SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

KONGU ENGINEERING COLLEGE (AUTONOMOUS)

KONGU ENGINEERING COLLEGE, PERUNDURAI RS ROAD,
THOPPUPALAYAM, PERUNDURAI.
638060
www.kongu.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

May 2021

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Kongu Engineering College (KEC) is one of the first self-financing engineering colleges established in Tamil Nadu. The institution was affiliated to Bharathiar University, Coimbatore from 1984 to 2001 and is affiliated to Anna University since 2001. It has been conferred Autonomous status by UGC since 2007. The institution is approved by AICTE and many of the UG programmes are accredited by NBA Tier 1 under Washington Accord and KEC is accredited by NAAC.

In addition to curricular excellence, the institution focuses on research and lays great emphasis on overall transformation of the students by encouraging various co-curricular and extra-curricular activities.

The institution has established strong industry linkage through the AICTE sponsored Industry Institute Partnership Cell (IIPC). The Technology Business Incubator(TBI) in the campus, established with the grant-in-aid support of DST, GoI is a unique facility for converting innovative ideas into commercial products. The institution has been continuously rated among top five institutions at state level by various surveys conducted by reputed media.

The college has received grants to the tune of Rs. 453.35 lakh during the last five years for research and other activities by different agencies like AICTE, UGC, DST, ICSSR. Kongu Community Radio Station has been established after receiving the approval by Govt. of India for educating the general public living around 15 kilometers. There are two NCC units in the institution, one NCC Army unit with 104 cadets and one NCC Air wing technical unit with 52 cadets. National Services Scheme (NSS) in KEC was established in 1985-86 with 2 aided units having 100 student volunteers per unit for a year to develop the leadership qualities and social consciousness among students. Additionally 1 self-financing unit having 100 student volunteers is also functioning since 2015.

The lush green campus of 167 acres is situated at Perundurai, 20 km from Erode and at about 80 km from Coimbatore.

The institution continues its journey towards excellence by constantly updating its facilities, systems and strategies with active participation of its stakeholders, so as to be of greater service to the nation.

Vision

To be a centre of excellence for the development and dissemination of knowledge in Applied Science, Technology, Engineering and Management for the nation and beyond.

Mission

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.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Rewards and recognition

- A strong public image on quality, reputation, discipline and infrastructural facilities at the college
- 9 UG programmes NBA Accredited under Washington Accord. Fewmore in pipeline
- Accredited by NAAC with A Grade
- Ranked by NIRF since its inception, 2015
- Conferred Autonomous status since 2007
- Best Engineering college / Best Principal Awards from ISTE
- Active TBI which has won National Award for BEST TBI in India
- Branded A ranked institution in the category of private/self-financing institutions by ARIIA-2020
- ISO certified & IE(I) Accredited
- Industry-Institute Partnership Cell (IIPC) with certified Energy Auditors
- Ranked 5th Position in the Cleanest Higher Education Institutions among all the institutions in India by AICTE for the year 2019

Management and Administration

- A highly supportive and motivated management
- Autonomy in Administration with empowerment at different levels
- Transparent and systematic functioning
- Financial strength and stability
- Financial Assistance to needy / deserving students

Academics

- Autonomous status giving freedom and flexibility in academic and related matters
- Broad range of programmes at the UG and PG level

Faculty and students

- 247 faculty members with PhD and 192 pursuing PhD representing the research aptitude of the institution
- Highly experienced faculty with high retention rate
- Highly skilled supporting staff
- Fairly good input (students)
- Good Placement in reputed organizations

Infrastructure and Environment

- A conducive learning environment in a serene, clean and green campus

- Continuous upgradation of academic, research and welfare facilities
- Excellent facilities for co-curricular and extra-curricular activities

Industry Focus / Research

- Dynamic value added courses to meet the changing requirements of the industry
- Good tie-up with industries, MoUs, resulting in higher internship
- Funded projects from various Government agencies
- 10 patents obtained, 3 Design patents granted, 69 patents published; more in pipeline
- Improvement in publications in quality journals and citations
- Nurturing Innovation through Institution Innovation Cell
- Established 3 centers of excellence in collaboration with leading industries

