



## YEARLY STATUS REPORT - 2020-2021

### Part A

#### Data of the Institution

<b>1.Name of the Institution</b>		<b>Kongu Engineering College</b>
• Name of the Head of the institution	<b>Dr.V.Balusamy</b>	
• Designation	<b>Principal</b>	
• Does the institution function from its own campus?	<b>Yes</b>	
• Phone No. of the Principal	<b>04294220583</b>	
• Alternate phone No.	<b>04294226555</b>	
• Mobile No. (Principal)	<b>9942820583</b>	
• Registered e-mail ID (Principal)	<b>principal@kongu.ac.in</b>	
• Address	<b>Perundurai RS Road, Thoppupalayam, Perundurai</b>	
• City/Town	<b>Erode</b>	
• State/UT	<b>Tamil Nadu</b>	
• Pin Code	<b>638060</b>	
<b>2.Institutional status</b>		
• Autonomous Status (Provide the date of conferment of Autonomy)	<b>25/07/2007</b>	
• Type of Institution	<b>Co-education</b>	
• Location	<b>Rural</b>	

• Financial Status	<b>Self-financing</b>				
• Name of the IQAC Co-ordinator/Director	<b>Dr.U.S.Ragupathy</b>				
• Phone No.	<b>04294226549</b>				
• Mobile No:	<b>9842851315</b>				
• IQAC e-mail ID	<b>accreditation@kongu.ac.in</b>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="https://kongu.ac.in/igac/aqar/AOAR_2019-20.pdf">https://kongu.ac.in/igac/aqar/AOAR_2019-20.pdf</a>				
<b>4.Was the Academic Calendar prepared for that year?</b>	<b>Yes</b>				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://coe.kongu.edu/acschedule.php">https://coe.kongu.edu/acschedule.php</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.13</b>	<b>2016</b>	<b>19/02/2016</b>	<b>18/02/2021</b>
<b>Cycle 2</b>	<b>A++</b>	<b>3.52</b>	<b>2022</b>	<b>29/03/2022</b>	<b>28/03/2027</b>
<b>6.Date of Establishment of IQAC</b>			<b>02/06/2015</b>		
<b>7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?</b>					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
<b>Chemical Engineering</b>	<b>IVP</b>	<b>EDII</b>	<b>27/07/2020</b>	<b>243000.00</b>	
<b>Mechatronics Engineering</b>	<b>IVP</b>	<b>EDII</b>	<b>27/07/2020</b>	<b>250000.00</b>	
<b>Electrical and Electronics Engineering</b>	<b>RPS</b>	<b>AICTE</b>	<b>14/08/2020</b>	<b>1866667.00</b>	

Electronics and Communication Engineering	IVP	EDII	29/08/2020	265000.00
Electrical and Electronics Engineering	TDT	DST	30/09/2020	679100.00
Mechatronics Engineering	IVP	EDII	17/11/2020	250000.00
Mechatronics Engineering	IVP	EDII	22/12/2020	250000.00
Electrical and Electronics Engineering	TARE	SERB	15/12/2020	1830000.00
Electrical and Electronics Engineering	TARE	SERB	22/12/2020	1830000.00
Electrical and Electronics Engineering	TMD-WCE	DST	03/06/2021	2865200.00
Food Technology	TDT-WMT	DST	01/07/2021	10709518.00
Mechatronics Engineering	Ad-hoc Research Scheme	ICMR	22/12/2021	1800000.00

#### 8. Provide details regarding the composition of the IQAC:

<ul style="list-style-type: none"> <li>Upload the latest notification regarding the composition of the IQAC by the HEI</li> </ul>	<a href="#">View File</a>	
<b>9.No. of IQAC meetings held during the year</b>	<b>2</b>	
<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions taken</li> </ul>	<b>Yes</b>	

uploaded on the institutional website?		
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10. Did IQAC receive funding from any funding agency to support its activities during the year?</b>	<b>Yes</b>	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>	30000.00	
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
Research-Webinar on Reference Management using Endnote and Art of Consulting		
NAAC Sponsored two days National Level seminar on Enhancing Quality Teaching Strategies through Outcome Based Education		
Orientation for newly joined faculty members on Accreditation, ISO and IQAC		
ISO Surveillance Audit		
NAAC SSR Preparation and Submission		
<b>12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:</b>		

Plan of Action	Achievements/Outcomes
Curricular Aspects	Revisions made in R2020 and approved by the Boards of Studies
Teaching Learning Process	Progress in attainment of POs and PSOs
Research and Innovation Ecosystem	Improvement in Quality Publications (h-index:55)
Infrastructure Development	Renovation of Playground and Addition of new Computing facilities
Infrastructure Development	Modern Gym for both boys and girls
Infrastructure Development	Creation of vehicle parking space
Student Support System	Adequate number of Training Programmes and Improvement in Placement
Governance, Leadership and IQAC	Conducted regular internal and external audits, Submitted SSR
Best Practices	Green, Environmental and Energy Audit carried out
<b>13. Was the AQAR placed before the statutory body?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name of the statutory body	Date of meeting(s)
Governing Council	11/12/2021
<b>14. Was the institutional data submitted to AISHE ?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Year</li> </ul>	

Year	Date of Submission
22/11/2018	22/11/2018

### 15. Multidisciplinary / interdisciplinary

Kongu Engineering College prepared Strategic Plan 2020-2025 with goals to develop Multidisciplinary approach, Technology assisted Self Learning using Virtual Labs and many others. Based on the Strategic Plan, College is moving forward to attain the goals in the year 2025. The institute established different Cell/Clubs in order to develop the multidisciplinary projects and research works at student's level, there by establish a learner centric model approach. To delineate flexible and innovative curricula the institute offers Environmental science in I Year, Universal human values in II year and Skill based training to face placement drives in III year.

### 16. Academic bank of credits (ABC):

Academic Bank Credits (ABC) will digitally store the academic credits earned by the students from Higher Educational Institutions. To fulfill the requirements of ABC, details of the students and their academic documents are collected and kept ready for uploading in the digilocker/ABC login. Also the benefits of implementing ABC will be communicated to the students.

Kongu Engineering College has registered under Digilocker/ABC. The details are given below:

NAD ID: NAD012880

Institution Title: Kongu Engineering College

Institution Address: Perundurai Railway Station Road, Thoppupalayam,  
Perundurai, Erode-638060

Email Address: [coe@kongu.ac.in](mailto:coe@kongu.ac.in)

Registered Phone Number: 9842939403

Registered Aadhar No.: 805290871809

Registered Name: Shanmugam P

Input on Curriculum and Syllabus from faculty members are collected and discussed in the internal Board of Studies (BOS) meeting, which is attended by all members of faculty with minimum five years of experience. Draft Curriculum is framed in the internal BoS meeting with domain experts. This draft curriculum is reviewed by the Programme Assessment Committee (PAC) and subsequently are finalized in the BoS meeting. The recommended Curriculum and syllabus is approved in the academic council meeting. In all the three levels of meeting faculties are encouraged to play active role.

To implement ABC, the institute has already registered in the portal. Admin role allotted in the institute login to upload the student's credit details. Institute admin browse through [www.abc.gov.in](http://www.abc.gov.in) and get familiarize the details of uploading in the portal. In the institute login, verification of the account is pending from DigiLocke/ Academic Bank Credits end. Only after the verification process, it will be possible to upload the student's details and relevant documents. The mail regarding the "Verification of the account pending" was communicated to [nad.support@digitalindia.gov.in](mailto:nad.support@digitalindia.gov.in) for which the reply is yet to be received.

