courses, the ABC Regulations aim to support blended learning. According to Anna University Regulations 2021, the students can take SWAYAM Courses, as per their requirement instead of the elective course of the same credit. All the degree certificates of the previous batches are scanned and stored in hard disc which can later be uploaded in the ABC. Faculty members are motivated to prepare videos of their lecture presentation of the difficult concepts and upload the same in the institutions YouTube channel. The institution encourages faculty members to submit books and book chapters with ISBN. Indra Ganesan College of Engineering is an affiliated institution and hence provided with the freedom to design our assignments and reading materials. All the faculty members are given complete freedom to adopt various pedagogical approaches such as flipped classroom, Quiz, Case studies, Flash cards, peer learning etc, to improve the learning level of the students. Through LMS, these materials are updated in the institutions website so that the students get benefited.

17.Skill development:

3. Skill development: In order to improve the skill set of the students and to make them job ready, various skill development activities were proposed and conducted. 1. Various certificate courses offered by NPTEL- SWAYAM, Intellipad, and NASSCOM are introduced to the students to improve their skill set. 2. Faculty members are given freedom, to choose and attend any course of their choice that would either improve their technical skills or Managerial skills. 3. Anna university under R2021, offers the following skill development courses starting from first year of the graduation programme. English Laboratory-I Sem Communication Laboratory / Foreign Language - II Sem Professional Development - III Sem. Also, Summer internship is mandated for the students replacing the laboratory courses in the VII Semester, to equip the students with the technological skills prevailing in the Industries and make them job ready. 4. Also, Summer internship is mandated for the students replacing the laboratory courses in the VII Semester, to equip the students with the technological skills prevailing in the Industries and make them job ready. 5. In addition to the technical skills, in order to enhance the soft skills, students are involved in organizing and coordinating intra and inter- departmental events. 6. Workshops and Vocational training based on the specialization and interest of the students are provided. 7. Government is taking steps to improve the skillset of the future workforce, through NAAN MUDHALVAN and

Naalaiya Thiran portals. 8. The second year students were provided with training in MS office through NAAN MUDHALVAN. 9. The third year students were provided with training in various recent technologies like cyber security, AV/ VR, Industry 4.0 etc. 10. The final year Students were provided with NALAIYA THIRAN project session instead of one elective course. The students were made to complete and submit project in their chosen domain. 11. The National Association of Software and Service Companies (NASSCOM) is an Indian non- governmental trade association and advocacy group, focused mainly on the technology industry of India. NASSCOM is providing certificate courses to Reskill and Upskill India's workforce to ensure talent is Future Ready in terms of New Age Skills and Jobs and to make India a global hub for Digital Talent. Out students were motivated to take up courses from NASSCOM careers. 12. In addition, funding from MSME is received to incubate, new project/product ideas of students.

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

The NEP 2020 recommends the incorporation of the Indian Knowledge Systems (IKS) into curriculums at all levels of education. IKS was being offered as a non-credit course in academic institutions, in the past years. In order to utilize the vast repository of ancient knowledge, and since these courses can in still pride among our youth, AICTE has decided to make these courses as Mandatory courses. 1. The faculty members are required to attend a mandatory induction program and periodic refresher courses for their continued professional advancement. 2. According to Anna University R2021, Heritage of Tamils , Tamils and Technology are included as one credit paper in the first and Second semesters respectively. 3. Also, Well Being with traditional practices(Yoga, Ayurveda and Siddha) is included as one in the list of mandatory courses, with zero credit. 4. The students and faculty members are provided with yoga training, which can promote both healthy body and mind. 5. Yoga competitions are also conducted to uphold the interest of the students in these traditional practices. 6. Free Ayurveda medical camps are organized for our students, faculty members and general public with the support of Indra Ganesan Institute of Naturopathy and Yogic Science. 7. Even though the medium of teaching is English, it is supported with vernacular language for better understanding of the concepts and for maximum knowledge transfer. 8.NPTEL courses in vernacular languages are promoted among students.

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

Outcome Based Education is a concept of connecting the entire education system to outcomes/ Goals. For students, goals for each course are predefined in the syllabus by the affiliating university and decimated to the students. By the end of the course, the students are expected to achieve the set outcomes. This is assessed through Assessments, Assignments, Case- studies etc. During elective selection, preference is given for employment- oriented course. ICT enabled lectures, for a minimum of 50% of the curriculum, are mandated, inorder to facilitate effective understanding of the concepts. Our students are introduced with online certificate programs offered by various Government and non-Government organizations like, NAASCOMM, NPTEL- SWAYAM, Intellipad, Sololearn, Udemy etc., which help the students in acquiring knowledge in the latest domains and in their placements. Many of our students are attending and completing these courses with interest. The students are instructed to take real time applications as their project work and thereby, provide a viable solution to the prevailing societal problems. During the project selection, the students are motivated to transform their completed mini projects into major final year projects and the major projects should be either patented or published in a journal. Faculty members are the backbone of an institution and knowledge transfer can happen from faculty members to students easily, faculty members of our institution are provided with various Seminars/ webinars/ workshop/ Faculty development programs on Outcome Based Education. To ensure OBE in every activity, Outcome based approach is incorporated in our day to day activities. In this regard, the faculty members who attend FDPs, Workshops etc, are insisted to give a presentation of the same to the other faculty members of the department/ institute depending upon the content. Reports collected from students on Industrial visits also help to understand and analyze the outcome from such activities.

20.Distance education/online education:

Distance / Online education is promoted to provide knowledge on Pedagogy, Andragogy, Technology etc., when the learner is not able to be physically present at the learning spot (College). To keep up the spirit of learning, the government has taken many initiatives with the help of MHRD. NPTEL/ Swayam Courses are offered free of cost, so that the students and faculty fraternity acquire in-depth knowledge. Also the certifications for the courses are available at a minimum cost. Our college has an active NPTEL Local Chapter, through which the Institution,

motivates the students to attend NPTEL/ Swayam Courses by providing the Registration fees for the subsequent NPTEL courses, For those who get a minimum of one certificate. Faculty members are mandated to complete one NPTEL Course per Academic year in their domain. Also, Professors and Associate Professors are mandated to complete one technical course and one course of Leadership/ Accreditation etc. in one academic year. Courses through NASSCOM and other Certifying agencies are promoted among faculty members and students.

Extended Profile

1.Programme

1.1 482

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

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

2.Student

2.1 950

Number of students during the year

| File Description | Documents |
|---|---------------------------|
| Institutional Data in Prescribed Format | View File |

2.2 417

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

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

2.3 117

Number of outgoing/ final year students during the year

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

| 3.Academic | |
|---|---------------------------|
| 3.1 | 97 |
| Number of full time teachers during the year | |
| File Description | Documents |
| Data Template | View File |
| 3.2 | 97 |
| Number of sanctioned posts during the year | |
| File Description | Documents |
| Data Template | View File |
| 4.Institution | |
| 4.1 | 43 |
| Total number of Classrooms and Seminar halls | |
| 4.2 | 9564417.00 |
| Total expenditure excluding salary during the year (INR in lakhs) | |
| 4.3 | 521 |
| Total number of computers on campus for academic purposes | |

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Anna University's curriculum and syllabus are effectively communicated to students, alongside clear objectives and outcomes for each course. An academic calendar, aligned with the university's schedule, is shared with both students and faculty. At the start of each semester, course assignments, timetables, and comprehensive course files are prepared. These files include essential materials like the syllabus, lesson plans, lesson notes, a question bank, and the program's objectives and outcomes.

To assess student understanding, three unit tests and two model exams are conducted for theory courses, along with one model practical exam. Instructors enhance traditional teaching methods, such as board and chalk, by utilizing LCD projectors and Smart Boards to incorporate multimedia, including pictures and videos. Courses that require demonstrations are taught in laboratory settings to improve comprehension. Additionally, seminars and guest lectures enrich the learning experience, while industrial visits and opportunities for In-Plant Training and internships provide practical exposure.

Regular class committee meetings are held to track the progress of theory and lab courses relative to lesson plans. Students and faculty also have remote access to e-journals and e-books, as well as DELNET resources available in the library.

| File Description | Documents |
|-------------------------------------|---|
| Upload relevant supporting document | View File |
| Link for Additional information | https://igceng.com/igac/aqar/2023-2024/c1/1.1.1.pdf |

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

At the start of each semester, an academic calendar is created based on the schedule released by Anna University and shared with faculty and students. This schedule details key dates, including the start of the induction program, inaugural classes, the last working day, test dates, attendance entry deadlines, and university exam dates for both practical and theory components. To ensure the requisite number of working days, specific Saturdays are also designated as working days. Additionally, the re-opening date for the next semester is included to aid in planning.

Separate academic schedules are released for UG higher semesters, UG first-year, PG higher semesters, and PG first-year students due to differences in admission dates. The academic calendar encompasses all information from the academic schedule as well as details about meetings, events, celebrations, and functions. Copies of the calendar are posted on department notice boards and the college website.

To monitor student progress, three unit tests and two model

examinations for theory courses, along with one model practical exam, are conducted prior to the university exams. Unit tests last for one and a half hours, while model exams are three hours long. Students who are absent or fail must take a retest.

| File Description | Documents |
|-------------------------------------|---|
| Upload relevant supporting document | View File |
| Link for Additional information | https://igceng.com/igac/agar/2023-2024/c1/1.1.2.pdf |

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year.

Academic council/BoS of Affiliating University

Setting of question papers for UG/PG programs

Design and Development of Curriculum for Add on/ certificate/ Diploma Courses

Assessment /evaluation process of the affiliating University

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Details of participation of teachers in various bodies/activities provided as a response to the metric | View File |
| Any additional information | View File |

1.2 - Academic Flexibility

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

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

12

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

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

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

18

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Brochure or any other document relating to Add on /Certificate programs | View File |
| List of Add on /Certificate programs (Data Template) | View File |

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

563

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Details of the students enrolled in Subjects related to certificate/Add-on programs | View File |

1.3 - Curriculum Enrichment

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

The Gender Women Empowerment Cell at the institution focuses on promoting the welfare of female faculty and students. The cell organizes programs to develop leadership skills in women and ensures equal opportunities for both genders in admissions, employment, training programs, sports, cultural events, and club memberships related to academic, co-curricular, and

extracurricular activities.

The institution also emphasizes environmental sustainability through various courses:

* "OCE551 - Air pollution & Control Engineering" teaches students about the importance of preserving the environment. * "CE6703 - Water Resources and Irrigation Engineering" and "EN8592 - Wastewater Engineering" focus on sustainability and the impact of human activities on the environment. * "GE-6351- Environmental science and Engineering" and "ME6003 - Renewable sources of Energy" explore the relationship between nature and human practices.

To promote human values and professional ethics, the institution offers courses such as:

* "GE8076- Professional Ethics in Engineering" to create awareness about human values and professional ethics. * "MG8091-Entrepreneurship Development" to understand the importance of ethics in social and professional life.

The Anti-Ragging Committee is responsible for addressing ragging-related issues. Awareness campaigns have been successful in preventing ragging incidents, with no cases reported so far.

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

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

35

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| Programme / Curriculum/ Syllabus of the courses | View File |
| Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses | View File |
| MoU's with relevant organizations for these courses, if any | View File |
| Institutional Data in Prescribed Format | View File |

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

560

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| List of programmes and number of students undertaking project work/field work/ /internships (Data Template) | View File |

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders
Students Teachers Employers Alumni

A. All of the above

| File Description | Documents |
|---|---|
| URL for stakeholder feedback report | https://igceng.com/igac/aqar/2023-2024/c1/1.4.1.2.pdf |
| Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management | View File |
| Any additional information | View File |

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| URL for feedback report | https://igceng.com/naac/fba-atr.php |

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

417

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

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

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

417

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

2.2 - Catering to Student Diversity

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

Bridge Course Overview

Our institution offers a Bridge Course aimed at enhancing

students' academic experiences through interactions with a diverse array of professionals, including experts, academicians, industrialists, psychologists, activists, doctors, and social workers. These sessions focus on essential soft and life skills, making attendance vital for students seeking to improve their understanding of future opportunities.

Advanced and Slow Learners

Students will be classified as advanced or slow learners based on internal assessments. Advanced learners will receive targeted training in English proficiency, communication skills, mock interviews, group discussions, and aptitude tests. Conversely, slow learners will engage in structured study sessions, dedicating half an hour to studying followed by a half hour for assessments.