Community Linkage

- Good community Linkage through Kongu Community Radio, NSS, NCC and Rotract
- Scholarship for school toppers and sportsmanship
- Talent show organized to exhibit the talents of school children
- Forums for the benefit of less privileged community

Institutional Weakness

- Location Disadvantage (Rural)
- Communication Skills of students due to diversity lacuna
- Lack of sponsored research laboratories from industries and Govt. organizations
- Limited Tie-ups with foreign universities

Institutional Opportunity

- Acquiring Deemed to be the University or Private University status
- Tapping more research funding
- Leveraging technology for societal cause
- Applied research with the involvement of TBI and IIPC
- Enhancing tie-up with local bodies, government agencies and NGOs
- Leveraging the membership of professional and industry bodies
- Entrepreneurship development through student-faculty entrepreneur development schemes
- IPR and patenting project / research outcomes
- Enhancing internships, industrial tie ups, consultancy and industry projects
- Leveraging Alumni Strength
- Avenues for higher education and competitive examinations
- Design and deployment of e-content for reputed platforms like SWAYAM
- Tie with reputed institutions. Student faculty exchange programme with Foreign and National Universities
- Extending the in-house software development activities

Institutional Challenge

- Declining charm of Engineering education
- Fluctuating market conditions for employment
- Entry of Foreign Universities
- Fast changing requirements and expectations of industries

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Kongu Engineering College, in line with its Vision, Mission and Quality Policy, provides value-based quality education and outcome based learning to the students with the aim to serve the local, national and global community. The Institute offers a variety of under-graduate, post-graduate and research programmes. The curriculum and syllabi of these programmes are dynamically revised based on the guidelines of AICTE, Anna University, Professional Societies and with suggestions received from stakeholders. In order to provide a holistic education, the curriculum is framed with courses under various categories such as Humanities and Social Sciences, Basic Science, Engineering Science, Professional Core, Professional Elective, Open Elective and Employability Enhancement Courses. A flexible system allows students to choose elective courses of their interest across disciplines. A well-established feedback system is in place which helps to enrich the curriculum and syllabi, which is then reviewed and approved by the Boards of Studies and the Academic Council. In addition, value added courses and professional skills training courses are provided to enhance the multidisciplinary skills of the students and to bridge the gap between the curriculum and industry.

Teaching-learning and Evaluation

Kongu Engineering College has adapted Outcome Based Education (OBE) model for its Teaching, Learning and Evaluation (TLE) activities in order to promote the knowledge and skills of the learners. Continuous upgradation ensures the quality and makes the learners equipped. The academic process caters to the diverse range of learners and maintains equity. Slow and advanced learners are identified based on their performance. Slow learners are supported with additional inputs through remedial classes, open book and tutorial tests. Advanced learners are encouraged to attain higher level of excellence through special training programmes and motivated to succeed in competitive examinations and overseas studies in addition to earning credits through NPTEL / Swayam online courses and Internship through fast track system.

The Institute continuously evolves the student centric methods, such as Experiential Learning (field and industrial visits and industry involved courses), Activity Based Learning (interactive session/model and video based/concept mapping/flipped classroom strategy, etc.) and Participative Learning (practical assignments/course related projects /virtual laboratory/quiz/exhibition/hackathon, etc.) to enhance the learning experiences and to supplement classroom teaching. ICT enabled tools are used for effective teaching and learning.

The institute bacame Autonomous institution in 2007 and has flexibility in course design, development and conduct of examinations. A well-defined assessment and evaluation procedure is put in place. The institute uses ERP software to support these activities which ensure transparency and efficiency. The performance of the students can be accessed both by students and parents through institute portal. Online-student feedback on

course and faculty, course monitoring committee feedback, faculty self-appraisal and academic audits are in operation which ensure the quality of teaching, learning and evaluation processes.