### **17.Skill development:**

Kongu Engineering College strives to provide holistic development for the students by offering value-based quality multi-disciplinary education.

- In order to prepare the students towards industry revolution 4.0, computer programming knowledge, coding skills, skills on design tools, IoT and Artificial Intelligence are provided to all the students.
- Practice based teaching, learning and evaluation methods with software tools are followed to enhance the skills.
- Courses on Value Education / Yoga and Values for Holistic Development and Professional Ethics and Human Values / Universal Human Values are included in the curriculum to ensure the value-based education.
- Proposed to introduce a course on 'Arivial Tamil' during the first year Engineering.
- 102 faculty members of KEC have been trained through AICTE - FDPs on Universal Human Values
- Specific students-centric clubs such as NSS, NCC, Yoga and Meditation Club, Cultural Club etc. provide active forums to

develop the ethical and human values. In addition, helping children of orphanages is one of the activities through which students directly practice the learnt values.

- To enhance the multidisciplinary skills, 15% to 25% of the curriculums of various programmes consist of Professional Electives and 3 to 4 Open Elective courses that include foreign language courses such as Japanese/German/ French/ Spanish, NCC, and Online courses from NPTEL, SWAYAM etc.
- One/Two credit courses with industry experts are provided to bridge the gap between the industry and academic institution.
- Professional Skill Training Phase-I and Phase-II with minimum 80 hours each and 2 credits each are provided to all UG programmes.
- To enhance the practical knowledge, students are encouraged to complete 2 or 3 projects as part of the curriculum.
- Students are provided with the flexibility of taking additional courses in the early semesters and earn more credits under the scheme titled "Fast-track". Such students, in the final year, are permitted to undergo one year/one semester full time internship.
- Four Credits are provided for students' start-ups/ entrepreneurial activities.
- In order to improve the coding skills, coding platform has been formulated and actively functioning which conducts minimum one contest per month.
- Training in soft skills, analytical, logical reasoning and verbal reasoning for about 300 hrs are provided.

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

Kongu Engineering College located in a rural area admits students from rural background and mostly from local tamil medium schools. To promote their skills in different cultures it operates a student club called cultural and music club where students acts as office bearers and mentored by faculty coordinators. Round the year activities are conducted as per the plan. Every year, a two-day intercollegiate event called "SKETCH" and a two-day intramural event titled "ENTHUSIA" are held where various performances showcasing Indian culture are staged. In total 24 clubs are actively functioned in Kongu Engineering College to promote such activities. 'Tamil Mandram' is one such club to nurture the local language among youths by conducting oratorical and traditional events bringing experts from various institutions and firms. Recently it received AICTE-SPICES grant to a tune of Rs.1 lakh.

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



Academics has always been the major focal point in Kongu Engineering College (KEC) since its inception in 1984. Well defined academic policies, expert sessions by industry experts and senior academicians, use of ICT to ensure effective delivery of quality teaching and knowledge dissemination are a hallmark of KEC. The National Board of Accreditation (NBA), a body for promoting international quality standards for technical education in India has started accrediting only the programmes running with Outcome Based Education (OBE) from 2013. The motivation for implementing OBE at KEC is to transform a skilled graduate to a competent graduate. The transition of OBE at KEC involved three groups. OBE from Core team has been transformed to select faculty members across each department called Transformational Agents (TAs). Each faculty transferred their learning experience on OBE to their department colleagues to impart the same to the learners. Each faculty in turn transformed the same to the learners in the classroom in various forms. OBE from the Core Team was delivered over the course of a four-phase residential session. The workshop was carefully designed to impart the necessity of OBE. The first phase insisted on the importance of the Outcome Based Learning Teaching (OBLT) and certain activities were performed to make them understand the importance of OBE and its benefits. The second phase concentrated on the details of imparting the knowledge on Outcome Based Curriculum design (OBCD) and Outcome Based Assessment and Evaluation (OBAE) for effective implementation of the OBE at the campus. With these acquired knowledge and experiences, TAs conducted sessions for the faculty and transferred the knowledge.

#### **20.Distance education/online education:**

At present we encourage Faculty and Students to register courses in NPTEL, Coursera, Future skills by NASSCOM, Digital skills by AICTE, AWS, Microsoft AZUR and many other online courses. Recently Tamilnadu Government launched a scheme called Naan Mudhalvan. Through this scheme many courses are offered in the emerging area and skills required for students to get placement in reputed companies or become an entrepreneur. Students are encouraged to enroll the courses by means credit transfer in VII and VIII semester.

In addition to Naan Mudhalvan scheme, Nalaiya Thiran professional training for innovation, employability and entrepreneurship are being implemented under blended mode of teaching and learning to provide experiential based learning. This experiential based learning is provided for all the final year students of CSE, IT & ECE. This course being organized in collaboration by Anna

University, Chennai, IBM, ICT Academy and Government of Tamilnadu.

**Extended Profile****1.Programme**1.1 29

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**2.Student**2.1 7423

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 2187

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3 7405

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

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**3.Academic**3.1 1408

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2	557
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3	557
Number of sanctioned posts for the year:	
<b>4.Institution</b>	
4.1	930
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	227
Total number of Classrooms and Seminar halls	
4.3	2840
Total number of computers on campus for academic purposes	
4.4	2295.44
Total expenditure, excluding salary, during the year (INR in Lakhs):	
<b>Part B</b>	
<b>CURRICULAR ASPECTS</b>	
<b>1.1 - Curriculum Design and Development</b>	
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.	
<p>The local, national, regional and global developmental needs are clearly reflected in POs, PSOs and COs of all the programmes. Courses offered under various categories, namely Humanities and Social Science, Basic Science, Engineering Science, Professional Core, Professional Elective, Open Elective Courses and Employability Enhancement Courses, provide holistic and multi-disciplinary education. Courses on Value Education / Yoga and Values for Holistic Development and Professional Ethics and Human Values / Universal</p>	

Human Values ensure value-based education. To enhance the multidisciplinary skills, 15% to 25% of the curriculums of various programmes consist of Professional Electives and 3 to 4 Open Elective courses, including foreign language courses such as Japanese/German and online courses on NPTEL, SWAYAM etc. To showcase the practical knowledge gained, students are made to complete 2 or 3 projects as part of the curriculum. Projects address the issues of the local/ national/ global community and such projects have been converted to products. A few of them have also been patented. Research work associated with the projects has been published in indexed journals. In regulation R-2020, 4 credits are provided for students' Start-ups entrepreneurial activities. BE/BTech Honours degrees are offered (upon approval from Anna University) to the students in emerging areas listed by AICTE.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://academic.kongu.edu/2018/">https://academic.kongu.edu/2018/</a>

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

28

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

1360

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 1.2 - Academic Flexibility

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

1360

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

28

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

## 1.3 - Curriculum Enrichment

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

**Gender Equality:**A course on Professional Ethics and Human Values [PEHV] has been included in the curriculum in which gender equality

is taught to all UG students. In KEC, boys and girls are treated equally in all respect, be it curricular or co-curricular activities.

**Environment & Sustainability:**In order to inculcate the importance of environment and sustainability, courses such as Air Pollution Management, Environmental Impact Assessment, Renewable Energy Sources, Energy Auditing and Energy Management, Green Computing, Wastewater Treatment, Energy Management in Process Industries, Industrial Wastewater Treatment, Bio Energy Conservation Technologies and Environmental Studies are offered as open elective courses to all students in the curriculum. A course on Environmental Science is provided as a mandatory course for all UG programmes.