Co-curricular and Extracurricular Activities

We encourage participation in workshops, seminars, sports, and cultural events hosted by other institutions, as well as similar programs organized by our college. These activities promote skill development and broaden knowledge.

Mentor System and Weekly Meetings

Mentees will meet every Friday to discuss college events and provide feedback, which will be submitted to the Principal.

Weekly Attendance Management

The Class Coordinator manages weekly attendance records, emphasizing regular participation to support students' engagement in their engineering education and prevent attendance issues. The mentor system fosters accountability among students in this regard.

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

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

| | |
|--------------------|--------------------|
| Number of Students | Number of Teachers |
| 950 | 97 |

| | |
|----------------------------|---------------------------|
| File Description | Documents |
| Any additional information | View File |

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

Student Development Initiatives

1. ****Internships:**** Our students participate in internships to gain valuable real-world experience through a "Learn while Doing" approach. This exposure helps them grasp the industry's fundamental framework and understand corporate expectations, enabling them to tackle challenges with confidence.

2. ****DELNET:**** Students have access to DELNET, an online digital learning platform that facilitates remote access to resources, enhancing their educational experience.

3. ****Language Lab:**** Our state-of-the-art language lab is equipped with computers, software, and headphones to improve students' communication skills effectively.

4. ****Memoranda of Understanding (MoUs):**** We have established MoUs with various industries that facilitate knowledge exchange. Industry experts frequently engage with our students, sharing valuable insights, while students visit these industries to learn about expectations firsthand.

5. ****Technical Aptitude Training Session (TATS):**** Incorporated into the timetable, TATS focuses on aptitude, group discussions, and logical and verbal reasoning to prepare students for competitive exams and placements.

6. ****Industrial Visits:**** We organize annual industrial visits to provide students with practical knowledge and insights into the industrial landscape, enhancing their employability skills.

7. ****Project Work:**** Students are encouraged to incorporate current trends in their projects and to publish their findings in reputable journals, fostering a culture of research and

innovation.

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| Link for additional information | https://igceng.com/igac/agar/2023-2024/c2/2.3.1_23-24.pdf |

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

Advanced Learning Aids

We utilize various advanced learning aids to enhance students' understanding of Engineering concepts:

1. **LCD Projectors:** Engaging PowerPoint presentations and images effectively convey complex ideas. A single picture can represent hundreds of words, and different perspectives can be shown to aid comprehension.
2. **Smart Boards:** Single videos are equivalent to hundreds of pictures, facilitating a deep understanding of fundamental concepts. Students can also participate through real-time marking and highlighting.
3. **Simulations:** Faculty-led exercises encourage students to participate in simulations, fostering a "Learn by Doing" approach. This hands-on mode of delivery stimulates student interest.
4. **YouTube Channel:** Each department has its own YouTube channel, uploading video lectures by faculty members to explain complex Engineering concepts.
5. **Interactive Software:** The Communication Skills Lab features interactive software that connects students through hardware devices like microphones and headphones. This enables students to improve their English and communication skills.
6. **DELNET, NPTEL, and Naan Mudhalvan:** Remote access to DELNET resources, NPTEL certification courses, and the Naan Mudhalvan Value Added Course facilitate a well-rounded learning experience for students.

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | No File Uploaded |
| Provide link for webpage describing the ICT enabled tools for effective teaching-learning process | View File |

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

2.3.3.1 - Number of mentors

97

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

2.4 - Teacher Profile and Quality

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

97

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

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

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

35

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

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

2.4.3.1 - Total experience of full-time teachers

8

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

2.5 - Evaluation Process and Reforms

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

Evaluation and Support System

To ensure our students are well-prepared for exams, we follow a structured approach:

1. ****Internal Assessments:**** All internal assessment schedules (CAT I, CAT II, and CAT III) are outlined in the academic calendar. 2. ****Question Banks and Key Points:**** University questions with answers are compiled and distributed. Key points for evaluation are discussed before each exam, and important, frequently asked questions are highlighted. 3. ****Previous Exam Questions:**** Repeated and twisted questions from previous university exams are compiled and solved, helping students prepare for various question types.

****Transparency and Support:****

- Students can view their attendance and internal exam marks through a dedicated login on the COE web portal. - Class Coordinators maintain weekly attendance records, which are signed by students and displayed on the department notice board. - Parent-Teacher Meetings are held semesterly to discuss students' academic performance, general conduct, and attendance. - ****Special Attention for Slow Learners:**** One-on-one coaching is provided to slow learners, focusing on specific topics to ensure they receive the support needed to succeed.

| File Description | Documents |
|---------------------------------|---|
| Any additional information | View File |
| Link for additional information | https://igceng.com/igac/aqar/2023-2024/c2/2512023-24.pdf |

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

Internal Assessment System

Internal assessment is a key component of our continuous evaluation system, incorporating Class Tests, Tutorials, Assignments, Projects, and Presentations. This systematic approach ensures that assessments are conducted in an organized manner. To address examination-related grievances, we have a well-defined system in place, allowing faculty to resolve students' concerns about their internal assessment marks.

Students receive their evaluated papers—covering class tests, assignments, and projects—accompanied by detailed feedback and suggestions for improvement. Any questions regarding feedback and evaluation are promptly addressed by the respective faculty members.

****Exam Hall Arrangements:**** Seating plans for exams are posted on notice boards, and Exam Cell staff assist students in locating their assigned halls.

****Student Counseling:**** Mentors monitor factors affecting students' well-being and provide solutions to alleviate stress.

****Communication with Parents:**** Class Coordinators keep parents informed about exam schedules and any absenteeism through phone calls or messages.

****Feedback Mechanism:**** We gather immediate feedback from students post-exam, while teachers submit their evaluations of the question papers to the Exam Cell, ensuring continuous improvement in our assessment processes.

| File Description | Documents |
|---------------------------------|---|
| Any additional information | View File |
| Link for additional information | https://igceng.com/igac/agar/2023-2024/c2/2_5_1_2023-24.pdf |

2.6 - Student Performance and Learning Outcomes

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

Programme and Course Outcomes

Programme Outcomes (PO) and Course Outcomes (CO) are established by our affiliating body, Anna University, and are readily accessible on our college website, department laboratories, HOD cabins, staff rooms, notice boards, and library. At the beginning of each semester, we ensure that both students and faculty are thoroughly briefed on the PO and CO for all courses, including lab components.

To enhance familiarity with these essential terms, the PO and CO are explicitly outlined in the lab manuals. Students understand the relevance of each course, its significance for their careers, and how they can apply this knowledge in future projects.

Additionally, faculty members are encouraged to attend seminars and workshops focused on PO, PSO, CO, and their mapping, conducted by other institutions. Those who participate are expected to create PowerPoint presentations to share insights with colleagues who could not attend.

Students are made aware of the expected outcomes, including the ability to independently solve problems, comprehend machine descriptions, design and analyze systems, derive equations, and understand how input parameters influence output results. This comprehensive approach ensures that both students and instructors are aligned in their educational objectives.

| File Description | Documents |
|---|---|
| Upload any additional information | No File Uploaded |
| Paste link for Additional information | https://igceng.com/naac/c2/2.6.1.pdf |
| Upload COs for all Programmes (exemplars from Glossary) | View File |

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

Course Evaluation Policy

1. Each course of study is assessed through two components: Continuous Assessment Tests (CAT) conducted throughout the semester and a University examination at the semester's end. 2. Courses, including theory, practicals, and project work, are scored out of a total of 100 marks. 3. The CAT accounts for 40 marks, while the University examination contributes 60 marks. 4. Industrial training and seminars are evaluated exclusively through internal assessments, also totaling 100 marks. 5. The Controller of Examinations appoints both internal and external examiners for University examinations. 6. To determine internal theory marks, the College administers three tests, each worth 100 marks, which are then proportionately scaled down to 40 marks. 7. For lab internal marks, assessment includes the completion of prescribed exercises and record submissions, alongside a Model Practical Test worth 50 marks. 8. Internal Assessment Tests are held three times each semester, evaluating student achievement of all relevant Course Outcomes (COs). 9. Project work evaluation involves three reviews conducted by a review committee during the semester for internal marks, followed by an assessment from a team of internal and external examiners for the final University examination, which includes thesis submission and end-semester evaluation.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | No File Uploaded |
| Paste link for Additional information | https://igceng.com/igac/agar/2023-2024/c2/2.6.2_2023-24.pdf |

2.6.3 - Pass percentage of Students during the year

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

the year

117

| File Description | Documents |
|--|---|
| Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template) | View File |
| Upload any additional information | No File Uploaded |
| Paste link for the annual report | https://igceng.com/igac/agar/2023-2024/c2/2_6_3_2023_2024_PP.pdf |

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://igceng.com/igac/agar/2023-2024/c2/2.7.1_2023-24.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

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

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

3.08

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

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

3.1.2.1 - Number of teachers recognized as research guides

1

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

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

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

308000

| File Description | Documents |
|---|---|
| List of research projects and funding details (Data Template) | View File |
| Any additional information | No File Uploaded |
| Supporting document from Funding Agency | View File |
| Paste link to funding agency website | https://igceng.com/igac/aqar/2023-2024/c3/3.1.1.3.pdf |

3.2 - Innovation Ecosystem

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

The Computer Science and Engineering department at our college is recognized as a 'Research Centre' by Anna University. The Research & Development Cell organizes monthly research-oriented programs, such as seminars, to encourage faculty to apply for research funding from agencies like DRDO, DST, AICTE, and SERB.

The Entrepreneurship Development Cell (EDC) actively promotes entrepreneurship through a signed MoU with the Trichy District Tiny and Small Scale Industries Association (TIDITSSIA), inspiring students to consider starting their own businesses. Additionally, awareness about Intellectual Property Rights (IPR) is provided to both students and faculty, with our institution receiving an IPR award from Anna University.

The Tamil Nadu State Council for Science & Technology (TNSCST) offers financial support of Rs. 7,500 for student projects each year, helping students across all departments to secure funding for their initiatives. The college has also established MOUs with various industries to foster real-time project development.

Furthermore, a Centre of Excellence is planned for each department, enhancing resources for research and innovation. The Innovation Council (IIC) actively engages faculty and students in activities related to innovation and entrepreneurship, including ideation, problem-solving, concept development, design thinking, IPR, and project management.

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

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

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

20

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

3.3 - Research Publications and Awards

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

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

1

| File Description | Documents |
|--|---------------------------|
| URL to the research page on HEI website | Nil |
| List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template) | View File |
| Any additional information | No File Uploaded |

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

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

6

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

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

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

78

| File Description | Documents |
|---|---------------------------|
| Any additional information | No File Uploaded |
| List books and chapters edited volumes/ books published (Data Template) | View File |

3.4 - Extension Activities

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

Our college fosters a strong sense of social responsibility among students and faculty, facilitated through various clubs dedicated to community service.

1. We regularly conduct sapling plantation programs both on campus and in nearby villages, making it a tradition to plant trees during our events. 2. As part of the Swachh Bharat scheme, the NSS and YRC organize clean-up campaigns in temples, streets, and schools, while the YRC also offers medical camps to support local communities.

3. The Rotaract Club raises voter awareness, engaging new voters and encouraging civic participation.

4. We organize blood donation camps twice a year for the Government Hospital in Trichy, with over 100 students and faculty members voluntarily donating blood in August and February.

5. Each year, we hold awareness programs on the importance of higher education for rural students, highlighting the benefits and opportunities that further education can provide.

Through these initiatives, our institution continuously promotes social consciousness and community engagement.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.igceng.com/igac/aqar/2023-2024/c3/3.4.1.pdf |
| Upload any additional information | View File |

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

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

4

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

3.4.3 - Number of extension and outreach programs conducted by the institution through

NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

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

6

| File Description | Documents |
|--|---------------------------|
| Reports of the event organized | View File |
| Any additional information | No File Uploaded |
| Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template) | View File |

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

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

120

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

3.5 - Collaboration

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

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

538

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

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

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

3

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The college features 48 classrooms for various programs, with 38 classrooms equipped with LCD projectors. The auditorium and seminar halls are utilized for seminars, workshops, and symposiums. Each department has well-equipped laboratories with the latest technology, meeting curriculum standards, and supporting academic and research activities.

For computing needs, the institution offers an internet facility with a speed of 50 Mbps, accessible to 471 computers and 5 servers, all connected via LAN/Wi-Fi with specialized software. The Exam Cell manages all examination-related notices from the university, prepares circulars about exam dates, web portal

notifications, and oversees exam fee collection.