Research, Innovations and Extension

The Institution has established Research and Institute Ethics Committee primarily to promote and monitor research and innovation activities among faculty and students of the institute. A total sum of Rs.1 Crore is sanctioned by the college to provide Research Performance Incentive to potential faculty members based on their research outcomes every year. In addition to this, around Rs. 60 Lakh is released as SEED grant by the Management towards promoting and encouraging innovative and Inter-disciplinary research every year. Also, a total grant of Rs. 20 lakh is being provided for the members of faculty by the management for publishing research papers in Scopus, Web of Science Indexed Journals and Rs. 20 lakh is granted by the management to extend support to organize Open House Exhibition on Science and Engineering to display innovative projects done by the students. As a part of promoting research activities, financial assistance is being provided to the members of faculty to attend conferences and seminars. 16 collaborative centres have been established for research and about 77 research projects have been sanctioned for the institute during last five years from government organizations with a total fund of Rs. 453.35 lakhs. During last 5 years, 133 faculty members have completed their Ph.D from our research centre. Approximately 1213 publications in various refereed indexed journals and 363 paper presentations in indexed conference proceedings were made by the faculty. The institution has a well-defined Technology Business Incubator (TBI) in the campus. Till now, 14 patents were granted and 70 patents were filed and published by our faculty and students. Nearly Rs. 55.63 Lakhs has been generated through consultancy, training and testing services and the policy for revenue sharing in consultancy has been fixed at 70:30. Three industry sponsored laboratories have been established at the institution for fostering research activities. The institute has signed 135 MoUs with industries for promoting applied research. The NCC, NSS and other society-oriented clubs of the institute have conducted a number of programmes to create and promote the sense of societal responsibility among students and faculty.

Infrastructure and Learning Resources

Physical facilities

The college has adequate infrastructural facilities like well-developed laboratories, library, projector enabled classrooms, playground, gym, indoor stadium and Wi-Fi enabled campus. KEC campus spread over 167 acres of land richly endowed with beautiful greeneries. It has 209 class rooms, 16 seminar halls and 2 auditoriums inside the campus. The classrooms are provided with 100% ICT facilities. The institution has 13 academic buildings, 7 gents hostels, 3 ladies hostels, amenity centers and 60 residential staff quarters with a total built up area of 2,08,862 sq. m. The unique facility of KEC is its multi-purpose Kongu Convention Centre with a seating capacity of 4500+. The college is also facilitated with Powerhouse, Sewage treatment, solar power plants with 680 kW capacity, RO water station, Dispensary, Transportation facilities, Workshop complex and Food Court.

Sporting Facilities

KEC provides games and sports facilities within the premises. An indoor stadium of 1000 sq.m. housing 3 shuttle courts and 6 table tennis boards are available. The playground spreads over 8 acres with 8 lane 400 m standard track and field. It has well- equipped gym and fitness facilities for Gents (16 stations) and Ladies (6

stations) separately. It also features a clay tennis court, rifle shooting range, two yoga and meditation centers, basketball, volley ball and acupressure walk path.

Library

A central Library furnished with Air-Conditioned reading hall with 450 seating capacity has a collection of 78,158 book volumes and more than 24,582 titles. The digital library has subscribed to 2436 e–journals. Computerized ILMS software is available. An average expenditure of Rs. 43.01 lakh is spent for Library every year.

IT Infrastructure

The campus provides 512 Mbps leased line internet connectivity. 477 Wi-Fi access points are installed across academic buildings and hostels. All academic blocks, campus gates and hostels are under 276 CCTV surveillance cameras. The college offers 2281 computer systems for students to access internet.

Maintenance of Infrastructure

A separate building and electrical maintenance crew is available at the campus. An exclusive web portal is created to redress the grievances regarding the maintenance of plumbing and Transport depot to monitor and control the maintenance processes.

Student Support and Progression

The Institution provides excellent learning ambience at the campus and helps to attain holistic development and progression. The student progress is continuously monitored and facilitated by the Institution. It operates nearly 39 cells/clubs/forums and student chapters to tap innate talents of the students to participate in professional activities. The institution also has an active Student Council that addresses the grievances of the students, considers their suggestions and plan for further improvement. The most important feature of the student support system is that the Institution has an organized guidance and counselling system in the campus. Faculty advisors and counsellors take care of the academic and personal issues of the students. A total of 101 medal and awards were received by the students from various activities/cultural programmes and sports. Further, nearly 600 events were conducted to develop Soft skills, Language and Communication skills, Life skills like Yoga, physical fitness, health and hygiene and programs to create awareness about the trends in technology.