**Human Values and Professional Ethics:**To ensure holistic development and value-based education, courses on Value Education and PEHV /Universal Human Values have been included in the curriculum.64 faculty members of KEC have been trained through AICTE - FDPs on Universal Human Values and another 20 faculty members have currently registered to attend similar FDPs. As mentioned in the Vision and Mission statement of the institution, value-based education is an important objective of the institution.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

74

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

**3154**

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.3.4 - Number of students undertaking field work/projects/ internships / student projects****2601**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.4 - Feedback System**

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

**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://academic.kongu.edu/feedback/">https://academic.kongu.edu/feedback/</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.4.2 - The feedback system of the Institution comprises the following**

**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://academic.kongu.edu/feedback/">https://academic.kongu.edu/feedback/</a>
Any additional information	<a href="#">View File</a>

TEACHING-LEARNING AND EVALUATION	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment of Students</b>	
<b>2.1.1.1 - Number of students admitted (year-wise) during the year</b>	
1781	
File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>
<b>2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)</b>	
542	
File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>
<b>2.2 - Catering to Student Diversity</b>	
2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.	
<p>The institution periodically assesses the performance of students through Continuous Assessment Test, Assignment, Tutorial, Other assessment and End semester examination.</p> <p>Advanced learners are motivated by regular appreciation and acknowledgement and bringing them to the next level of excellence by encouraging them to do value-added courses and NPTEL/SWAYAM online courses. The students are also motivated for preparing competitive examinations like GATE, CAT, UPSC, GRE, TOFEL, IELTS etc., to pursue their higher studies and achieve their occupational interest. The other language coaching classes are also arranged for the advanced learners to learn Hindi and foreign languages like Japanese and German. The students who perform well in academics are provided with the flexibility of doing their Eighth semester courses in fast track mode or course exemption through acceleration scheme, which enables them to undergo full time internship or involving them in industrial</p>	



project work.

Slow learners are given additional inputs by conducting remedial classes and open book test. The students can contact the faculty members for clarifying their doubts as and when required. Mentoring System is in practice to resolve the difficulties faced by the slow learners both academically and personally. Slow learners are regularly monitored and counseled by the mentors. (Sample uploaded)

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/12/2021	7423	557

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 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:

KEC effectively implemented OBE through activity based learning that includes experiential learning, participative learning and problem solving methodologies.

#### Experiential Learning:

- Apart from the regular laboratory sessions, mini projects in theory courses enable the students to develop working models demonstrating the skills of learning
- Industrial visits are regularly arranged to enhance the practical knowledge of the students.

#### Participative Learning:

- Students at KEC showcase their self-learning capability by

taking one credit courses, value added courses, Swayam/NPTEL courses and competitive examinations. Students have successfully completed the NPTEL courses with many Silver and ELITE certification

- Innovative and Activity based teaching-learning methods followed at KEC: Model-based, Interactive Session, Jig Saw, Role Play, Video based, Story Board, Demonstration and Think Pair Share enable the students to shift from competitive to competent environment

#### Problem Solving Methodologies:

- Objective type questions in higher level of thinking are given as tutorial / other assessment to focus on critical thinking
- Real time assignments and case studies enable the students to provide the solutions for real world problems
- Simulation tools and Virtual labs are effectively used to provide hands on experience to students in analytical/ Problem Solving approaches

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://naac.kongu.edu/cr_2/cr_2_3_1/cr_2_3_1.php">https://naac.kongu.edu/cr_2/cr_2_3_1/cr_2_3_1.php</a>

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

The members of faculty of KEC, make use of Information & Communications Technology (ICT) enabled tools (including online resources) for teaching learning process.

- Classrooms are furnished with LCD projectors to facilitate technical presentations (seminars /workshops) and telecast educational videos
- Laboratories, Seminar Halls, Auditorium, Senate conference Room and other conference rooms are equipped with ICT tools and enabled Wi-Fi 24x7
- Computer laboratories with high speed internet connection are available for research paper presentation, seminars, debates, group discussions, assignments, quiz / tests / viva and laboratory work
- ORELL Digital Language software is installed for enhancing communication skills

- Google classrooms are used to post course contents, conduct quizzes, maintain lab records and assignments
- Online drawing tools like concept maps and mind maps are used for student centric activities
- Smart classroom is available as additional learning resource to create video lectures and uploading the same for knowledge sharing among the students
- Digital and Jam boards are utilized to conduct online classes for mathematics and problem-oriented courses
- Online e-resources like National Programme on Technology Enhanced Learning (NPTEL) and you tube lectures are exploited for effective teaching-learning process
- Advanced Digital Library is highly active

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="https://naac.kongu.edu/cr_4/econtent/">https://naac.kongu.edu/cr_4/econtent/</a>
Upload any additional information	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

557

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

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

#### Academic Calendar and Teaching plans by the institution

The college adheres to academic calendar provided by the Controller of Examinations (CoE) office for Conduction of continuous internal evaluation system. The CoE Office is responsible for the announcement of academic schedule, preparation of question papers, conduct of examinations, evaluation of answer scripts and declaration of results and issuing of grade sheets. Every academic

year, students take up End Semester Examinations (ESE) in November and April. The Controller of Examination also ensures a smooth functioning of the Continuous Assessment Tests (CATs).

Academic plan issued by CoE includes the dates of commencement and closure of classes, schedules of internal exams end semester examination, tentative dates for practical exams, viva-voce and theory examinations. The teacher uses the academic plan for preparing course plans and follows the guidelines issued by CoE. The schedule of external examination will be fixed by the CoE and displayed on common / departments notice board and posted in CoE web portal (<http://coe.kongu.edu/>) for easy access. After the assessment of answer scripts, the scripts were distributed to the students for clarifying their doubts.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

557

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

231

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

10

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**2.5 - Evaluation Process and Reforms****2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year**

35

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

0

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

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

All the examination and evaluation process are carried out with the help of in-house developed software.

**Processes integrating IT:**

1. An exclusive web server in demilitarized zone with firewall security
2. Authorized access by the COE to the web portal
3. Data storage and uninterrupted power supply backup
4. Student's daily attendance and Marks for CA test are entered in 'Inspro Plus' Automation system
5. Previous question papers as archives, examination schedule and ESE results are published in the website for easy access
6. Photo copier machine interfaced with computer
7. A3 & A4 size Colour Printer for printing the Grade Sheets
8. Student's verification is done through online and digital mode.
9. Online transcript system is implemented for the passed out students.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://academic.kongu.edu/">https://academic.kongu.edu/</a>

**2.6 - Student Performance and Learning Outcomes**

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

The institution follows "Outcome Based Education" in alignment with National Board of Accreditation (NBA) and accordingly, along with the 12 Program Outcomes (POs) defined by NBA, 2 to 4 Programs Specific Outcomes (PSOs) are framed for each programme. The curriculum composition is carefully designed to attain the defined POs and PSOs. The Course Outcomes (COs) are formulated for all the courses (5 or 6 COs for theory courses, minimum of 3 COs for practical courses, 7 COs for theory cum practical courses and 5 COs for project work). Also, COs are mentioned in the continuous assessment test and end semester examination question papers along with its Bloom's knowledge level for each question.

The POs, PSOs and COs are published in the college website and syllabus book. The dissemination of the same to the stake holders such as Faculty, Students, Alumni, Parents and Employers are done as mentioned below:

## 1. Displayed in College Website

2. Course Plan is given to the students at the beginning of each semester indicating POs, PSOs and COs

3. Discussion in the Induction Programme

4. Displayed in the department prominent places like:

- HOD Room ,
- Class Rooms
- Laboratories
- Display Boards
- College Calendar
- Faculty Cabins
- Seminar Hall

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Link for additional Information	<a href="https://www.kongu.ac.in/departments/mech.php">https://www.kongu.ac.in/departments/mech.php</a>

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

Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) are evaluated through direct and indirect assessments.