The Training and Placement Cell is dedicated to providing training and placement opportunities for students. The library houses 33,492 volumes and 9,600 titles, along with access to e-journals and e-books through DELNET, available remotely for students and faculty.

To support differently-abled students, the campus is equipped with ramps and lifts for easier access, and a scribe facility is available for those in need. Additionally, the college operates 15 buses for transportation needs and has an ambulance on standby for emergencies.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_1_1_physicalfacilities.pdf |

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

The college offers five playgrounds catering to various sports activities:

1. ****Sachin Ground:**** 179,132 sq. ft (515.09 x 347.769 ft) 2. ****Thaila Ground:**** 216,655 sq. ft (446.194 x 485.564 ft) 3. ****Ganesh Ground:**** 107,611 sq. ft (400 x 269.029 ft) 4. ****Ball Badminton Ground:**** 11,711 sq. ft (104.987 x 111.549 ft) 5. ****Shuttle Badminton Ground:**** 8,611 sq. ft (65.6168 x 131.234 ft)

The college also features a Yoga Centre of 400 sq. ft, where experienced trainers help students and faculty members enhance their skills. International Yoga Day is celebrated on June 21st each year to promote awareness and participation in public events organized by the Central Government.

Additionally, a dedicated Gymnasium of 1,536 sq. ft is available with separate facilities for men and women, featuring equipment such as treadmills, step mills, and free weights.

Culturally, the college hosts "IGNITE," an annual cultural day showcasing student talents in activities such as singing, dancing,

drama, and poetry. The Pongal festival is also celebrated, where students engage in Rangoli, Pongal preparation, and traditional games like "Uri Adi."

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/facilities/sports-and-fitness.php |

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

35

| File Description | Documents |
|---|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_1_1_physicalfacilities.pdf |
| Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template) | View File |

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

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

9564417.00

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Upload audited utilization statements | View File |
| Upload Details of budget allocation, excluding salary during the year (Data Template) | View File |

4.2 - Library as a Learning Resource

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

Name of ILMS software : Modern LIB Nature of automation (fully or partially): Fully automated Version : 2012 Year of Automation :2015

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for Additional Information | https://igceng.com/facilities/Library/ejournals.php |

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | No File Uploaded |
| Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template) | View File |

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

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

18

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

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

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

625

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

4.3 - IT Infrastructure

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

The college has a robust IT infrastructure with a 300 Mbps leased line internet connection provided by SWIBI Internet Service Provider. The campus is equipped with Ethernet switches, 5 Wi-Fi hotspots, 471 computers, and 5 servers, all connected through LAN/Wi-Fi. The IT team manages hardware, networking, website design, email, and SMS solutions. The institution uses free and open-source software recommended by AICTE, as well as proprietary software like MATLAB, STAAD-PRO, and AUTO-CAD.

The college has a 24x7 Wi-Fi facility with a firewall and MicroTik network security appliances to prevent illegal internet access. The MicroTik system provides features like firewall, VPN, gateway anti-virus, and content filtering, offering complete visibility and control over application access.

Additionally, the college provides remote access to DELNET resources, including e-journals and e-books, for students and faculty members. A biometric system is also in place for faculty members to register their attendance, ensuring accurate and efficient tracking of attendance.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_3_1_itfacilit_y.pdf |

4.3.2 - Number of Computers

521

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

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

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

4.4 - Maintenance of Campus Infrastructure

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

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

10713840.00

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Audited statements of accounts | View File |
| Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates) | View File |

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

The college maintains robust physical facilities and infrastructure through a dedicated team of Estate Officer, Supervisor, Floor Incharges, Electrician, and house-keeping team. They manage service and maintenance registers for repairs, wiring, painting, carpentry, plumbing, and housekeeping.

Departments maintain stock registers, consumables registers, and service registers for laboratory equipment, with procedures in place for new equipment installations, verifications, and payments. Regular technical support is provided by Technical Assistants, System Administrator, and Lab in-charges, with anti-virus software updates to protect computers from malware and viruses.

The library uses ILMS software and provides library cards with unique identification numbers for lending books. The library management follows accession registers, book issuing records, and gate entry registrations.

The college also maintains a reliable power supply and water system, with a 125 KVA generator, 3000-liter RO water plant, and 600 VA-30 KVA Delta UPS. The campus has a dedicated garden, maintained by the gardeners, which provides fresh produce for the hostel mess. Regular campus cleaning and tree plantation activities are conducted through social activities clubs like NSS and YRC.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_1_1_physicalfacilities.pdf |

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

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

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

621

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

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

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

0

| File Description | Documents |
|--|------------------|
| Upload any additional information | No File Uploaded |
| Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template) | No File Uploaded |

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

C. 2 of the above

| File Description | Documents |
|---|---|
| Link to Institutional website | https://www.igceng.com/igac/agar/2023-2024/c5/5_1_2_ls_2023-2024_even.pdf https://www.igceng.com/igac/agar/2023-2024/c5/5_1_2_ls_2023-2024_odd.pdf https://www.igceng.com/igac/agar/2023-2024/c5/5_1_2_ss_2023-2024_odd.pdf https://www.igceng.com/igac/agar/2023-2024/c5/5_1_2_ss_2023-2024_even.pdf |
| Any additional information | View File |
| Details of capability building and skills enhancement initiatives (Data Template) | View File |

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

886

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

886

| File Description | Documents |
|--|---------------------------|
| Any additional information | No File Uploaded |
| Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template) | View File |

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

A. All of the above

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

104

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

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

5.2.2.1 - Number of outgoing student progression to higher education

0

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

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

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

0

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

5.3 - Student Participation and Activities

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

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

20

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

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

Our college encourages student involvement in various academic and administrative committees, including the Internal Quality Assurance Cell, Student Welfare Council, Class Committee,

Department Association, Internal Compliance Committee (ICC), Grievance Redressal Committee (GRC), and Anti-Ragging Committee (ARC). Student members of these committees offer valuable insights and suggestions. Each department selects student representatives as office bearers—President, Secretary, Treasurer, and Executive members—who coordinate activities such as symposiums, intra-department contests, and celebrations for Engineer's Day.

The Student Welfare Council facilitates cultural activities organized by the Cultural Committee, which includes events like Annual Day—'IGNITE'—Pongal celebrations, and celebrations for Independence Day and Republic Day. During the "SPARK" program, a bridge course for first-year students, senior students lead motivational sessions to encourage newcomers.

Students also actively engage in social and extension activities through organizations like NSS, YRC, and the Rotaract Club. Initiatives such as blood donation camps, tree plantation drives, organ donation awareness, free medical camps, and yoga training are regularly conducted. Additionally, a clean campaign was launched by student volunteers, who set up dustbins across the campus and promoted awareness on maintaining cleanliness.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.igceng.com/igac/aqar/2023-2024/c5/5_1_2_certificates.pdf |
| Upload any additional information | No File Uploaded |

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

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

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

5.4 - Alumni Engagement

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

The "Indra Ganesan College of Engineering Alumni Nest (IGCEAN)" serves as our Alumni Association, fostering enduring connections among alumni, faculty, and current students. Each year, the association organizes an alumni meet on a date chosen by its head, with a dedicated registration application available on our college website.

In addition to annual gatherings, alumni frequently visit the institution to enrich the student experience in various ways. They contribute financially during registration and are often invited as chief guests for events such as association inaugurations and technical symposiums. Alumni share valuable industry insights and current job opportunities with students, enhancing their understanding of the job market.

The association also hosts guest lectures, seminars, and workshops led by alumni. Notably, Mr. Arun Balaji, an HR professional at JD Soft Private Limited in Chennai, actively recruits his juniors. Ms. R. Nandhini, a member from the 2015-2019 ECE batch currently working at TCS, is involved in our Internal Quality Assurance Cell (IQAC). Additionally, several alumni are employed in our college, including Mrs. Sugashini and Ms. Jenifer in CSE, and Mrs. Kokila and Mrs. P. Jency Leena in ECE, further enriching our academic environment.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.igceng.com/igac/agar/2023-2024/c5/5_4_1_AAM_2023-2024.pdf |
| Upload any additional information | View File |

5.4.2 - Alumni contribution during the year E. <1Lakhs (INR in 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 and in tune with the vision and mission of the institution

Indra Ganesan College of Engineering was founded in 2008 under the Indra Ganesan Educational & Charitable Trust, aiming to empower rural students in the Trichy district with the skills and knowledge to meet industry and societal needs. Initially offering the following undergraduate programs—Bio Medical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, and Electronics and Communication Engineering—the institution has evolved to provide eight undergraduate courses, including Mechanical Engineering, B.Tech in Agricultural Engineering, and Artificial Intelligence and Data Science. Additionally, it offers three postgraduate programs: Master of Business Administration, M.E. in Computer Science Engineering, and M.E. in VLSI Design, along with a Ph.D. in Computer Science.

Each department aligns its vision and mission with that of the institution, enhancing goal attainment. Implementing decentralized and participatory management involves faculty in decision-making and strategic planning, thereby fostering institutional growth. Since 2019, the institution has prioritized quality enhancement through the effective operations of the Internal Quality Assurance Cell (IQAC), ensuring continuous improvement in educational standards and services.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/criteria6.pdf |
| Upload any additional information | No File Uploaded |

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

To efficiently manage essential functions, the institution has established various ministries consisting of senior faculty members.

1. **Ministry of Planning & Development** oversees infrastructure, finance, budgeting, governance, and staff selection. 2. **Ministry of Academics and R&D** focuses on academic oversight, funding proposals, publications, and patents. 3. **Ministry of IQAC & Accreditation** manages IQAC proceedings, NAAC, NBA, and institutional rankings. 4. **Ministry of DoTE & Regular Activities** handles undergraduate and postgraduate approval processes, timetable coordination, ICT tools, special coaching classes, and co-curricular activities. 5. **Ministry of Approval & Admission** oversees AICTE and AU approval processes along with student admissions. 6. **Ministry of T&P and Corporate Relations** is responsible for training and placements, MOUs, and arranging resource persons for workshops and skill-based training. 7. **Ministry of Exam Cell, Library & Discipline** manages all Chief Examination Officer (COE) related activities, AU theory and practical exams, library management, and discipline matters. 8. **Ministry of Extra-curricular and Extension Activities** promotes sports, cultural events, and club activities. 9. **Ministry of Student Affairs & Scholarships** supports the mentor system, class meetings, grievance redressal, and various scholarships.

Cells and committees, comprising both teaching and non-teaching staff, ensure effective institutional functioning.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_1_1_Decentralization.pdf |
| Upload any additional information | No File Uploaded |

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The institution's strategic plan aligns closely with its vision and mission, developed by gathering input from stakeholders via IQAC meetings and feedback. The strategic objectives for 2021-2025 are as follows:

1. Enhance quality across all processes and commit to continuous improvement. 2. Achieve NBA accreditation for at least three undergraduate programs. 3. Consistently pursue a higher NIRF ranking. 4. Attain an A+ rating in NAAC accreditation. 5. Secure recognition under Section 12(B) of the UGC Act, 1956. 6. Decrease intake in B.E. Mechanical Engineering and B.E. Electrical and Electronics Engineering while introducing courses in emerging fields such as Cyber Security, Artificial Intelligence, Data Science, Robotics, Agricultural Engineering, and Biomedical Engineering. 7. Enhance industry collaboration through MOUs to generate consultancy services. 8. Establish one Center of Excellence lab with industry support in each department. 9. Submit project proposals to various funding agencies to secure grants. 10. Increase the number of publications in reputable journals. 11. Improve the teaching and learning process by effectively integrating ICT tools. 12. Foster greater student and faculty participation in professional development activities, including conferences, seminars, workshops, and training programs.

| File Description | Documents |
|--|---|
| Strategic Plan and deployment documents on the website | View File |
| Paste link for additional information | https://igceng.com/naac/c6/6_2_1_strategic_plan.pdf |
| Upload any additional information | No File Uploaded |

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

****Governing Council and Administrative Structure****

1. ****Governing Council****: The Governing Council meets annually to discuss college development, review strategic plans, and provide guidance for institutional growth. 2. ****Administrative Setup****:

The Principal oversees academic and administrative activities, including hostel and transport management. 3. ****HoDs****: Heads of Departments (HoDs) are responsible for proper functioning of classes, arranging guest lectures, and curricular and extracurricular activities.