Placement and Training cell of the college provides meticulous training to enhance employability skills of the students. The student chapters of various national and international professional bodies provide enough scope for students to hone their professional skills. The Technical Association in each department acts as an additional platform for the students to enhance the technical and organizational skills. The Institution also conducts coaching classes for GATE, CAT, GRE/IELTS in collaboration with leading vendors every year for those who wish to do their higher studies. More than 2900 students participated in various programmes, activities and coaching classes organised by the Higher education and Competitive Cell and were benefitted. A separate scholarship section is functioning to assist the students to apply for various scholarships and schemes provided for the students by the government and private agencies. 5507 students benefitted out of the scholarship schemes provided by the government schemes, institution's schemes and non-government agencies (NGOs). Alumni play significant role in the academic support and progression. The Institution has an active Alumni Association that contributes significantly to the benefit and progress of its Alma Mater.

Governance, Leadership and Management

Kongu Engineering College assures a healthy and decentralized organizational structure towards attaining its Vision through effective leadership, participative decision making process and transparency in the system.

The enhancement of the overall quality of education in the institute results from the formulation of strategic plan and guidelines with specific goals by the coordination of academic and administrative activities. A highly motivating environment prevails in the institution for both faculty and staff. The faculty receive constant encouragement to participate in professional development and outside interactions. Due priority is given to Research and Development and is evident that 49 % faculty are Doctorates and nearly 44 % are pursuing their PhD. The performance appraisal and the rewards for the deserving faculty members are part of the proven system with an evolved mechanism. The institute takes immense measures in attracting and retaining faculty. Besides, the faculty and staff are provided with a number of welfare schemes.

A well-established procedure and process mechanism has been are adopted for planning and allocating financial resources. The preparation of department and functional budget prompts the framing of Institutional budget with a Participative Management System. The systematic Internal and External audit regulates the whole financial aspects of both income and expenditure of the institution. The institution always aims at a continuous quality improvement and achievement in academic excellence through the Internal Quality Assurance Cell (IQAC), a self-regulating mechanism.

The institute also aims at constantly improving the quality of our educational programs through the continuous monitoring of academic processes, feedback system and the other follow up activities. The institution has a well-designed mechanism for both internal and third party academic audit. With the aid of IQAC, participatory approach is made effective on a regular basis in order to monitor and ensure the quality of academic processes.

Institutional Values and Best Practices

The value systems at Kongu Engineering College (KEC) have been upheld through good teaching-learning process and ethical practices. KEC is constantly working towards attaining gender equity through sufficient facilitation and exclusive awareness programs regularly. Right from its inception, the institute has been conscious towards environmental impact, which are realized through lush green environment on which campus is poised. These green practice efforts have brought AICTE's recognition in the form of "Clean Campus Award" in 2017; Swachh Campus ranking (2019) -- ranked 5th among the cleanest Higher Education Institute in the country and "Clean and Smart Campus Award" during 2019. As a responsible entity, the institute has taken various steps to transform itself into a self-sustaining unit by installing 680 kWp capacity solar power plants during last five years and by implementing rain water harvesting systems in all its buildings. Water conservation is practiced as per 3R (Reduce, Reuse and Recycle) principle through established systems resulting in efficient water usage. The waste management systems in the institute ensure proper segregation, collection and disposal of waste as per Solid Waste Management Rules 2016.

The institute ensures Divyangjan friendliness by providing barrier free environment with ramps, washrooms, lifts, wheel chairs, display boards and assistive technologies for disabled people. Being located in rural area, the institute follows healthy practices to accommodate a variety of diverse needs arising due to cultural, linguistic, communal and socioeconomic differences. The institute provides an inclusive environment to ensure tolerance and harmony through various structured activities. The inmates of the institute are groomed to uphold values,

rights, duties and responsibilities and lead life as responsible Indian citizens. Two best practices followed by institute are: industry oriented curriculum design & teaching-learning process and Clean and Green Practices for Sustainable Environment. These practices ensure that the graduates of the institute are industry-ready engineers helping the nation and beyond. The institution distinct quality is embedded in its commitment to provide a platform for transforming the rural students into technically competent, ethically strong and quality professionals through value based education, research and consultancy activities.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	KONGU ENGINEERING COLLEGE (AUTONOMOUS)
Address	Kongu Engineering College, Perundurai RS Road, Thoppupalayam, Perundurai.
City	Erode
State	Tamil Nadu
Pin	638060
Website	www.kongu.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	V. Balusamy	04294-220583	9942820583	04294-220087	principal@kongu.ac.in
IQAC / CIQA coordinator	U.s.ragupathy	04294-226549	9842851315	04294-225777	accreditation@kongu.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of Establishment, Prior to the Grant of	29-09-1984