**Direct Assessment:**

**Theory Courses :**Continuous Assessment Tests (CAT),Assignments,Seminar / Tutorial / Quiz / Practical Oriented Assessment / Mini Project etc. and End Semester Examination are considered for CO-PO attainment calculation.

**Laboratory Courses :**Continuous Assessment (CA) and Model Examination

**Design Project and Project work :**Continuous assessment through Reviews and Report Evaluation

**Value Added Courses /One Credit Courses :**Assessment Test

Overall attainment of COs (Theory) =  $0.4 \times \text{CIA attainment} + 0.6 \times \text{ESE attainment}$

Overall attainment of COs (Practical) =  $0.75 \times \text{CA attainment} + 0.25 \times \text{Model Exam attainment}$

PO & PSO attainment = (Overall COx Attainment)\* (Mapping value of PO and PSO for COx) where, x is the number of COs

#### Indirect Assessment:

The survey results from Graduates, Alumni, Employers, Course End Survey and assessment with respect to other co-curricular & extracurricular activities (from student portfolio) are recorded as attainment level of POs through indirect assessment.

#### Overall POs and PSOs Attainment:

The overall attainment values are calculated by considering 80% weightage to direct assessment and 20% weightage to indirect assessment

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

### 2.6.3 - Pass Percentage of students

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

2190

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil



## 2.7 - Student Satisfaction Survey

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

[https://kongu.ac.in/igac\\_student\\_survey.php](https://kongu.ac.in/igac_student_survey.php)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

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

The Research and Development (R&D) activities at Kongu Engineering College are accomplished by young, energetic and experienced faculty members. All the faculty members are motivated to do research along with their academics.

#### Objectives:

- To acquire new scientific knowledge
- To design novel methodologies in all fields of Engineering and Technology
- To develop new tools and techniques to expedite problem solving with special emphasis on rural and socially relevant issues

The faculty members are encouraged to apply proposals to various funding agencies for research project and to conduct programs. Financial support is provided to faculty members for attending/presenting papers in National/International Conferences. Ithenticate plagiarism software packages are utilized for checking plagiarism before submitting proposals/papers to funding agencies and journals. Apart from funding agencies, the Institution also provides SEED money to potential faculty members to carry out internal projects and encourage them in their research activities. Collaborative research is also encouraged with other higher education institutions within India and abroad.

- The financial assistance is being provided to faculty/staff/students for filing of patents/other IPR-related activities/Journals.
- Performance incentives are also given to all eligible faculty members with PhD qualification based on their research performance evaluation.
- Stipend is provided to Full-Time Research Scholars.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://rnd.kongu.edu/research_policy.php">https://rnd.kongu.edu/research_policy.php</a>
Any additional information	No File Uploaded

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

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

33.66

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

2

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.2 - Resource Mobilization for Research****3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)****227.79**

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

**3.2.2 - Number of teachers having research projects during the year****16**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://rnd.kongu.edu/activities.php">https://rnd.kongu.edu/activities.php</a>
List of research projects during the year	<a href="#">View File</a>

**3.2.3 - Number of teachers recognised as research guides****139**

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

**3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year****7**

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	Nil
Any additional information	<a href="#">View File</a>

### 3.3 - Innovation Ecosystem

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

The institution has created an excellent and well-balanced ecosystem for innovation, creation and transfer of knowledge supported by TBI, Community Radio, IIC and EMDC.

The Technology Business Incubator, (TBI@KEC), established in 2003, as a joint venture by KEC with support of National Science and Technology Entrepreneurship Development Board, DST, Govt. of India at cost of Rs.3.95 crore. It promotes innovation and entrepreneurship in cutting edge technology areas. TBI has established NIDHI PRAYAS Shala-Rapid Prototyping lab, at cost of 1 crore. 23 products have been launched and 24 incubatees received financial support of Rs.2.125 crore. The DST under NIDHI PRAYAS scheme sanctioned Rs.7 crore to TBI@KEC. Totally 5 patents have been granted and 11 Awards were won by incubatees.

Kongu Community Radio Service (Kongu CRS), established in 2005, serves the cause of people through programmes on education, health, environment, agriculture and community development.

Institution's Innovation Council (IIC)@KEC has created an ecosystem for supporting young minds toward innovation and entrepreneurship. It provides assistance for successful start-ups of faculty and students. They are encouraged to convert innovative ideas into working prototypes.

Entrepreneurship and Management Development Centre (EMDC)@KEC launched in 2003 also promotes entrepreneurship via organizing Sponsored Entrepreneurship Awareness Programme, Start-up Mania, Workshops etc.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.kongu.ac.in/ief.php">https://www.kongu.ac.in/ief.php</a>

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

30

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.4 - Research Publications and Awards

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

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

#### 3.4.2.1 - Number of PhD students registered during the year

108

File Description	Documents
URL to the research page on HEI website	<a href="https://rnd.kongu.edu/">https://rnd.kongu.edu/</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

788

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

409

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://rnd.kongu.edu/books.php">https://rnd.kongu.edu/books.php</a>

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

#### 3.4.5.1 - Total number of Citations in Scopus during the year

816

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	<a href="#">View File</a>

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

**Index of the University****3.4.6.1 - h-index of Scopus during the year**

55

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	No File Uploaded

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

24.22

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

3.24

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View File</a>
List of facilities and staff available for undertaking consultancy	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.6 - Extension Activities

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

To spruce up our students with social responsibility, we encourage them to serve the nearby community living around our campus. Our college has 3 NSS units with 600 active student members. In addition, the institute comprises a vibrant NCC unit along with an Air-wing extension. The institute also has many clubs and cells which provide extension activities for the benefit of neighbourhood community. Some of the significant activities conducted are

- Five villages have been adopted under Unnat Bharat Abhiyan Scheme. Lake Cleaning and Nature Conservation activities are carried out by NSS team
- Organized COVID-19 awareness programmes through NSS
- Organized webinar for elderly people on the title 'Life After-60'
- Awareness program conducted on tree plantation.
- Organized Aadhar camp
- Conducted awareness programme on postal life insurance schemes.
- Organized blood donation camp through NSS
- Organized cycle Rally with CRPF team on the theme 'Azadi Ka Amrut Mahotsav'



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.kongu.ac.in/newspaper.php">https://www.kongu.ac.in/newspaper.php</a>

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

7

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

61

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

3307

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 3.7 - Collaboration

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

1278

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

35

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

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

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

Kongu Engineering College has the state-of-the-art facilities on almost all the aspects pertaining to teaching-learning process.

The total number of classrooms is 209 and all the classrooms have Wi-Fi connectivity and most of the classrooms have LCD Projectors. Seven Drawing halls are available in the campus. Totally 16 Seminar Halls are available in the campus. Maharaja auditorium with a seating capacity of 630 is available. In order to conduct College level programs, 'Kongu Convention Centre' with a seating Capacity of 4500 is available.

There are totally 165 laboratories in the campus. Central Library, with adequate number of titles and volumes of text and reference books, is available for students and faculty members. Apart from Central Library, each department has its own Department Library.