****Roles and Responsibilities****

1. ****Teachers****: Teach both theory and practical, provide counseling, conduct exams, and maintain discipline. 2. ****Non-Teaching Staff****: Handle lab management, purchase of consumables, and maintenance of equipment. 3. ****Administrative Staff****: Maintain accounts, student scholarship information, and fees details.

****Cells and Committees****: Various cells and committees are formed to ensure efficient institution functioning.

****Recruitment and Promotion Policies****

1. ****Recruitment****: Advertisements are published in newspapers, websites, and social media. 2. ****Interview Process****: The Principal, HOD, and senior teacher form the interview panel. 3. ****Promotions****: Faculty self-appraisal forms are verified by HOD and forwarded to the Principal for final review and recommendation for promotion or increment.

| File Description | Documents |
|---|---|
| Paste link for additional information | https://igceng.com/naac/c6/6.2.1.pdf |
| Link to Organogram of the institution webpage | https://igceng.com/about/organogram.php |
| Upload any additional information | No File Uploaded |

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 | View File |
| Screen shots of user inter faces | View File |
| Any additional information | No File Uploaded |
| Details of implementation of e-governance in areas of operation, Administration etc(Data Template) | View File |

6.3 - Faculty Empowerment Strategies

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

****Faculty Development and Welfare****

The institution supports faculty development through:

1. ****OD Duty Leave****: Teachers can attend FDPs, workshops, and conferences with leave and reimbursement of registration fees. 2. ****Ph.D. Pursuit****: Part-time Ph.D. pursuit is encouraged, with required leave for research work. 3. ****Promotions and Increments****: Based on monthly self-appraisal reports. 4. ****Employee Benefits****: EPF scheme, 12 casual leaves/year, and 2 one-hour permissions/month. 5. ****Compensatory Leave****: For working on holidays. 6. ****Maternity Leave****: 6 months for lady faculty members without affecting continuous service.

****Recognitions and Rewards****

1. ****Cash Awards****: For distinguished performances in academics, research, and other activities. 2. ****Special Certificates****: 'IG STAR', 'IG Research Award', 'Maximum utilization of library', etc. 3. ****Festival Gifts****: Staff members receive gifts and sweets during festivals. 4. ****Yoga Training****: Provided to all staff members once a year. 5. ****Diversity and Inclusion****: Equal recruitment of male and female candidates in faculty positions.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_3_1_Staffwelfare.pdf |
| Upload any additional information | View File |

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

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

72

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| 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 programs organized by the institution for teaching and non-teaching staff during the year

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

2

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

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

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

104

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

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

The Performance Appraisal System for teaching faculty includes several key attributes designed to foster growth and innovation:

1. **Teaching Methodologies**: Emphasis on participatory and innovative approaches. 2. **Professional Development**: Membership in professional organizations and participation in conferences, workshops, and faculty development programs. 3. **Program Organization**: Involvement in seminars, guest lectures, and workshops. 4. **Feedback**: Gathering insights from students, Heads of Departments (HoDs), and the Principal. 5. **Community Engagement**: Active participation in community service. 6. **Research Contributions**: Publications in journals, conferences, and online platforms like NPTEL and SWAYAM. 7. **Student Outcomes**: Evaluation based on university examination results.

For non-teaching faculty, the appraisal system focuses on:

1. **Lab Management**: Expertise in lab exercises, maintenance, and organization of consumables. 2. **Professional Competence**: Assesses creativity and ability in assigned tasks, along with file and record management. 3. **Work Ethic**: Includes attendance, punctuality, discipline, and collaboration with colleagues.

The appraisal system encourages voluntary engagement in each area to enhance individual scores. Key personality traits, such as attitude, communication skills, professionalism, and relationships with co-workers and students, are evaluated by the HoD.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_3_1_Selfappraisal.pdf |
| 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 Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

****Internal and External Financial Audit Overview****

The internal financial audit process begins with department heads (HODs) proposing a budget that covers new lab installations, equipment purchases, infrastructure improvements, and funds for workshops, seminars, and conferences. This budget is submitted by the Principal to the Governing Council for approval. The accounts officer and administrative officer verify all department expenses against the approved budget. Once verified, bills are forwarded to the Principal for approval and subsequently to management for record-keeping. An annual internal audit of departmental stocks is conducted by rotating faculty members.

For external financial audits, the college employs a dedicated auditor, a member of the Governing Council, who ensures compliance with government norms. Key financial obligations such as Tax Deducted at Source (TDS), Employee Provident Fund (EPF), and professional tax payments are routinely verified by this auditor. The accounts department utilizes dedicated ERP software, offering computerized receipts for transactions, all supported by vouchers and bills. Transparency is key, with online payments, bank transactions, checks, and demand drafts facilitating secure payments. Additionally, a purchase committee evaluates and approves items based on quality and cost comparisons.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_4_1_resourcembob.pdf |
| Upload any additional information | No File Uploaded |

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

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

244200

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

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

The tuition fees set by the Government of Tamil Nadu are collected from students. First Graduate students admitted through TNEA counseling can access a 50% scholarship on total fees for four years, directly credited to the college's bank account. Full fee coverage under the Post-Matric Scholarship Scheme (PMSS) is available for all SC/ST/SCA students admitted through Government and Consortium counseling.

In addition to tuition, the institution receives indirect income from hostel fees, transport fees, alumni registration, and interest from fixed deposits. A significant portion of total income is allocated to staff salaries. For staff welfare, the institution provides incentives, increments, ex-gratia payments, and gifts. Student welfare includes funding for resource persons for orientation programs, guest lectures, and training sessions.

For financially disadvantaged students who excel in qualifying exams, the Trust offers partial or full fee coverage based on parental payment capacity. Maintenance expenses encompass building and lab upkeep, as well as vehicle and hostel maintenance, including renovations and servicing. Miscellaneous expenses cover a range of costs, including travel, taxes, audits, insurance, utilities, advertising, and administrative needs.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_4_1_resource_mob.pdf |
| Upload any additional information | No File Uploaded |

6.5 - Internal Quality Assurance System

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

****Functions and Contributions of IQAC****

The Internal Quality Assurance Cell (IQAC) plays a vital role in enhancing quality in the institution. It periodically revises its membership in line with NAAC and UGC guidelines. The IQAC is responsible for planning and monitoring various processes, offering suggestions for continuous improvement. It fosters a quality culture within the organization and conducts regular review meetings to assess the implementation of planned activities.

To ensure decentralized and participative management, the IQAC forms various cells and committees, overseeing their effective functioning. Regular feedback is collected from students and other stakeholders to identify gaps and improve processes. The IQAC holds meetings twice a year to gather insights from key stakeholders, including industry representatives, alumni, parents, students, and recruiters, which inform the institution's strategic planning.

Additionally, the IQAC organizes workshops and seminars, both within and between institutions, focusing on quality themes and promoting quality circles. This comprehensive approach ensures a dynamic and responsive quality assurance framework, enhancing the educational experience and institutional effectiveness.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/iqac/ |
| Upload any additional information | View File |

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

****Academic Administrative Audit (AAA) Committee****

The Academic Administrative Audit Committee conducts a thorough review of all plans and schedules established prior to the semester's start. At the end of each semester, the committee evaluates several key areas, including faculty course files, students' attendance registers, departmental events, and student participation in co-curricular and extracurricular activities. It also examines internal assessment question papers, answer scripts, student progress reports, weekly attendance records, mentor files, and departmental meeting minutes, providing suggestions or commendations where appropriate.

****Result Analysis Review Board (RARB)****

The Result Analysis Review Board (RARB), comprising the Principal and all Heads of Departments (HODs), focuses on student performance and strategies for enhancing academic outcomes and teaching quality. After each assessment, HODs present subject-wise and class-wise performance data and compare it with previous assessments. If performance is subpar, the board discusses necessary interventions. The committee also reviews student attendance during internal assessments. At the end of each semester, RARB examines University Examination results and provides recommendations to improve overall student performance, ensuring continuous academic enhancement.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6.5.2.pdf |
| Upload any additional information | View File |

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

A. All of the above

agencies (ISO Certification, NBA)

| File Description | Documents |
|--|---|
| Paste web link of Annual reports of Institution | https://igceng.com/naac/c6/6.5.2.pdf |
| Upload e-copies of the accreditations and certifications | View File |
| Upload any additional information | View File |
| Upload details of Quality assurance initiatives of the institution (Data Template) | View File |

INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities****7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year**

The Gender Sensitization Institution is dedicated to promoting gender awareness through various committees, including the Women Empowerment Cell, the Prevention of Sexual Harassment (POSH) Cell, and the Grievance Redressal Committee. Initiatives focused on women's empowerment and legal awareness have been implemented.

To ensure safety and security, CCTV cameras are installed in key areas, and a dedicated out-pass system operates with approval from the Head of Department and Principal. Essential facilities, including first aid kits, fire alarms, and extinguishers, are readily accessible.

Counseling services are available, with each mentor assigned to 10-12 students. Regular mentor-mentee meetings held every Friday help address personal issues such as stage fright, low self-esteem, and depression.

The college provides separate common rooms for both girls and boys, equipped with necessary amenities like first aid kits, cots, and mirrors. Additionally, a napkin incinerator is available in the girls' restroom, promoting hygiene and comfort. These initiatives reflect the institution's commitment to fostering a supportive and secure environment for all students.

| File Description | Documents |
|--|---|
| Annual gender sensitization action plan | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1.pdf |
| Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1_1.pdf |

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

A. 4 or All of the above

| File Description | Documents |
|--------------------------------|---------------------------|
| Geo tagged Photographs | View File |
| 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 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid waste management involves the collection, transportation, processing, recycling, and monitoring of waste materials. Our institution collects various solid wastes, including food scraps and paper, daily from classrooms, staff rooms, laboratories, and the canteen. Biodegradable waste is deposited in designated pits on campus, where it decomposes and is repurposed as manure for gardening. Recyclable materials are collected and sent to local recycling vendors, while sanitary napkins are disposed of through incineration.

Liquid waste management focuses on waste water from the kitchen, hostel, bathrooms, and laboratories. Solid materials in the liquid waste are mechanically removed using metal screening, and the remaining water is redirected to nourish nearby gardens and fields.

Our wastewater recycling efforts involve filtering contaminants

from the treated water produced by our RO plant, which is then disposed of in the garden and fields.

For e-waste management, computers, printers, and laboratory equipment are regularly serviced and maintained. When sufficient e-waste is collected, it is sold to authorized vendors. Additionally, functional parts from discarded equipment are salvaged and reassembled into working systems, promoting sustainability within the institution.

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

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

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

7.1.5 - Green campus initiatives include

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

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 |
|--|---------------------------|
| Geo tagged photos / videos of the facilities | View File |
| Various policy documents / decisions circulated for implementation | View File |
| Any other relevant documents | View File |

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

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following
1.Green audit 2. Energy audit
3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

B. Any 3 of the above

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

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

A. Any 4 or all of the above

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

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

IGCE constantly works upon to develop students as better citizens of the country and promote Unity in Diversity by organizing various programs. Our students participate in different festivals enthusiastically which implant the social and religious harmony in them. Yoga day, Onam and Pooja are celebrated which brings harmony among the students. IGCE celebrates the cultural and regional festivals like New- year's day, Diwali and Pongal celebrations every year. The teachers and students come in traditional wear to create a sense of unity among the students. This promotes an environment of tolerance among students from different backgrounds.

| File Description | Documents |
|--|---------------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | View File |
| Any other relevant information | View File |

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

A session on "Attitude" is organized for students to highlight the benefits of education, the consequences of being uneducated, and the importance of social and public behavior. During the bridge course, experts provide insights on legal awareness, bank loans, scholarships, health and hygiene, fire safety, human values, ethics, and environmental sustainability. Participation in Independence Day and Republic Day events is mandatory for

students, featuring activities like march pasts, patriotic songs, and poetry, along with speeches from esteemed guests on the Constitution.

Students engage in sapling plantation activities within and outside the college. Blood donation camps are another way students contribute to the community.