'Autonomy'	
Date of grant of 'Autonomy' to the College by UGC	25-07-2007

University to which the college is affiliated		
State	**University name**	**Document**
Tamil Nadu	Anna University	[View Document](#)

Details of UGC recognition		
Under Section	**Date**	**View Document**
2f of UGC	30-01-2003	[View Document](#)
12B of UGC	30-01-2003	[View Document](#)

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	**Recognition/Approval details Institution/Department programme**	**Day,Month and year(dd-mm-yyyy)**	**Validity in months**	**Remarks**
AICTE	[View Document](#)	15-06-2020	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	Department of Scientific and Industrial Research
Date of recognition	25-05-2018

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Kongu Engineering College, Perundurai RS Road, Thoppupalayam, Perundurai.	Rural	82.29	208862

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)

Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	HSC	English	240	117
UG	BE,Mechanical Engineering	48	HSC	English	240	162
UG	BE,Mechatronics Engineering	48	HSC	English	120	96
UG	BE,Electronics And Communication Engineering	48	HSC	English	240	199
UG	BE,Computer Science And Engineering	48	HSC	English	240	240
UG	BTech,Information Technology	48	HSC	English	120	112
UG	BE,Electrical And Electronics Engineering	48	HSC	English	120	100
UG	BE,Electronics And Instrumentation Engineering	48	HSC	English	120	93
UG	BTech,Chemical Engineering	48	HSC	English	120	91
UG	BTech,Food Technology	48	HSC	English	60	45
UG	BE,Automobile Engineering	48	HSC	English	60	24

UG	BSc,Computer Technology	36	HSC	English	60	60
UG	BSc,Computer Technology	36	HSC	English	60	60
UG	BSc,Computer Technology	36	HSC	English	60	60
PG	ME,Civil Engineering	24	BE	English	18	16
PG	ME,Civil Engineering	24	BE	English	6	4
PG	ME,Mechanical Engineering	24	BE	English	6	2
PG	ME,Mechatronics Engineering	24	BE	English	6	1
PG	ME,Electronics And Communication Engineering	24	BE	English	6	1
PG	ME,Electronics And Communication Engineering	24	BE	English	6	1
PG	ME,Computer Science And Engineering	24	BE	English	12	6
PG	Mtech,Information Technology	24	BE	English	6	3
PG	ME,Electrical And Electronics Engineering	24	BE	English	6	3
PG	ME,Electronics And Instr	24	BE	English	6	2

	umentation Engineering					
PG	Mtech,Chemical Engineering	24	BE	English	6	2
PG	Mtech,Food Technology	24	BE	English	18	18
PG	MSc,Computer Technology	60	HSC	English	60	60
PG	MCA,Computer Application	24	UG DEGREE	English	120	83
PG	MBA,Management Studies	24	UG DEGREE	English	120	117
Doctoral (Ph.D)	PhD or DPhil,Civil Engineering	36	ME	English	17	6
Doctoral (Ph.D)	PhD or DPhil,Mechanical Engineering	36	ME	English	95	11
Doctoral (Ph.D)	PhD or DPhil,Mechatronics Engineering	36	ME	English	54	1
Doctoral (Ph.D)	PhD or DPhil,Electronics And Communication Engineering	36	ME	English	48	2
Doctoral (Ph.D)	PhD or DPhil,Computer Science And Engineering	36	ME	English	107	15
Doctoral (Ph.D)	PhD or DPhil,Information Technology	36	ME	English	27	10
Doctoral (Ph.D)	PhD or DPhil,Electrical	36	ME	English	59	14