Totally 2965 computer systems, connected to internet through a

leased line with a bandwidth of 1 Gbps with Fortinet firewall 1100E, QNAP Backup storage service, 423 CCTV Cameras, are available in the campus. In order to support ICT based teaching-learning process, each building, including hostels, has Wi-Fi facility. The number of Wi-Fi access points available in the campus is 461.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

#### SPORTS AND GAMES FACILITIES

There is a multipurpose Indoor Stadium with 1002 Sq.m housing 3 Badminton Courts, one Volleyball Court and 6 Table Tennis Boards. An Indoor Gallery with 250 seating capacity is available. Total outdoor area of play field is 8 acres which includes Athletic Track - 400 MTS, Ball Badminton with Flood Light, Basketball Court with Flood Light, Cricket Field, Cricket Nets (Concrete), Football Field, Hockey Field, Handball Court, Kho - Kho court, Kabaddi Court with Flood Light, Obstacle Race, Tennikoit court, Tennis Clay Court with Flood Light, Tennis Wall Practice and Volleyball Court with Flood Light.

Separate Gym with Modernized equipment are available for ladies and gents.

In all the hostels, facilities for indoor and outdoor games are available in addition.

#### CULTURAL FACILITIES AND ACTIVITIES

Kongu Engineering College Cultrual club and Music club for conducting Various cultural activities. A well equipped band room comprising of musical instrument is available. The club conducts activities such as Enthusia, Founders day, annual day etc.

#### Yoga and Meditation Centre

The institution has Yoga and Meditation Centre, having 2 Halls exclusively designed for yoga and meditation with audio and video facilities, for improving the physical and mental health of

**students, faculty and staff.**

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://kongu.ac.in/facilities/sports.php">https://kongu.ac.in/facilities/sports.php</a>

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

**227**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

**858.58**

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### **4.2 - Library as a Learning Resource**

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

Out sourced ILMS software for the College Library is available since 1996 developed using NIRMALSPRO@3.2.0 initially. Now, it has been upgraded with NIRMALSUITE-2014 PREMIUM PACKAGE (Library Module). The database has been developed in Oracle 11g. Subsequently the Library Management System (KOHA-RFID) software for the College Library is available since 2022. The Koha Library Software is world's first free and open source library system. Its development is sponsored by

libraries of varying types and sizes, volunteers, and support companies worldwide developed using Koha version: 21.11.01.000.

The Library is fully automated and the process of automation is as described below:

- **Book Entry:**The various details of the book such as Accession number, Call number, Title of the Book, Edition of the Book, Authors, Publication place, Year, Number of pages, Book status (Transfer etc..), Price, Bill number, Purchase date and ISBN are added to ILMS Database regularly.
- **Report Generation:**On daily basis the various reports like Books issued and returned, newly added and pending dues are generated from ILMS (Integrated Library Management System).
- The users can search the books through Online using Public Access Catalogue (OPAC) and Web OPAC, they can find the availability of books.

(<http://webopac.kongu.edu:8082/Library/index.jsp>)

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://webopac.kongu.edu:8082/Library/index.jsp">webopac.kongu.edu:8082/Library/index.jsp</a>

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

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

67.30

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

#### 4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

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

1403

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 4.3 - IT Infrastructure

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

##### Internet, Networking and Surveillance Facilities

An uncompressed bandwidth of Leased Line Internet Connection upgraded from 512Mbps (2020) to 1Gbps Bandwidth (2021) at the cost of Rs. 42,48,000/- is provided for all the computers available inside the campus. To increase surveillance area of the campus additionally 141 cameras with dedicated storage along with NVR were installed at the cost of Rs. 14,11,786/-. SYMANTEC end point protection was renewed at the cost of Rs.1,10,448/-.

##### Server Facilities

To cater the needs of IT facilities of academic community of the institute, 3 numbers of DELL Power edge R740 as a campus server and COE server with unified storage and QNAP storage device was established in the year 2021 at the cost of Rs.37,97,960 /-. In addition, a Super Micro -GPU server was established in the year 2021 at the cost of Rs.12,91,500/-.

##### Software Up-gradation

Firewall hardware and software license were purchased in the year 2021 at the cost of Rs.57,06,200/- . MATLAB campus suite was purchased at the cost of Rs. 15,44,030/.

#### IT Infrastructure Maintenance

Annual Maintenance Contract (AMC) is entrusted with external agencies for UPS and the contracts are renewed annually at the cost of Rs.6,31,328/- .

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
7423	2840

File Description	Documents
Upload any additional information	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus**      A. 250 Mbps

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**4.3.4 - Institution has facilities for e-content development:**      A. All four of the above  
**Facilities available for e-content development**  
 Media Centre  
 Audio-Visual Centre  
 Lecture Capturing System (LCS)  
 Mixing equipments and software for editing

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://kongu.ac.in/igac/facility.php">https://kongu.ac.in/igac/facility.php</a>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

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

1436.86

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

- Adequate in-house staff is employed to maintain hygiene, cleanliness and infrastructure on the campus to provide a congenial learning environment. Classrooms, Staff rooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by Non-teaching staff assigned for each floor. Wash rooms and rest rooms are cleanly maintained. Master Dustbins are placed in every floor in addition to waste bin in each class rooms. The Green Cover of the campus is well maintained by a full-time gardener.
- Chief civil engineer and Chief electrical engineer and their teams are involved in the maintenance of infrastructure facilities. These teams look after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing and housekeeping.
- Building-wise engineers have been assigned to all construction work, and they are responsible for all civil works, plumbing, water supply, furniture, electrification, and other maintenance activities. A web portal maintained by Kongu ERP team is available to register and monitor the maintenance activities



(<https://kms.kongu.edu/maintenance/login.php>).

Tracking mechanism is available to view the job status.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://kms.kongu.edu/">https://kms.kongu.edu/</a>

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

4152

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

521

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

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

**A. All of the above**

File Description	Documents
Link to Institutional website	<a href="https://naac.kongu.edu/agar/2020_21/cr5_1_3/">https://naac.kongu.edu/agar/2020_21/cr5_1_3/</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

3165

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)	<a href="#">View File</a>

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

**A. All of the above**

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

<b>5.2 - Student Progression</b>	
<b>5.2.1 - Number of outgoing students who got placement during the year</b>	
1174	
<b>File Description</b>	<b>Documents</b>
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
<b>5.2.2 - Number of outgoing students progressing to higher education</b>	
116	
<b>File Description</b>	<b>Documents</b>
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year</b>	
<b>5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year</b>	
59	
<b>File Description</b>	<b>Documents</b>
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>5.3 - Student Participation and Activities</b>	
<b>5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year</b>	
12	

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

The institution has an active Student Council that functions with the prime aim of improving and enhancing the standard of the learning environment in the campus. The functions of the council are to address the grievances of the students, consider the suggestions of the students and plan for further improvement. The council comprises of male and female students from each department and two male and two female students from the first year B.E. / B.Tech. Programmes. The council meets once in a semester. The minutes are recorded and actions are taken on the points discussed.

#### Representation students on Academic & Administrative Bodies / Committees of the Institution

- Various Students' Forums / Clubs / Cells listed in institute website are functioning in the College through which the students enthusiastically take part in different activities:
- Department Association Committee
- Course Monitoring Committee
- Sports Committee
- Cultural Committee
- Hostel Committee

In addition to playing active role as members in all these Clubs, Cells, Forums and Chapters, students of both genders act as office bearers like Chairman, Secretary, Additional / Joint Secretaries, Treasurers, Executive members where almost 35% of students will take the opportunity to experience the leadership role.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://naac.kongu.edu/agar/2020_21/cr5_3_2.pdf">https://naac.kongu.edu/agar/2020_21/cr5_3_2.pdf</a>

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

7

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	No File Uploaded

**5.4 - Alumni Engagement**

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

KEC Alumni Association is a Registered Society. The first batch of KEC Alumni bloomed out in April 1988. KEC Alumni Association was formally inaugurated on 8th February 1997. Since its inception, the Alumni Association has actively involved in various activities, focusing on the vision and mission statements.