Courses in Environmental Engineering, Professional Ethics, Air Pollution, and Wastewater Management are integral to the curriculum. In remembrance of fallen soldiers, students pay homage by lighting candles, showering flowers, and displaying banners. Additionally, a voter awareness rally is conducted to encourage 100% voter participation and instill the importance of fulfilling constitutional duties among students.

| File Description | Documents |
|--|---|
| Details of activities that inculcate values; necessary to render students in to responsible citizens | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1_9.pdf |
| Any other relevant information | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1_9.pdf |

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff

A. All of the above

4. Annual awareness programmes on Code of Conduct are organized

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

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

Dr. APJ Abdul Kalam's birth anniversary is celebrated annually on October 15th, where students take an oath and recite his inspirational quotes. The occasion includes sapling plantation and various programs to honor his legacy. Teacher's Day is observed on September 5th, with students organizing celebrations to honor their teachers by presenting gifts and greeting cards, complemented by cultural performances.

On October 2nd, Gandhi Jayanti is marked with students dressing as Mahatma Gandhi, delivering speeches that highlight his significant contributions to Indian independence. Independence Day and Republic Day celebrations feature the hoisting of the national flag, followed by patriotic songs, dances, and poetry, with army officers, police officers, and doctors as esteemed guests.

Engineers' Day, celebrated on September 15th, includes speeches about Bharat Ratna Sir M. Visvesvaraya, the first engineer of India. The day is filled with competitions such as technical quizzes, essay writing, and elocution, encouraging students to engage with engineering principles. Additionally, students pay homage to army officials who sacrificed their lives for the nation's peace and security, honoring their bravery and dedication.

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

7.2 - Best Practices

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

Best Practice 1: Connecting Gaps for Successful Engineer:

Best Practice 2: Engineer and the society

Indra Ganesan College of Engineering acknowledge the importance of a well-rounded education that goes beyond traditional classroom teaching implies a commitment to addressing various aspects of a student's development. This could include intellectual, emotional, and social dimensions, highlighting that education extends beyond academics.

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | https://igceng.com/naac/c7/7_2_1_Bestpractices_bestpractices.pdf |
| Any other relevant information | https://igceng.com/naac/c7/7_2_1_Bestpractices_bestpractices.pdf |

7.3 - Institutional Distinctiveness

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

Our "Strategy of Coaching" is a key focus area that distinguishes our educational approach. We conduct a comprehensive bridge course covering English proficiency, communication skills, health and

hygiene, fire safety, police regulations, scholarship information, banking loans, memory enhancement, motivation to study, and the importance of education.

Daily spoken English sessions are held during the last period to improve language skills, while teachers begin each day by explaining the meanings of English words to enhance students' vocabulary. To build confidence and communication skills, students are encouraged to participate in stage events.

We arrange annual industrial visits to familiarize students with industry practices, and they attend workshops at other colleges to broaden their technical knowledge and observe effective presentation skills. Special coaching classes for slow learners and co-curricular activities for quick learners are successful initiatives we implement.

Intensive coaching is provided before all university exams, and targeted support for arrear subjects has significantly improved our graduates' success rates. Furthermore, the introduction of internal squad duties during tests has resulted in zero reported malpractices in university exams. Each year, the Principal clearly explains the do's and don'ts, as well as common exam myths, to first-year students, ensuring they are well-prepared.

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Anna University's curriculum and syllabus are effectively communicated to students, alongside clear objectives and outcomes for each course. An academic calendar, aligned with the university's schedule, is shared with both students and faculty. At the start of each semester, course assignments, timetables, and comprehensive course files are prepared. These files include essential materials like the syllabus, lesson plans, lesson notes, a question bank, and the program's objectives and outcomes.

To assess student understanding, three unit tests and two model exams are conducted for theory courses, along with one model practical exam. Instructors enhance traditional teaching methods, such as board and chalk, by utilizing LCD projectors and Smart Boards to incorporate multimedia, including pictures and videos. Courses that require demonstrations are taught in laboratory settings to improve comprehension. Additionally, seminars and guest lectures enrich the learning experience, while industrial visits and opportunities for In-Plant Training and internships provide practical exposure.

Regular class committee meetings are held to track the progress of theory and lab courses relative to lesson plans. Students and faculty also have remote access to e-journals and e-books, as well as DELNET resources available in the library.

| File Description | Documents |
|-------------------------------------|---|
| Upload relevant supporting document | View File |
| Link for Additional information | https://igceng.com/igac/aqar/2023-2024/c1/1.1.1.pdf |

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

At the start of each semester, an academic calendar is created

based on the schedule released by Anna University and shared with faculty and students. This schedule details key dates, including the start of the induction program, inaugural classes, the last working day, test dates, attendance entry deadlines, and university exam dates for both practical and theory components. To ensure the requisite number of working days, specific Saturdays are also designated as working days. Additionally, the re-opening date for the next semester is included to aid in planning.

Separate academic schedules are released for UG higher semesters, UG first-year, PG higher semesters, and PG first-year students due to differences in admission dates. The academic calendar encompasses all information from the academic schedule as well as details about meetings, events, celebrations, and functions. Copies of the calendar are posted on department notice boards and the college website.

To monitor student progress, three unit tests and two model examinations for theory courses, along with one model practical exam, are conducted prior to the university exams. Unit tests last for one and a half hours, while model exams are three hours long. Students who are absent or fail must take a retest.

| File Description | Documents |
|-------------------------------------|---|
| Upload relevant supporting document | View File |
| Link for Additional information | https://igceng.com/igac/aqar/2023-2024/c1/1.1.2.pdf |

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

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Details of participation of teachers in various bodies/activities provided as a response to the metric | View File |
| Any additional information | View File |

1.2 - Academic Flexibility

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

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

12

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

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

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

18

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Brochure or any other document relating to Add on /Certificate programs | View File |
| List of Add on /Certificate programs (Data Template) | View File |

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

563

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Details of the students enrolled in Subjects related to certificate/Add-on programs | View File |

1.3 - Curriculum Enrichment

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

The Gender Women Empowerment Cell at the institution focuses on promoting the welfare of female faculty and students. The cell organizes programs to develop leadership skills in women and ensures equal opportunities for both genders in admissions, employment, training programs, sports, cultural events, and club memberships related to academic, co-curricular, and extracurricular activities.

The institution also emphasizes environmental sustainability through various courses:

* "OCE551 - Air pollution & Control Engineering" teaches students about the importance of preserving the environment. * "CE6703 - Water Resources and Irrigation Engineering" and "EN8592 - Wastewater Engineering" focus on sustainability and the impact of human activities on the environment. * "GE-6351- Environmental science and Engineering" and "ME6003 - Renewable sources of Energy" explore the relationship between nature and human practices.

To promote human values and professional ethics, the institution offers courses such as:

* "GE8076- Professional Ethics in Engineering" to create awareness about human values and professional ethics. * "MG8091-Entrepreneurship Development" to understand the importance of ethics in social and professional life.

The Anti-Ragging Committee is responsible for addressing ragging-related issues. Awareness campaigns have been successful in preventing ragging incidents, with no cases reported so far.

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

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

35

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| Programme / Curriculum/ Syllabus of the courses | View File |
| Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses | View File |
| MoU's with relevant organizations for these courses, if any | View File |
| Institutional Data in Prescribed Format | View File |

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

560

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| List of programmes and number of students undertaking project work/field work/ /internships (Data Template) | View File |

1.4 - Feedback System

| | |
|--|----------------------------|
| 1.4.1 - Institution obtains feedback on the syllabus and its transaction at the | A. All of the above |
|--|----------------------------|

institution from the following stakeholders
Students Teachers Employers Alumni

| File Description | Documents |
|---|---|
| URL for stakeholder feedback report | https://igceng.com/igac/agar/2023-2024/c1/1.4.1.2.pdf |
| Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management | View File |
| Any additional information | View File |

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| URL for feedback report | https://igceng.com/naac/fba-atr.php |

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

417

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

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

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

417

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

2.2 - Catering to Student Diversity

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

Bridge Course Overview

Our institution offers a Bridge Course aimed at enhancing students' academic experiences through interactions with a diverse array of professionals, including experts, academicians, industrialists, psychologists, activists, doctors, and social workers. These sessions focus on essential soft and life skills, making attendance vital for students seeking to improve their understanding of future opportunities.

Advanced and Slow Learners

Students will be classified as advanced or slow learners based on internal assessments. Advanced learners will receive targeted training in English proficiency, communication skills, mock interviews, group discussions, and aptitude tests. Conversely, slow learners will engage in structured study sessions, dedicating half an hour to studying followed by a half hour for assessments.

Co-curricular and Extracurricular Activities

We encourage participation in workshops, seminars, sports, and cultural events hosted by other institutions, as well as similar programs organized by our college. These activities promote skill development and broaden knowledge.

Mentor System and Weekly Meetings

Mentees will meet every Friday to discuss college events and provide feedback, which will be submitted to the Principal.

Weekly Attendance Management

The Class Coordinator manages weekly attendance records, emphasizing regular participation to support students' engagement in their engineering education and prevent attendance issues. The mentor system fosters accountability among students in this regard.

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

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

| Number of Students | Number of Teachers |
|--------------------|--------------------|
| 950 | 97 |

| File Description | Documents |
|----------------------------|---------------------------|
| Any additional information | View File |

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

Student Development Initiatives

- 1. **Internships:**** Our students participate in internships to gain valuable real-world experience through a "Learn while Doing" approach. This exposure helps them grasp the industry's fundamental framework and understand corporate expectations, enabling them to tackle challenges with confidence.
- 2. **DELNET:**** Students have access to DELNET, an online digital learning platform that facilitates remote access to resources, enhancing their educational experience.
- 3. **Language Lab:**** Our state-of-the-art language lab is equipped with computers, software, and headphones to improve students' communication skills effectively.
- 4. **Memoranda of Understanding (MoUs):**** We have established MoUs with various industries that facilitate knowledge exchange. Industry experts frequently engage with our students,

sharing valuable insights, while students visit these industries to learn about expectations firsthand.

5. **Technical Aptitude Training Session (TATS):** Incorporated into the timetable, TATS focuses on aptitude, group discussions, and logical and verbal reasoning to prepare students for competitive exams and placements.

6. **Industrial Visits:** We organize annual industrial visits to provide students with practical knowledge and insights into the industrial landscape, enhancing their employability skills.

7. **Project Work:** Students are encouraged to incorporate current trends in their projects and to publish their findings in reputable journals, fostering a culture of research and innovation.

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| Link for additional information | https://igceng.com/igac/agar/2023-2024/c2/2.3.1_23-24.pdf |

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

Advanced Learning Aids

We utilize various advanced learning aids to enhance students' understanding of Engineering concepts:

1. **LCD Projectors:** Engaging PowerPoint presentations and images effectively convey complex ideas. A single picture can represent hundreds of words, and different perspectives can be shown to aid comprehension.

2. **Smart Boards:** Single videos are equivalent to hundreds of pictures, facilitating a deep understanding of fundamental concepts. Students can also participate through real-time marking and highlighting.

3. **Simulations:** Faculty-led exercises encourage students to participate in simulations, fostering a "Learn by Doing" approach. This hands-on mode of delivery stimulates student

interest.

4. ****YouTube Channel:**** Each department has its own YouTube channel, uploading video lectures by faculty members to explain complex Engineering concepts.

5. ****Interactive Software:**** The Communication Skills Lab features interactive software that connects students through hardware devices like microphones and headphones. This enables students to improve their English and communication skills.

6. ****DELNET, NPTEL, and Naan Mudhalvan:**** Remote access to DELNET resources, NPTEL certification courses, and the Naan Mudhalvan Value Added Course facilitate a well-rounded learning experience for students.

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | No File Uploaded |
| Provide link for webpage describing the ICT enabled tools for effective teaching-learning process | View File |

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

2.3.3.1 - Number of mentors

97

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

2.4 - Teacher Profile and Quality

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

97

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

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

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

35

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

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

2.4.3.1 - Total experience of full-time teachers

8

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

2.5 - Evaluation Process and Reforms

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

Evaluation and Support System

To ensure our students are well-prepared for exams, we follow a structured approach:

1. ****Internal Assessments:**** All internal assessment schedules (CAT I, CAT II, and CAT III) are outlined in the academic calendar. 2. ****Question Banks and Key Points:**** University questions with answers are compiled and distributed. Key points for evaluation are discussed before each exam, and important, frequently asked questions are highlighted. 3. ****Previous Exam Questions:**** Repeated and twisted questions from previous university exams are compiled and solved, helping students prepare for various question types.