	And Electronics Engineering					
Doctoral (Ph.D)	PhD or DPhil,Electronics And Instrumentation Engineering	36	ME	English	46	6
Doctoral (Ph.D)	PhD or DPhil,Chemical Engineering	36	ME	English	15	5
Doctoral (Ph.D)	PhD or DPhil,Food Technology	36	ME	English	38	0
Doctoral (Ph.D)	PhD or DPhil,Computer Application	36	MCA	English	12	1
Doctoral (Ph.D)	PhD or DPhil,Management Studies	36	MBA	English	51	3
Doctoral (Ph.D)	PhD or DPhil,Mathematics	36	MPhil	English	62	0
Doctoral (Ph.D)	PhD or DPhil,Physics	36	MPhil	English	54	2
Doctoral (Ph.D)	PhD or DPhil,Chemistry	36	MPhil	English	54	0
Doctoral (Ph.D)	PhD or DPhil,English	36	MPhil	English	5	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				65				110				354
Recruited	42	23	0	65	63	47	0	110	193	161	0	354
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				208
Recruited	139	69	0	208
Yet to Recruit				0

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Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				263
Recruited	230	33	0	263
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	38	23	0	60	47	0	50	40	0	258
M.Phil.	0	0	0	0	0	0	11	31	0	42
PG	4	0	0	3	0	0	132	90	0	229

Temporary Teachers									
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers									
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	65	8	0	73

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	1060	4	0	0	1064
	Female	398	3	0	0	401
	Others	0	0	0	0	0
PG	Male	162	5	0	0	167
	Female	152	0	0	0	152
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	2	0	0	0	2
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	134	113	84	67
	Female	53	58	27	26
	Others	0	0	0	0
ST	Male	1	2	1	1
	Female	3	1	1	1
	Others	0	0	0	0
OBC	Male	1190	1226	1272	1226
	Female	752	656	638	559
	Others	0	0	0	0
General	Male	44	64	56	66
	Female	33	28	34	28
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		2210	2148	2113	1974

2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Automobile Engineering	[View Document](#)
Chemical Engineering	[View Document](#)
Chemistry	[View Document](#)
Civil Engineering	[View Document](#)
Computer Application	[View Document](#)
Computer Science And Engineering	[View Document](#)
Computer Technology	[View Document](#)
Electrical And Electronics Engineering	[View Document](#)
Electronics And Communication Engineering	[View Document](#)
Electronics And Instrumentation Engineering	[View Document](#)
English	[View Document](#)
Food Technology	[View Document](#)
Information Technology	[View Document](#)
Management Studies	[View Document](#)
Mathematics	[View Document](#)
Mechanical Engineering	[View Document](#)
Mechatronics Engineering	[View Document](#)
Physics	[View Document](#)

Extended Profile

1 Program

1.1

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
33	33	33	33	33

File Description	Document
Institutional data in prescribed format	[View Document](#)

1.2

Number of departments offering academic programmes

Response: 14

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
8032	8282	8390	8316	8152

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.2

Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
2262	2299	2296	2212	2132

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.3

Number of students appeared in the examination conducted by the Institution, year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
7984	8197	8274	8225	8012

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.4

Number of revaluation applications year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
297	353	296	389	354

3 Teachers

3.1

Number of courses in all programs year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1408	1527	1392	1356	1274

File Description	Document
Institutional data in prescribed format	[View Document](#)

3.2

Number of full time teachers year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
506	533	545	536	517

File Description	Document
Institutional data in prescribed format	[View Document](#)

3.3

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
506	533	545	536	517

File Description	Document
Institutional data in prescribed format	[View Document]

4 Institution

4.1

Number of eligible applications received for admissions to all the programs year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
2156	2334	2383	2469	2545

File Description	Document
Institutional data in prescribed format	[View Document]

4.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
957	957	957	957	957

File Description	Document
Institutional data in prescribed format	[View Document]

4.3

Total number of classrooms and seminar halls

Response: 227

4.4

Total number of computers in the campus for academic purpose

Response: 2281

4.5

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
2516.09	2380.22	2859.39	2349.10	2715.81

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curriculum Design and Development

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

Response:

Kongu Engineering College strives to serve the nation and beyond by offering value-based quality education and outcome-based learning to the students. The curriculum and syllabi are framed based on the guidelines of AICTE, UGC, Anna University, and Professional Societies. Programme Outcomes and Programme Specific Outcomes are formed based on the graduate attributes of NBA. Choice Based Credit System (CBCS) oriented Curriculum and Course Outcomes (CO) with suitable Bloom's level for the various courses are framed by getting suggestions and feedback from all stakeholders including students, teachers, employers, alumni and parents. The draft syllabi framed by internal faculty experts, based on the COs, are then reviewed and approved by Boards of Studies and Academic Council.