In a view to strengthen the activities of KEC Alumni Association, KEC parent chapter has also been formed in the college with an advisor and representatives from each department. There are 4 local chapters functioning in Erode, Chennai, Bangalore, Coimbatore and 3 global chapters in North America, UK and South East Asia. The Alumni engage themselves in contributing to the college through various activities like delivering guest lectures, acting as chief guest for various events at the college, mentoring junior students and acting as Board of Studies members and expert members apart from providing industrial and placement linkages.

An interactive and user friendly alumni website <https://alumni.kongu.edu> is also available for the alumni to register themselves and interact with the students and to disseminate their expertise. The alumni association organises Silver Jubilee Meet, Decade Meets and reunion meetings every year.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://naac.kongu.edu/aqar/2020_21/cr5_4_1_KEC_Alumni_Association.pdf">https://naac.kongu.edu/aqar/2020_21/cr5_4_1_KEC_Alumni_Association.pdf</a>

**5.4.2 - Alumni's financial contribution during the year**

E. <2 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

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

#### Vision of the College:

To be a centre of excellence for development and dissemination of knowledge in Applied Sciences, Technology, Engineering and Management for the Nation and beyond

#### Mission of the College:

We are committed to value-based Education, Research and Consultancy in Engineering and Management and to bring out technically competent, ethically strong and quality professionals to keep our Nation ahead in the competitive knowledge intensive world

#### Nature of Governance:

- The Institute follows the guidelines from UGC, AICTE and Anna University and aims for continuous improvement through the implementations of ISO 9001 and IQAC norms and participating in NBA, NAAC, NIRF, ARIIA, etc.
- A Governing Council has been formulated with members from The Management, nominees from AICTE, UGC, DOTE, State Govt., Industry, External and Internal faculty members and convened by the Principal.  
(<https://kongu.ac.in/pages/governingcouncil.php>)

- Development of various policy decisions are done through Academic Council and are percolated to departments through Board of Studies, CCO's & HOD's meetings and Department Meetings (<https://kongu.ac.in/pages/academiccouncil.php>)

Implementation of National Education Policy (NEP) and National Innovation and startup Policy (NISIP) within the institute.

(<https://kongu.ac.in/student.php>)

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://kongu.ac.in/pages/vmq.php">https://kongu.ac.in/pages/vmq.php</a>

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

#### Decentralization:

- Effective decentralization of responsibilities is enforced within the campus. All the activities within the campus are categorized as Academic, Planning, Programme Implementation & Ranking, Industry relations, R&D, Student Affairs, Accreditation, Placement Training, Science & Humanities, Public Relations and Alumni
- For an instance, all the cells, clubs and professional bodies of our institution comes under the head of Student Affairs (<https://kongu.ac.in/student.php> )

#### Participative Management:

- Participative management is encouraged by including faculty members in the statutory bodies such as Governing Council, Academic Council, Finance Committee, Board of Studies, Disciplinary Committee, Anti Ragging Committee and other Institutional level committees.
- Course monitoring committees are formed in the department levels to monitor the teaching learning process and also to fine tune the activities. Strategies to improve teaching learning process and the academic environment are discussed
- In Students' council, representatives from all departments take part. For each semester a meeting is convened by the Principal to discuss the general issues relating to academics,

placement, co-curricular activities, infrastructure facilities, etc.

- In Department level Student Associations, a number of co-curricular activities are planned and executed. A number of Clubs with Student centric activities are functioning in the college.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://kongu.ac.in/#">https://kongu.ac.in/#</a>

## 6.2 - Strategy Development and Deployment

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

Taking into account the path travelled (History of the institution, Growth Pattern, Present Status), a detailed SWOT Analysis was done. Based on the analysis and deliberations, a strategic plan (2020-2025) has been devised considering the below aspects:

- Teaching - Learning Process
- Research and Development
- Human Resource Planning and Development
- Industry Interaction
- Community Engagement
- Internationalization

A system of monitoring and midcourse correction is also envisaged.

The accomplishment of those plans is evident through NIRF Ranking, Publications and R & D projects etc.

A simple case study on Research and Development activities is discussed below:

At present 259 faculty members are Ph.D holders. The number of publications in scopus, SCI, SCIE and ICI indexed journals are increased to 3243. On an average 200 papers were published per year before the implementation of strategic plan and now it is increased to 660 per year. Number of sponsored R&D projects is increased from



65 to 84. A sum of Rs. 2563.99 Lakhs was received as grant from various funding agencies. Seed money proposals are sanctioned worth Rs.109,44,000/- for deserving research projects and full time scholars are provided stipend from the Institution.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://kongu.ac.in/docs/KEC_StrategicPlan2020-25.pdf">https://kongu.ac.in/docs/KEC_StrategicPlan2020-25.pdf</a>
Upload any additional information	No File Uploaded

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

Kongu Engineering College is a great possession of the The Kongu Vellalar Institute of Technology Trust(KVITT). Correspondent interacts with Trust to frame directive principles and policies, amend and approve them from time to time and reviews the functioning of college. Trust provides necessary funding to develop, maintain and improve the quality of infrastructure, faculty, teaching learning process and research. Correspondent regularly reports the trust through regular monthly meetings about the regular academic and administrative works that are carried out in the Institution.

Principal is the authority for all academic related activities and regular administrative functions. He interacts with Correspondent and rises proposals to provide the necessary resources to achieve the said goals, vision and mission. He is assisted by The Chief Co-ordinators (CCOs) and The Head of Departments (HoDs) in implementing the policies and ensuring the achievement of the goals. CCO's assist Principal to execute administrative and policy based activities related to affiliation, student affairs, planning, R&D, curriculum design, accreditation and ranking of the Institution. Hods are given autonomy in carrying out their academic functions. Different committees, cells and professional societies are actively functioning in the Institution with the participation of faculty members.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://kongu.ac.in/docs/KEC_OrganizationStructure.pdf">https://kongu.ac.in/docs/KEC_OrganizationStructure.pdf</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://kongu.ac.in/docs/rules_hr_policy.pdf">https://kongu.ac.in/docs/rules_hr_policy.pdf</a>

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

B. Any three of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

### 6.3 - Faculty Empowerment Strategies

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

The following are the welfare measures extended to the teaching and non-teaching staff of the Institute:

#### Faculty (Teaching Staff)

1.Group Insurance

2.Leave

3.EPF - Applicable to all faculty members

4.Gratuity

5.Sponsorship for Higher Studies - Ph.D. Full Time / Part Time, PDF

6.Sponsorship to attend FDP /Seminar / Paper Presentation /

## Conference - in India &amp; Abroad

7. Revenue sharing with faculty in Consultancy / Testing
8. Cash incentive for Paper Publications, R&D work
9. Free Lodging facility to Faculty members who are staying in hostels
10. Residential Quarters facility for Faculty
11. Gold coin for Best Faculty award
12. Cash prize for Best Researcher award, Best Placement Co-ordinators, Best IIPC Co-ordinators, Best performing Researcher (R&D Projects)

## Staff (Non-Teaching)

1. Group Insurance
2. Leave
3. EPF - Applicable to all eligible staff members
4. Gratuity
5. Revenue sharing with staff in consultancy / testing
6. Free Lodging facility to staff members who are staying in hostels
7. Residential Quarters facility for Staff
8. Free Uniform and Shoes
9. ESI - Applicable to all eligible staff members
10. Gold coin for Best supporting staff (Technical, Non-Teaching, Maintenance, Transport)

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://kongu.ac.in/docs/rules_hr_policy.pdf">https://kongu.ac.in/docs/rules_hr_policy.pdf</a>

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

9

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

98

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

541

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**6.4 - Financial Management and Resource Mobilization**

6.4.1 - Institution conducts internal and external financial audits regularly

**Institution conducts internal and external financial audits**

regularly.