****Transparency and Support:****

- Students can view their attendance and internal exam marks through a dedicated login on the COE web portal. - Class Coordinators maintain weekly attendance records, which are signed by students and displayed on the department notice board. - Parent-Teacher Meetings are held semesterly to discuss students' academic performance, general conduct, and attendance. - ****Special Attention for Slow Learners:**** One-on-one coaching is provided to slow learners, focusing on specific topics to ensure they receive the support needed to succeed.

| File Description | Documents |
|---------------------------------|---|
| Any additional information | View File |
| Link for additional information | https://igceng.com/igac/agar/2023-2024/c2/2_5_1_2023-24.pdf |

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

Internal Assessment System

Internal assessment is a key component of our continuous evaluation system, incorporating Class Tests, Tutorials, Assignments, Projects, and Presentations. This systematic approach ensures that assessments are conducted in an organized manner. To address examination-related grievances, we have a well-defined system in place, allowing faculty to resolve students' concerns about their internal assessment marks.

Students receive their evaluated papers—covering class tests, assignments, and projects—accompanied by detailed feedback and suggestions for improvement. Any questions regarding feedback and evaluation are promptly addressed by the respective faculty members.

****Exam Hall Arrangements:**** Seating plans for exams are posted on notice boards, and Exam Cell staff assist students in locating their assigned halls.

****Student Counseling:**** Mentors monitor factors affecting students' well-being and provide solutions to alleviate stress.

****Communication with Parents:**** Class Coordinators keep parents informed about exam schedules and any absenteeism through phone calls or messages.

****Feedback Mechanism:**** We gather immediate feedback from students post-exam, while teachers submit their evaluations of the question papers to the Exam Cell, ensuring continuous improvement in our assessment processes.

| File Description | Documents |
|---------------------------------|---|
| Any additional information | View File |
| Link for additional information | https://iqceng.com/iqac/agar/2023-2024/c2/2512023-24.pdf |

2.6 - Student Performance and Learning Outcomes

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

Programme and Course Outcomes

Programme Outcomes (PO) and Course Outcomes (CO) are established by our affiliating body, Anna University, and are readily accessible on our college website, department laboratories, HOD cabins, staff rooms, notice boards, and library. At the beginning of each semester, we ensure that both students and faculty are thoroughly briefed on the PO and CO for all courses, including lab components.

To enhance familiarity with these essential terms, the PO and CO are explicitly outlined in the lab manuals. Students

understand the relevance of each course, its significance for their careers, and how they can apply this knowledge in future projects.

Additionally, faculty members are encouraged to attend seminars and workshops focused on PO, PSO, CO, and their mapping, conducted by other institutions. Those who participate are expected to create PowerPoint presentations to share insights with colleagues who could not attend.

Students are made aware of the expected outcomes, including the ability to independently solve problems, comprehend machine descriptions, design and analyze systems, derive equations, and understand how input parameters influence output results. This comprehensive approach ensures that both students and instructors are aligned in their educational objectives.

| File Description | Documents |
|---|---|
| Upload any additional information | No File Uploaded |
| Paste link for Additional information | https://igceng.com/naac/c2/2.6.1.pdf |
| Upload COs for all Programmes (exemplars from Glossary) | View File |

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

Course Evaluation Policy

1. Each course of study is assessed through two components: Continuous Assessment Tests (CAT) conducted throughout the semester and a University examination at the semester's end. 2. Courses, including theory, practicals, and project work, are scored out of a total of 100 marks. 3. The CAT accounts for 40 marks, while the University examination contributes 60 marks. 4. Industrial training and seminars are evaluated exclusively through internal assessments, also totaling 100 marks. 5. The Controller of Examinations appoints both internal and external examiners for University examinations. 6. To determine internal theory marks, the College administers three tests, each worth 100 marks, which are then proportionately scaled down to 40 marks. 7. For lab internal marks, assessment includes the completion of prescribed exercises and record submissions,

alongside a Model Practical Test worth 50 marks. 8. Internal Assessment Tests are held three times each semester, evaluating student achievement of all relevant Course Outcomes (COs). 9. Project work evaluation involves three reviews conducted by a review committee during the semester for internal marks, followed by an assessment from a team of internal and external examiners for the final University examination, which includes thesis submission and end-semester evaluation.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | No File Uploaded |
| Paste link for Additional information | https://igceng.com/igac/aqar/2023-2024/c2/2.6.2_2023-24.pdf |

2.6.3 - Pass percentage of Students during the year

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

117

| File Description | Documents |
|--|---|
| Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template) | View File |
| Upload any additional information | No File Uploaded |
| Paste link for the annual report | https://igceng.com/igac/aqar/2023-2024/c2/2_6_3_2023_2024_PP.pdf |

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://igceng.com/igac/aqar/2023-2024/c2/2.7.1_2023-24.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research

projects / endowments in the institution during the year (INR in Lakhs)

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

3.08

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

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

3.1.2.1 - Number of teachers recognized as research guides

1

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

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

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

308000

| File Description | Documents |
|---|---|
| List of research projects and funding details (Data Template) | View File |
| Any additional information | No File Uploaded |
| Supporting document from Funding Agency | View File |
| Paste link to funding agency website | https://igceng.com/igac/aqar/2023-2024/c3/3.1.1.3.pdf |

3.2 - Innovation Ecosystem

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

The Computer Science and Engineering department at our college is recognized as a 'Research Centre' by Anna University. The Research & Development Cell organizes monthly research-oriented programs, such as seminars, to encourage faculty to apply for research funding from agencies like DRDO, DST, AICTE, and SERB.

The Entrepreneurship Development Cell (EDC) actively promotes entrepreneurship through a signed MoU with the Trichy District Tiny and Small Scale Industries Association (TIDITSSIA), inspiring students to consider starting their own businesses. Additionally, awareness about Intellectual Property Rights (IPR) is provided to both students and faculty, with our institution receiving an IPR award from Anna University.

The Tamil Nadu State Council for Science & Technology (TNSCST) offers financial support of Rs. 7,500 for student projects each year, helping students across all departments to secure funding for their initiatives. The college has also established MOUs with various industries to foster real-time project development.

Furthermore, a Centre of Excellence is planned for each department, enhancing resources for research and innovation. The Innovation Council (IIC) actively engages faculty and students in activities related to innovation and entrepreneurship, including ideation, problem-solving, concept development, design thinking, IPR, and project management.

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

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

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

20

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

3.3 - Research Publications and Awards

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

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

1

| File Description | Documents |
|--|---------------------------|
| URL to the research page on HEI website | Nil |
| List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template) | View File |
| Any additional information | No File Uploaded |

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

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

6

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

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

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

78

| File Description | Documents |
|---|---------------------------|
| Any additional information | No File Uploaded |
| List books and chapters edited volumes/ books published (Data Template) | View File |

3.4 - Extension Activities

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

Our college fosters a strong sense of social responsibility among students and faculty, facilitated through various clubs dedicated to community service.

1. We regularly conduct sapling plantation programs both on campus and in nearby villages, making it a tradition to plant trees during our events. 2. As part of the Swachh Bharat scheme, the NSS and YRC organize clean-up campaigns in temples, streets, and schools, while the YRC also offers medical camps to support local communities.

3. The Rotaract Club raises voter awareness, engaging new voters and encouraging civic participation.

4. We organize blood donation camps twice a year for the Government Hospital in Trichy, with over 100 students and faculty members voluntarily donating blood in August and

February.

5. Each year, we hold awareness programs on the importance of higher education for rural students, highlighting the benefits and opportunities that further education can provide.

Through these initiatives, our institution continuously promotes social consciousness and community engagement.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.igceng.com/igac/aqar/2023-2024/c3/3.4.1.pdf |
| Upload any additional information | View File |

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

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

4

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

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

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

6

| File Description | Documents |
|--|---------------------------|
| Reports of the event organized | View File |
| Any additional information | No File Uploaded |
| Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template) | View File |

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

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

120

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

3.5 - Collaboration

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

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

538

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

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

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

3

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The college features 48 classrooms for various programs, with 38 classrooms equipped with LCD projectors. The auditorium and seminar halls are utilized for seminars, workshops, and symposiums. Each department has well-equipped laboratories with the latest technology, meeting curriculum standards, and supporting academic and research activities.

For computing needs, the institution offers an internet facility with a speed of 50 Mbps, accessible to 471 computers and 5 servers, all connected via LAN/Wi-Fi with specialized software. The Exam Cell manages all examination-related notices from the university, prepares circulars about exam dates, web portal notifications, and oversees exam fee collection.

The Training and Placement Cell is dedicated to providing training and placement opportunities for students. The library houses 33,492 volumes and 9,600 titles, along with access to e-journals and e-books through DELNET, available remotely for students and faculty.

To support differently-abled students, the campus is equipped

with ramps and lifts for easier access, and a scribe facility is available for those in need. Additionally, the college operates 15 buses for transportation needs and has an ambulance on standby for emergencies.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_1_1_physical_facilities.pdf |

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

The college offers five playgrounds catering to various sports activities:

1. ****Sachin Ground:**** 179,132 sq. ft (515.09 x 347.769 ft) 2. ****Thaila Ground:**** 216,655 sq. ft (446.194 x 485.564 ft) 3. ****Ganesh Ground:**** 107,611 sq. ft (400 x 269.029 ft) 4. ****Ball Badminton Ground:**** 11,711 sq. ft (104.987 x 111.549 ft) 5. ****Shuttle Badminton Ground:**** 8,611 sq. ft (65.6168 x 131.234 ft)

The college also features a Yoga Centre of 400 sq. ft, where experienced trainers help students and faculty members enhance their skills. International Yoga Day is celebrated on June 21st each year to promote awareness and participation in public events organized by the Central Government.

Additionally, a dedicated Gymnasium of 1,536 sq. ft is available with separate facilities for men and women, featuring equipment such as treadmills, step mills, and free weights.

Culturally, the college hosts "IGNITE," an annual cultural day showcasing student talents in activities such as singing, dancing, drama, and poetry. The Pongal festival is also celebrated, where students engage in Rangoli, Pongal preparation, and traditional games like "Uri Adi."

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/facilities/sports-and-fitness.php |

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

35

| File Description | Documents |
|---|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_1_1_physical_facilities.pdf |
| Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template) | View File |

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

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

9564417.00

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Upload audited utilization statements | View File |
| Upload Details of budget allocation, excluding salary during the year (Data Template) | View File |

4.2 - Library as a Learning Resource

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

Name of ILMS software : Modern LIB Nature of automation (fully or partially): Fully automated Version : 2012 Year of Automation :2015

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for Additional Information | https://igceng.com/facilities/Library/ejournals.php |

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | No File Uploaded |
| Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template) | View File |

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

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

18

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

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

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

625

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

4.3 - IT Infrastructure**4.3.1 - Institution frequently updates its IT facilities including Wi-Fi**

The college has a robust IT infrastructure with a 300 Mbps leased line internet connection provided by SWIBI Internet Service Provider. The campus is equipped with Ethernet switches, 5 Wi-Fi hotspots, 471 computers, and 5 servers, all connected through LAN/Wi-Fi. The IT team manages hardware, networking, website design, email, and SMS solutions. The institution uses free and open-source software recommended by AICTE, as well as proprietary software like MATLAB, STAAD-PRO, and AUTO-CAD.

The college has a 24x7 Wi-Fi facility with a firewall and MicroTik network security appliances to prevent illegal internet access. The MicroTik system provides features like firewall, VPN, gateway anti-virus, and content filtering, offering complete visibility and control over application access.

Additionally, the college provides remote access to DELNET resources, including e-journals and e-books, for students and faculty members. A biometric system is also in place for faculty members to register their attendance, ensuring accurate and efficient tracking of attendance.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_3_1_itfacility.pdf |

4.3.2 - Number of Computers

521

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

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

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

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

10713840.00

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Audited statements of accounts | View File |
| Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates) | View File |

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

The college maintains robust physical facilities and infrastructure through a dedicated team of Estate Officer, Supervisor, Floor Incharges, Electrician, and house-keeping team. They manage service and maintenance registers for

repairs, wiring, painting, carpentry, plumbing, and housekeeping.

Departments maintain stock registers, consumables registers, and service registers for laboratory equipment, with procedures in place for new equipment installations, verifications, and payments. Regular technical support is provided by Technical Assistants, System Administrator, and Lab in-charges, with anti-virus software updates to protect computers from malware and viruses.

The library uses ILMS software and provides library cards with unique identification numbers for lending books. The library management follows accession registers, book issuing records, and gate entry registrations.

The college also maintains a reliable power supply and water system, with a 125 KVA generator, 3000-liter RO water plant, and 600 VA-30 KVA Delta UPS. The campus has a dedicated garden, maintained by the gardeners, which provides fresh produce for the hostel mess. Regular campus cleaning and tree plantation activities are conducted through social activities clubs like NSS and YRC.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://igceng.com/naac/c4/4_1_1_physical_facilities.pdf |

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

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

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

621

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

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

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

0

| File Description | Documents |
|--|------------------|
| Upload any additional information | No File Uploaded |
| Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template) | No File Uploaded |

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

C. 2 of the above

| File Description | Documents |
|---|---|
| Link to Institutional website | https://www.igceng.com/igac/aqar/2023-2024/c5/5_1_2_ls_2023-2024_even.pdf https://www.igceng.com/igac/aqar/2023-2024/c5/5_1_2_ls_2023-2024_odd.pdf https://www.igceng.com/igac/aqar/2023-2024/c5/5_1_2_ss_2023-2024_odd.pdf https://www.igceng.com/igac/aqar/2023-2024/c5/5_1_2_ss_2023-2024_even.pdf |
| Any additional information | View File |
| Details of capability building and skills enhancement initiatives (Data Template) | View File |

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

886

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

886

| File Description | Documents |
|--|---------------------------|
| Any additional information | No File Uploaded |
| Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template) | View File |

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

A. All of the above

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

104

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

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

5.2.2.1 - Number of outgoing student progression to higher education

0

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

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

government examinations)

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

0

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

5.3 - Student Participation and Activities

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

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

20

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

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

Our college encourages student involvement in various academic and administrative committees, including the Internal Quality

Assurance Cell, Student Welfare Council, Class Committee, Department Association, Internal Compliance Committee (ICC), Grievance Redressal Committee (GRC), and Anti-Ragging Committee (ARC). Student members of these committees offer valuable insights and suggestions. Each department selects student representatives as office bearers—President, Secretary, Treasurer, and Executive members—who coordinate activities such as symposiums, intra-department contests, and celebrations for Engineer's Day.

The Student Welfare Council facilitates cultural activities organized by the Cultural Committee, which includes events like Annual Day—'IGNITE'—Pongal celebrations, and celebrations for Independence Day and Republic Day. During the "SPARK" program, a bridge course for first-year students, senior students lead motivational sessions to encourage newcomers.

Students also actively engage in social and extension activities through organizations like NSS, YRC, and the Rotaract Club. Initiatives such as blood donation camps, tree plantation drives, organ donation awareness, free medical camps, and yoga training are regularly conducted. Additionally, a clean campaign was launched by student volunteers, who set up dustbins across the campus and promoted awareness on maintaining cleanliness.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.igceng.com/igac/agar/2023-2024/c5/5_1_2_certificates.pdf |
| Upload any additional information | No File Uploaded |

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

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

53

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

5.4 - Alumni Engagement

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

The "Indra Ganesan College of Engineering Alumni Nest (IGCEAN)" serves as our Alumni Association, fostering enduring connections among alumni, faculty, and current students. Each year, the association organizes an alumni meet on a date chosen by its head, with a dedicated registration application available on our college website.

In addition to annual gatherings, alumni frequently visit the institution to enrich the student experience in various ways. They contribute financially during registration and are often invited as chief guests for events such as association inaugurations and technical symposiums. Alumni share valuable industry insights and current job opportunities with students, enhancing their understanding of the job market.

The association also hosts guest lectures, seminars, and workshops led by alumni. Notably, Mr. Arun Balaji, an HR professional at JD Soft Private Limited in Chennai, actively recruits his juniors. Ms. R. Nandhini, a member from the 2015-2019 ECE batch currently working at TCS, is involved in our Internal Quality Assurance Cell (IQAC). Additionally, several alumni are employed in our college, including Mrs. Sugashini and Ms. Jenifer in CSE, and Mrs. Kokila and Mrs. P. Jency Leena in ECE, further enriching our academic environment.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.igceng.com/igac/aqar/2023-2024/c5/5_4_1_AAM_2023-2024.pdf |
| Upload any additional information | View File |

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

| 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 and in tune with the vision and mission of the institution

Indra Ganesan College of Engineering was founded in 2008 under the Indra Ganesan Educational & Charitable Trust, aiming to empower rural students in the Trichy district with the skills and knowledge to meet industry and societal needs. Initially offering the following undergraduate programs—Bio Medical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, and Electronics and Communication Engineering—the institution has evolved to provide eight undergraduate courses, including Mechanical Engineering, B.Tech in Agricultural Engineering, and Artificial Intelligence and Data Science. Additionally, it offers three postgraduate programs: Master of Business Administration, M.E. in Computer Science Engineering, and M.E. in VLSI Design, along with a Ph.D. in Computer Science.

Each department aligns its vision and mission with that of the institution, enhancing goal attainment. Implementing decentralized and participatory management involves faculty in decision-making and strategic planning, thereby fostering institutional growth. Since 2019, the institution has prioritized quality enhancement through the effective operations of the Internal Quality Assurance Cell (IQAC), ensuring continuous improvement in educational standards and services.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/criteria6.pdf |
| Upload any additional information | No File Uploaded |

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

To efficiently manage essential functions, the institution has established various ministries consisting of senior faculty members.

1. **Ministry of Planning & Development** oversees infrastructure, finance, budgeting, governance, and staff selection. 2. **Ministry of Academics and R&D** focuses on academic oversight, funding proposals, publications, and patents. 3. **Ministry of IQAC & Accreditation** manages IQAC proceedings, NAAC, NBA, and institutional rankings. 4. **Ministry of DoTE & Regular Activities** handles undergraduate and postgraduate approval processes, timetable coordination, ICT tools, special coaching classes, and co-curricular activities. 5. **Ministry of Approval & Admission** oversees AICTE and AU approval processes along with student admissions. 6. **Ministry of T&P and Corporate Relations** is responsible for training and placements, MOUs, and arranging resource persons for workshops and skill-based training. 7. **Ministry of Exam Cell, Library & Discipline** manages all Chief Examination Officer (COE) related activities, AU theory and practical exams, library management, and discipline matters. 8. **Ministry of Extra-curricular and Extension Activities** promotes sports, cultural events, and club activities. 9. **Ministry of Student Affairs & Scholarships** supports the mentor system, class meetings, grievance redressal, and various scholarships.

Cells and committees, comprising both teaching and non-teaching staff, ensure effective institutional functioning.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_1_1_Decentralization.pdf |
| Upload any additional information | No File Uploaded |

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The institution's strategic plan aligns closely with its vision and mission, developed by gathering input from stakeholders via IQAC meetings and feedback. The strategic objectives for 2021-2025 are as follows:

1. Enhance quality across all processes and commit to continuous improvement. 2. Achieve NBA accreditation for at least three undergraduate programs. 3. Consistently pursue a higher NIRF ranking. 4. Attain an A+ rating in NAAC accreditation. 5. Secure recognition under Section 12(B) of the UGC Act, 1956. 6. Decrease intake in B.E. Mechanical Engineering and B.E. Electrical and Electronics Engineering while introducing courses in emerging fields such as Cyber Security, Artificial Intelligence, Data Science, Robotics, Agricultural Engineering, and Biomedical Engineering. 7. Enhance industry collaboration through MOUs to generate consultancy services. 8. Establish one Center of Excellence lab with industry support in each department. 9. Submit project proposals to various funding agencies to secure grants. 10. Increase the number of publications in reputable journals. 11. Improve the teaching and learning process by effectively integrating ICT tools. 12. Foster greater student and faculty participation in professional development activities, including conferences, seminars, workshops, and training programs.

| File Description | Documents |
|--|---|
| Strategic Plan and deployment documents on the website | View File |
| Paste link for additional information | https://igceng.com/naac/c6/6_2_1_strategicplan.pdf |
| Upload any additional information | No File Uploaded |

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

****Governing Council and Administrative Structure****

1. ****Governing Council****: The Governing Council meets annually to discuss college development, review strategic plans, and provide guidance for institutional growth. 2. ****Administrative Setup****: The Principal oversees academic and administrative activities, including hostel and transport management. 3. ****HoDs****: Heads of Departments (HoDs) are responsible for proper functioning of classes, arranging guest lectures, and curricular and extracurricular activities.

****Roles and Responsibilities****

1. ****Teachers****: Teach both theory and practical, provide counseling, conduct exams, and maintain discipline. 2. ****Non-Teaching Staff****: Handle lab management, purchase of consumables, and maintenance of equipment. 3. ****Administrative Staff****: Maintain accounts, student scholarship information, and fees details.

****Cells and Committees****: Various cells and committees are formed to ensure efficient institution functioning.

****Recruitment and Promotion Policies****

1. ****Recruitment****: Advertisements are published in newspapers, websites, and social media. 2. ****Interview Process****: The Principal, HOD, and senior teacher form the interview panel. 3. ****Promotions****: Faculty self-appraisal forms are verified by HOD and forwarded to the Principal for final review and recommendation for promotion or increment.

| File Description | Documents |
|---|---|
| Paste link for additional information | https://igceng.com/naac/c6/6.2.1.pdf |
| Link to Organogram of the institution webpage | https://igceng.com/about/organogram.php |
| Upload any additional information | No File Uploaded |

6.2.3 - Implementation of e-governance in

A. All of the above

**areas of operation Administration Finance
and Accounts Student Admission and
Support Examination**

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

6.3 - Faculty Empowerment Strategies

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

****Faculty Development and Welfare****

The institution supports faculty development through:

1. ****OD Duty Leave****: Teachers can attend FDPs, workshops, and conferences with leave and reimbursement of registration fees.
2. ****Ph.D. Pursuit****: Part-time Ph.D. pursuit is encouraged, with required leave for research work.
3. ****Promotions and Increments****: Based on monthly self-appraisal reports.
4. ****Employee Benefits****: EPF scheme, 12 casual leaves/year, and 2 one-hour permissions/month.
5. ****Compensatory Leave****: For working on holidays.
6. ****Maternity Leave****: 6 months for lady faculty members without affecting continuous service.

****Recognitions and Rewards****

1. ****Cash Awards****: For distinguished performances in academics, research, and other activities.
2. ****Special Certificates****: 'IG STAR', 'IG Research Award', 'Maximum utilization of library', etc.
3. ****Festival Gifts****: Staff members receive gifts and sweets during festivals.
4. ****Yoga Training****: Provided to all staff members once a year.
5. ****Diversity and Inclusion****: Equal recruitment of male and female candidates in faculty positions.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_3_1_Staffwelfare.pdf |
| Upload any additional information | View File |

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

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

72

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| 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 programs organized by the institution for teaching and non-teaching staff during the year

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

2

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

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

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

104

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

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

The Performance Appraisal System for teaching faculty includes several key attributes designed to foster growth and innovation:

1. **Teaching Methodologies**: Emphasis on participatory and innovative approaches. 2. **Professional Development**: Membership in professional organizations and participation in conferences, workshops, and faculty development programs. 3. **Program Organization**: Involvement in seminars, guest lectures, and workshops. 4. **Feedback**: Gathering insights from students, Heads of Departments (HoDs), and the Principal. 5. **Community Engagement**: Active participation in community service. 6. **Research Contributions**: Publications in journals, conferences, and online platforms like NPTEL and SWAYAM. 7. **Student Outcomes**: Evaluation based on university examination results.

For non-teaching faculty, the appraisal system focuses on:

1. **Lab Management**: Expertise in lab exercises, maintenance, and organization of consumables. 2. **Professional Competence**: Assesses creativity and ability in assigned tasks, along with file and record management. 3. **Work Ethic**: Includes attendance, punctuality, discipline, and collaboration with colleagues.

The appraisal system encourages voluntary engagement in each area to enhance individual scores. Key personality traits, such as attitude, communication skills, professionalism, and relationships with co-workers and students, are evaluated by the HoD.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_3_1_Selfappraisal.pdf |
| 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 Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Internal and External Financial Audit Overview

The internal financial audit process begins with department heads (HODs) proposing a budget that covers new lab installations, equipment purchases, infrastructure

improvements, and funds for workshops, seminars, and conferences. This budget is submitted by the Principal to the Governing Council for approval. The accounts officer and administrative officer verify all department expenses against the approved budget. Once verified, bills are forwarded to the Principal for approval and subsequently to management for record-keeping. An annual internal audit of departmental stocks is conducted by rotating faculty members.