#### External Audit

Management-appointed External Auditor audits the annual accounts regularly

#### Internal audit

The income and expenditure of the institution will be verified by the Registrar and the Principal on daily basis.

Office Superintendent and Accountant will check cash ledgers on daily basis.

Internal auditor C.Velumani appointed by the Management audits all the financial transactions of the college.

For the regular maintenance of accounts, the Staff members are also assigned duties.

The expenses of the college are incurred in accordance with the budget approved by the College Finance Committee every year.

Books of Accounts maintained in the college are audited annually by External Qualified Chartered Accountants appointed by the Management and the final audited report is discussed in the Annual Meeting of the Management Committee for further actions and suggestions.

#### Audit for Government Funds

The expenses made for the various grants received from Central, State governments and other funding agencies under various schemes including R&D projects and Funding/Sponsored Programmes. These accounts are audited by the Chartered Accountant appointed by the college and relevant Utilization certificate are duly signed by both the Principal and the Chartered Accountant.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://kongu.ac.in/docs/auditreport/2020_21.pdf">https://kongu.ac.in/docs/auditreport/2020_21.pdf</a>

**6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)****6.13**

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

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

Kongu Engineering College is a great possession of the committed Trust called 'The Kongu Vellalar Institute of Technology Trust' in Erode District, Tamilnadu. The noble trust has taken the institute to greater heights since its inception in 1983 and has established the college as a self finance college. The mobilization of funds is not an issue, though the college is being managed by a team of 41 philanthropists who are leading industrialists.

The institution is mobilizing funds and using optimum resources of the fund effectively throughout the years. The funds are mainly self-sufficient for the academic and research related activities of the Institution. The source of income is mainly generated from the students' fees. The fees collected from students are used for many academic development activities of the College. The hostel fee is collected from hostel students and used for operations and maintenance of Hostel.

Apart from these, other sources of fund mobilization is provided in additional information.

KEC has a separate finance committee headed by the Principal, which sanctions the financial budget every year and allocates the funds effectively to the needy. The committee also decides about various Income and Expenditure norms as well as programme approval norms.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

## 6.5 - Internal Quality Assurance System

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

The IQAC is continuously ensuring various quality assurance steps at all levels of the institution functioning as mentioned below:

1. Teaching Learning process - Outcome Based Education (OBE)
2. Institute Innovation Council (IIC)
3. Utilization of ICT Tools
4. Industrial tie-ups
5. Learning Resources
6. Research Publications and Patents

### Example 1:

#### Teaching Learning process - Outcome Based Education (OBE)

Outcome based education (OBE) system has been implemented towards strengthening the learning potential of students. The implementation of Outcome Based Education in the teaching learning process produced the following benefits in comparison to the traditional teaching learning process.

- Flexible and holistic curriculum development process with stakeholders participation
- Significant skill development among the learners
- Learner-centered classroom approach rather than Teacher-centric
- Activity-based curriculum in which the teacher performs and the learner manipulates
- Collaborative and blended learning
- Emphasis on much needed soft skills

### Example 2: Institute Innovation Council (IIC)

The main objective of functioning of IIC includes, conducting various innovative and entrepreneurial activities, Identifying and rewarding new innovations, Organizing regular workshops, seminars, interactions through successful entrepreneurs, investors and offering a mentoring support for student innovators, Conducting project expo among various domain students and Organizing Hackathons, idea competition, startup ideas, mini-challenges etc.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.kongu.ac.in/iqac.php">https://www.kongu.ac.in/iqac.php</a>

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

IQAC has introduced an Online Faculty Appraisal System towards evaluating the performance of all faculty members. Similarly, a student feedback system is also introduced to collect feedback from all the students after completing a particular semester. In addition, IQAC conducts internal and external academic and administrative audits during every academic year.

#### Example 1: Academic and Administrative Audit

The Academic and Administrative Audit were carried out by TUV management Service during 26.02.2020. The audit team concentrated the following parameters in teaching learning processes.

- Programme Structure and Content
- Curriculum Design
- Teaching and Learning Strategy
- Assessment methods / Student Evaluation
- Staff Development Activities
- Student Feedback
- Stakeholders Feedback
- Stakeholders Satisfaction

#### Example 2: Internal Audit

Internal Audit is carried out at the end of each semester. Last internal audit was carried out during Dec 2020 towards ensuring the readiness to take up the external audit. The following is the audit findings and sample action taken report by individual departments.



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	<a href="https://kongu.ac.in/igac.php">https://kongu.ac.in/igac.php</a>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## **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

An Annual Gender Sensitization plan is published in the college website ([https://kongu.ac.in/downloads/GEC\\_ACTION\\_PLAN.pdf](https://kongu.ac.in/downloads/GEC_ACTION_PLAN.pdf)) and awareness is created among the students. Women Development Cell (WDC) and Gender Equality Club organize Women empowerment lectures, awareness programs and various competitions for motivating the young female students. In every class, one girl student is made the class representative. The girl students are encouraged to be top-level executives of various cells and clubs. To promote women leaders, the female faculties are appointed as heads of different departments, cells and clubs. Girl students are encouraged to serve the society and the nation by actively participating in NSS and NCC. Their

participation in NSS is around 30 - 40% and NCC is 14 - 25%. To encourage the girl students in curricular, co-curricular as well as extracurricular activities, KEC offers two special awards every year - "Best Outgoing Student (Girl)" and "Best overall Sports Person (Girl)".

Parameters

Count

Girls in NCC

34

Girls in NSS

227

Women Faculty In-charge of Cells

17

Women Faculty Award

13

Guest Lecture for Gender

Equality

02

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://naac.kongu.edu/cr_7/cr_7_1_1/">https://naac.kongu.edu/cr_7/cr_7_1_1/</a>

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

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

#### **SOLID WASTE MANAGEMENT**

Campus Solid Waste Management program is implemented to segregate and recycle organic waste, paper, cartons, paper cups, soft drink tins, plastic, pet bottles, e-waste, biowaste, etc. Solid waste is segregated into degradable and non-degradable and handed over to the authorities concerned. Each block and each floor is provided with dry waste collecting bins, waste collected every day is handed over to the local municipal authorities. The food and vegetable wastes are used for biogas plant of the campus. Answer booklets, Old waste papers, practical papers and woodcrafts are sent to nearby paper and board industry for recycling. Sanitary napkin incinerator with wet scrubber (for pollution control) is installed in the ladies hostel for disposing the napkins.