For external financial audits, the college employs a dedicated auditor, a member of the Governing Council, who ensures compliance with government norms. Key financial obligations such as Tax Deducted at Source (TDS), Employee Provident Fund (EPF), and professional tax payments are routinely verified by this auditor. The accounts department utilizes dedicated ERP software, offering computerized receipts for transactions, all supported by vouchers and bills. Transparency is key, with online payments, bank transactions, checks, and demand drafts facilitating secure payments. Additionally, a purchase committee evaluates and approves items based on quality and cost comparisons.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_4_1_resource_mob.pdf |
| Upload any additional information | No File Uploaded |

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

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

244200

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

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

The tuition fees set by the Government of Tamil Nadu are collected from students. First Graduate students admitted through TNEA counseling can access a 50% scholarship on total fees for four years, directly credited to the college's bank account. Full fee coverage under the Post-Matric Scholarship Scheme (PMSS) is available for all SC/ST/SCA students admitted through Government and Consortium counseling.

In addition to tuition, the institution receives indirect income from hostel fees, transport fees, alumni registration, and interest from fixed deposits. A significant portion of total income is allocated to staff salaries. For staff welfare, the institution provides incentives, increments, ex-gratia payments, and gifts. Student welfare includes funding for resource persons for orientation programs, guest lectures, and training sessions.

For financially disadvantaged students who excel in qualifying exams, the Trust offers partial or full fee coverage based on parental payment capacity. Maintenance expenses encompass building and lab upkeep, as well as vehicle and hostel maintenance, including renovations and servicing. Miscellaneous expenses cover a range of costs, including travel, taxes, audits, insurance, utilities, advertising, and administrative needs.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6_4_1_resource_mob.pdf |
| Upload any additional information | No File Uploaded |

6.5 - Internal Quality Assurance System

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

****Functions and Contributions of IQAC****

The Internal Quality Assurance Cell (IQAC) plays a vital role in enhancing quality in the institution. It periodically revises its membership in line with NAAC and UGC guidelines. The IQAC is responsible for planning and monitoring various processes, offering suggestions for continuous improvement. It fosters a quality culture within the organization and conducts regular review meetings to assess the implementation of planned activities.

To ensure decentralized and participative management, the IQAC forms various cells and committees, overseeing their effective functioning. Regular feedback is collected from students and other stakeholders to identify gaps and improve processes. The IQAC holds meetings twice a year to gather insights from key stakeholders, including industry representatives, alumni, parents, students, and recruiters, which inform the institution's strategic planning.

Additionally, the IQAC organizes workshops and seminars, both within and between institutions, focusing on quality themes and promoting quality circles. This comprehensive approach ensures a dynamic and responsive quality assurance framework, enhancing the educational experience and institutional effectiveness.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/iqac/ |
| Upload any additional information | View File |

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

****Academic Administrative Audit (AAA) Committee****

The Academic Administrative Audit Committee conducts a thorough review of all plans and schedules established prior to the semester's start. At the end of each semester, the committee

evaluates several key areas, including faculty course files, students' attendance registers, departmental events, and student participation in co-curricular and extracurricular activities. It also examines internal assessment question papers, answer scripts, student progress reports, weekly attendance records, mentor files, and departmental meeting minutes, providing suggestions or commendations where appropriate.

****Result Analysis Review Board (RARB)****

The Result Analysis Review Board (RARB), comprising the Principal and all Heads of Departments (HODs), focuses on student performance and strategies for enhancing academic outcomes and teaching quality. After each assessment, HODs present subject-wise and class-wise performance data and compare it with previous assessments. If performance is subpar, the board discusses necessary interventions. The committee also reviews student attendance during internal assessments. At the end of each semester, RARB examines University Examination results and provides recommendations to improve overall student performance, ensuring continuous academic enhancement.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://igceng.com/naac/c6/6.5.2.pdf |
| Upload any additional information | View File |

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

A. All of the above

| File Description | Documents |
|--|---|
| Paste web link of Annual reports of Institution | https://igceng.com/naac/c6/6.5.2.pdf |
| Upload e-copies of the accreditations and certifications | View File |
| Upload any additional information | View File |
| Upload details of Quality assurance initiatives of the institution (Data Template) | View File |

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

The Gender Sensitization Institution is dedicated to promoting gender awareness through various committees, including the Women Empowerment Cell, the Prevention of Sexual Harassment (POSH) Cell, and the Grievance Redressal Committee. Initiatives focused on women's empowerment and legal awareness have been implemented.

To ensure safety and security, CCTV cameras are installed in key areas, and a dedicated out-pass system operates with approval from the Head of Department and Principal. Essential facilities, including first aid kits, fire alarms, and extinguishers, are readily accessible.

Counseling services are available, with each mentor assigned to 10-12 students. Regular mentor-mentee meetings held every Friday help address personal issues such as stage fright, low self-esteem, and depression.

The college provides separate common rooms for both girls and boys, equipped with necessary amenities like first aid kits, cots, and mirrors. Additionally, a napkin incinerator is available in the girls' restroom, promoting hygiene and comfort. These initiatives reflect the institution's commitment to fostering a supportive and secure environment for all students.

| File Description | Documents |
|--|---|
| Annual gender sensitization action plan | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1.pdf |
| Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1_1.pdf |

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

A. 4 or All of the above

| File Description | Documents |
|--------------------------------|---------------------------|
| Geo tagged Photographs | View File |
| 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 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid waste management involves the collection, transportation, processing, recycling, and monitoring of waste materials. Our institution collects various solid wastes, including food scraps and paper, daily from classrooms, staff rooms, laboratories, and the canteen. Biodegradable waste is deposited in designated pits on campus, where it decomposes and is repurposed as manure for gardening. Recyclable materials are collected and sent to local recycling vendors, while sanitary napkins are disposed of through incineration.

Liquid waste management focuses on waste water from the kitchen, hostel, bathrooms, and laboratories. Solid materials in the liquid waste are mechanically removed using metal screening, and the remaining water is redirected to nourish nearby gardens and fields.

Our wastewater recycling efforts involve filtering contaminants from the treated water produced by our RO plant, which is then disposed of in the garden and fields.

For e-waste management, computers, printers, and laboratory equipment are regularly serviced and maintained. When sufficient e-waste is collected, it is sold to authorized vendors. Additionally, functional parts from discarded equipment are salvaged and reassembled into working systems, promoting sustainability within the institution.

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

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

A. Any 4 or all of the above

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

7.1.5 - Green campus initiatives include

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

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

A. Any 4 or All of the above

| File Description | Documents |
|--|---------------------------|
| Geo tagged photos / videos of the facilities | View File |
| Various policy documents / decisions circulated for implementation | View File |
| Any other relevant documents | View File |

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

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

B. Any 3 of the above

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

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

A. Any 4 or all of the above

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

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

IGCE constantly works upon to develop students as better citizens of the country and promote Unity in Diversity by organizing various programs. Our students participate in different festivals enthusiastically which implant the social and religious harmony in them. Yoga day, Onam and Pooja are celebrated which brings harmony among the students. IGCE celebrates the cultural and regional festivals like New- year's day, Diwali and Pongal celebrations every year. The teachers and students come in traditional wear to create a sense of unity among the students. This promotes an environment of tolerance among students from different backgrounds.

| File Description | Documents |
|--|---------------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | View File |
| Any other relevant information | View File |

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

A session on "Attitude" is organized for students to highlight the benefits of education, the consequences of being uneducated, and the importance of social and public behavior. During the bridge course, experts provide insights on legal awareness, bank loans, scholarships, health and hygiene, fire safety, human values, ethics, and environmental sustainability.

Participation in Independence Day and Republic Day events is mandatory for students, featuring activities like march pasts, patriotic songs, and poetry, along with speeches from esteemed guests on the Constitution.

Students engage in sapling plantation activities within and outside the college. Blood donation camps are another way students contribute to the community.

Courses in Environmental Engineering, Professional Ethics, Air Pollution, and Wastewater Management are integral to the curriculum. In remembrance of fallen soldiers, students pay homage by lighting candles, showering flowers, and displaying banners. Additionally, a voter awareness rally is conducted to encourage 100% voter participation and instill the importance of fulfilling constitutional duties among students.

| File Description | Documents |
|--|---|
| Details of activities that inculcate values; necessary to render students in to responsible citizens | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1_9.pdf |
| Any other relevant information | https://www.igceng.com/igac/aqar/2023-2024/c7/7_1_9.pdf |

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

A. All of the above

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

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

Dr. APJ Abdul Kalam's birth anniversary is celebrated annually on October 15th, where students take an oath and recite his inspirational quotes. The occasion includes sapling plantation and various programs to honor his legacy. Teacher's Day is observed on September 5th, with students organizing celebrations to honor their teachers by presenting gifts and greeting cards, complemented by cultural performances.

On October 2nd, Gandhi Jayanti is marked with students dressing as Mahatma Gandhi, delivering speeches that highlight his significant contributions to Indian independence. Independence Day and Republic Day celebrations feature the hoisting of the national flag, followed by patriotic songs, dances, and poetry, with army officers, police officers, and doctors as esteemed guests.

Engineers' Day, celebrated on September 15th, includes speeches about Bharat Ratna Sir M. Visvesvaraya, the first engineer of India. The day is filled with competitions such as technical quizzes, essay writing, and elocution, encouraging students to engage with engineering principles. Additionally, students pay homage to army officials who sacrificed their lives for the nation's peace and security, honoring their bravery and dedication.

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

7.2 - Best Practices

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

Best Practice 1: Connecting Gaps for Successful Engineer:

Best Practice 2: Engineer and the society

Indra Ganesan College of Engineering acknowledge the importance of a well-rounded education that goes beyond traditional classroom teaching implies a commitment to addressing various aspects of a student's development. This could include intellectual, emotional, and social dimensions, highlighting that education extends beyond academics.

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | https://igceng.com/naac/c7/7_2_1_Bestpractices_bestpractices.pdf |
| Any other relevant information | https://igceng.com/naac/c7/7_2_1_Bestpractices_bestpractices.pdf |

7.3 - Institutional Distinctiveness

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

Our "Strategy of Coaching" is a key focus area that distinguishes our educational approach. We conduct a comprehensive bridge course covering English proficiency,

communication skills, health and hygiene, fire safety, police regulations, scholarship information, banking loans, memory enhancement, motivation to study, and the importance of education.

Daily spoken English sessions are held during the last period to improve language skills, while teachers begin each day by explaining the meanings of English words to enhance students' vocabulary. To build confidence and communication skills, students are encouraged to participate in stage events.

We arrange annual industrial visits to familiarize students with industry practices, and they attend workshops at other colleges to broaden their technical knowledge and observe effective presentation skills. Special coaching classes for slow learners and co-curricular activities for quick learners are successful initiatives we implement.

Intensive coaching is provided before all university exams, and targeted support for arrear subjects has significantly improved our graduates' success rates. Furthermore, the introduction of internal squad duties during tests has resulted in zero reported malpractices in university exams. Each year, the Principal clearly explains the do's and don'ts, as well as common exam myths, to first-year students, ensuring they are well-prepared.

| File Description | Documents |
|--|---------------------------|
| Appropriate web in the Institutional website | View File |
| Any other relevant information | No File Uploaded |

7.3.2 - Plan of action for the next academic year

The institute's future plans include several strategic initiatives aimed at enhancing academic excellence and research output. We propose to apply for NBA accreditation for five programs (three undergraduate and two postgraduate) and pursue a higher NIRF rating. Our goal is to establish "Centres of Excellence" across all departments in collaboration with reputable multinational companies.

Aiming to enhance the intellectual environment, we will focus on attracting high-quality students and faculty, accompanied by significant intellectual contributions. We believe that

academic research can play a crucial role in corporate decision-making and have developed a robust research plan for the upcoming year.

To foster interdisciplinary collaboration, we will establish an R&D Forum that encourages the exchange of entrepreneurial ideas, best research practices, and outcomes beneficial to corporate professionals, industry experts, and academic researchers. Research workshops and special sessions will educate attendees about the latest research methodologies, technological advancements, and paper writing techniques to boost our intellectual output.

We aim to increase our faculty's PhD representation to meet the accreditation standards for both Indian and international recognitions. Additionally, we are actively seeking funding from government and non-government organizations to support our initiatives, with a focus on enhancing placements in top core and software development companies globally.