#### **LIQUID WASTE MANAGEMENT**

Sewage treatment plant of capacity 1,20,000 liters per day at a cost of Rs 49,50,000 has been established. A screening chamber and an aerator which supplies oxygen in the aeration tank for effective growth of microbes, secondary settling tank to remove the bio flocs and chlorination tank to destroy the pathogenic microbes in the treated effluent are installed in the campus and properly maintained.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore**

A. Any 4 or all of the above

<b>well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus</b>	
File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>
<b>7.1.5 - Green campus initiatives include</b>	
<b>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</b>  <ol style="list-style-type: none"> <li><b>1. Restricted entry of automobiles</b></li> <li><b>2. Use of bicycles/ Battery-powered vehicles</b></li> <li><b>3. Pedestrian-friendly pathways</b></li> <li><b>4. Ban on use of plastic</b></li> <li><b>5. Landscaping</b></li> </ol>	<b>A. Any 4 or All of the above</b>
File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>
<b>7.1.6 - Quality audits on environment and energy undertaken by the institution</b>	
<b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b>  <ol style="list-style-type: none"> <li><b>1. Green audit</b></li> <li><b>2. Energy audit</b></li> <li><b>3. Environment audit</b></li> <li><b>4. Clean and green campus recognitions/awards</b></li> <li><b>5. Beyond the campus environmental promotional activities</b></li> </ol>	<b>A. Any 4 or all of the above</b>

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

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

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<a href="#">View File</a>
Details of the software procured for providing assistance	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

Kongu Engineering College caters to the inclusive environment with diversity in terms of culture, region, linguistic, communal, socioeconomic and other aspects and is a big promoter of diversified environment in various ways. To accommodate cultural diversity, the institute encourages exchange of cross cultural ideas and also celebrates the festivals of different culture. Apart from various districts of Tamil Nadu, the institute has got 96 students from the

other states of India like Telangana, Andhra Pradesh, Jammu and Kashmir, Haryana, New Delhi, Bihar, Chhattisgarh, Jharkhand, Kerala, Pondicherry, Rajasthan, Punjab and Karnataka. The students of all regions are provided with equal chances to participate in co-curricular activities.

English is utilised as a medium of teaching in all the classrooms to bridge the gap between the region specific teaching and the expectations of the students and the faculty from the other states. The students and the faculty of all the communities and religions (FC -3.6%, BC-72%, BCM-2.3%, MBC-16%, SC/ST-5.1%) are a part of this temple of learning which shows that the institute strives to provide conducive environment for all.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

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

The values are inculcated through courses in the curriculum namely Value Education, Yoga & Values for Holistic Development, Universal Human Values: Understanding Harmony and Professional Ethics & Human values. Through NSS, NCC, Rotract club, Self-Development Cell, Youth Red Cross, Energy-Environment club and Consumer Citizen clubs' various programs are organized to make the students to realize their rights, duties and responsibilities. Various programs organized are:

- Environmental awareness programs- planting trees, campus cleaning
- Pasumai vanam - planted trees and created awareness about global warming
- Blood donation camps by NSS and other clubs along with the hospitals
- Aadhar Registration Camp - For the benefit of public
- Independence Day, Republic Day and Constitutional Day are celebrated to create awareness among the students about our Constitution, freedom struggle and our nation's history.

Activities that make the students as Responsible citizens :09

S.No.

Date

Program

1

06.10.2020

One Volunteer One tree

2

11.10.2020

Sapling Plantation

3

06.12.2020 to 14.12.2020

Swacchta Pakhwada - Plogging activity

4

04.03.2021

Aadhar Registration Camp

5

06.03.2021

Swacch Bharat - Campus Cleaning activity

6

13.03.2021

Social Service and Community Development activities

7

15.03.2021

**Postal Life Insurance Scheme Awareness Program**

8

18.03.2021

**Blood Donation Camp**

9

21.03.2021

**Campus Cleaning activity**

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

**A. All of the above**

File Description	Documents
Code of Ethics - policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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



festivals

Kongu Engineering College (KEC) provides outstanding supports towards celebrating national and international commemorative days, events, and festivals. 17 cells and clubs are active in KEC for the benefit of students' community. These clubs and cells join together and celebrate various events; for example, National-level events such as Independence Day, Republic Day, Teacher's Day, Gandhi Jayanti, World Student's Day celebration, World Kindness Day celebration, Children's Day celebration, Constitution Day, Engineers Day, Netaji Subash Chandra Bose Jayanti celebration, Ambedkar Birthday, National Unity Day, Armed Forces Flag Day, Parakram Diwas, Swachhata Pakhwada, NSS Day, NCC Day, Surgical Strike Day, Kargil Vijay Diwas Day, Eye Donation Week and so on like World Health Day, International Yoga Day, International Women's Day, World Environment Day, Science Day, IPR Day, World Youth Day, World Consumer Day, World Water Day, World Population Day, World No Tobacco Day and so on. Further, regional festivals like Thai Pongal, Mattu Pongal (Thamizhar Thirunal Festival) are also celebrated.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

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

### 1.TITLE OF THE PRACTICE:

Industry oriented Curriculum Design and Teaching - Learning Process.

### 2.OBJECTIVES OF THE PRACTICE:

- To promote direct industry linkages with the departments and enhance In-plant training, Industry visits, field/site visits, Industry projects and Internship's opportunities to the students and also to train the faculty in the recent advancements

**3.THE CONTEXT:**

The Contextual features or challenging issues addressed are:

- Providing provision in curriculum to accommodate Employability Enhancement Courses (EC) and industry oriented advanced courses satisfying both statutory body requirements and Programme specific demands

**4.THE PRACTICE:**

- 98 MoUs are signed with reputed industries and Government organizations to enhance technical expertise of faculty and students.

**5.EVIDENCE OF SUCCESS:**

- Renowned industries have collaborated with KEC for Centre of Excellence (CoE) establishment: CoE in Robotics and Automation with Fanuc, Bengaluru, CoE in Energy and Building Automation with Schneider Electric India, Bengaluru, CoE in Product design and development for Automotive interior parts with Macbro, Erode, CoE in Data Sciences with Nvidia, Bengaluru and CoE in Energy Studies with Fluke Corporation.

**6.PROBLEMS ENCOUNTERED:**

- Finding slots with industries for student /faculty training during summer and winter vacations and for field visits are becoming difficult.

File Description	Documents
Best practices in the Institutional website	<a href="https://kongu.ac.in/igac/best_practices.php">https://kongu.ac.in/igac/best_practices.php</a>
Any other relevant information	<a href="https://kongu.ac.in/igac/best_practices.php">https://kongu.ac.in/igac/best_practices.php</a>

**7.3 - Institutional Distinctiveness**

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

**"Transform Yourself" for Holistic Development**

The theme of the institute is "Transform yourself" which is an umbrella term that covers major implications for everyone to set his or her mind to transform the self from one level to another level. Though KEC is located in a rural area, it offers opportunities for students at 360° for transforming themselves at various levels, from their admission to a particular course in the institute to the exit, leading to their holistic development, i.e., physically, mentally and emotionally. After admission, the students are given a platform to develop themselves in terms of knowledge, skills, behaviour and attitude. The institute facilitates knowledge enhancement through various teaching-learning methods and through making students to participate in various activities. Using the knowledge gained, the students are able to define a problem, conduct investigations and develop solutions.

The word 'Kongu' in Kongu Engineering College stands for the organized sector of people belonging to south India, who are known exclusively for their discipline and humaneness.

Outcomes achieved by students

The achievements of the students can be viewed in <https://kongu.ac.in/achievements.php>

The achievements illustrate the success of KEC in implementing its core principle "Transform yourself" for the holistic development of students.

File Description	Documents
Appropriate link in the institutional website	<a href="https://kongu.ac.in/achievements.php#">https://kongu.ac.in/achievements.php#</a>
Any other relevant information	<a href="#">View File</a>

7.3.2 - Plan of action for the next academic year

- Improve the Faculty industrial training
- Strengthen the Industrial consultancy activities
- ERP for CO, PO attainment calculation
- Organize refresher training programmes on OBE