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 Human Values in the curriculum 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.

Since the majority of the students at KEC are from rural areas and many of them are first graduates, 2 theory courses and one/two practical courses are provided in the curriculum of all UG programmes for improving their English communication skills. Professional Skill Training Phase-I and Phase-II with minimum 80 hours each and 2 credits each are provided in all UG programmes.

To assess the knowledge of students, question papers for the continuous assessment tests and end semester examinations are prepared with desired Bloom's Taxonomy levels. To showcase the practical knowledge gained, students are made to complete 2 or 3 projects as part of the curriculum. Apart from academic projects, students also design and fabricate mini projects with college funding and with the support from the Technology Business Incubator (TBI) and exhibit them during the Open House Exhibition/Talent show conducted by the institution. 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.

Students are provided with the flexibility of taking additional courses in the early semesters and earn more credits under the fast-track scheme. Such students, in the final year, are permitted to go for one year/one semester full time internship. 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	Document
Any additional information	[View Document]()

1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.

Response: 100

1.1.2.1 **Number of all Programmes offered by the institution during the last five years.**

Response: 33

1.1.2.2 **How many Programmes were revised out of total number of Programmes offered during the last five years**

Response: 33

File Description	Document
Minutes of relevant Academic Council/BOS meeting	[View Document]()
Details of program syllabus revision in last 5 years(Data Template)	[View Document]()
Any additional information	[View Document]()

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

Response: 85.5

1.1.3.1 **Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years..**

2019-20	2018-19	2017-18	2016-17	2015-16
1156	1463	1234	1131	988

File Description	Document
MoU's with relevant organizations for these courses, if any	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Average percentage of courses having focus on employability/ entrepreneurship(Data Template)	View Document
Link for Additional Information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

Response: 41.05

1.2.1.1 How many new courses are introduced within the last five years

Response: 571

1.2.1.2 **Number of courses offered by the institution across all programmes during the last five years.**

Response: 1391

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document

1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).

Response: 100

1.2.2.1 **Number of Programmes in which CBCS / Elective course system implemented.**

Response: 33

File Description	Document
Minutes of relevant Academic Council/BOS meetings	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

1.3 Curriculum Enrichment

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

Response:

Gender Equality:

Kongu Engineering College (KEC) inculcates social values relevant to gender, environment and sustainability, human values and ethics by incorporating relevant courses in the curriculum and by conducting supporting activities for the staff and students to develop a vibrant atmosphere on the campus. KEC provides equal opportunities to the students, faculty and staff in all spheres without any gender discrimination. Presently, around 35% of the students in the college are girls and 44% of the faculty are females.

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 activities, co-curricular activities such as students' associations, paper/project presentations, professional society related activities, activities in various clubs, students' councils and class monitoring committee meetings, other leadership roles etc. and extracurricular activities such as NCC, NSS, Sports and Culturals. The Women Development Cell (WDC) in KEC motivates and strives to enhance the activities of female students, faculty and staff.

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. In addition to the curriculum, to create an eco-friendly environment, students get actively involved in student-centric clubs such as Energy and Environmental Conservation Club, Pasumai Vanam etc. The institution has 680 kW of Solar power generation facility, Effluent water treatment plants, Rain water harvesting facilities etc. to support an environment friendly atmosphere. In recognition of the efforts taken, KEC received the AICTE Clean Campus Award in 2017, AICTE Clean and Smart Campus Award, One Student One Tree Award, and AICTE Swachh Campus Award for the cleanest higher educational institute in 2019.

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. Yoga education is provided to all UG students and two exclusive yoga halls are available in the institution with one regular yoga master.

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. Students-centric clubs such as NSS, NCC, Yoga and Meditation Club, Cultural Club etc. provide active forums to students to develop ethical and human values. In addition, helping children of orphanages is one of the activities through which students directly practice the learnt values. As mentioned in the Vision and Mission statement of the institution, value-based education is an important objective of the institution.

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	[View Document](#)

1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

Response: 127

1.3.2.1 **How many new value-added courses are added within the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
13	38	26	23	27

File Description	Document
List of value added courses (Data Template)	[View Document](#)
Link for Additional Information	[View Document](#)

1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.

Response: 83.57

1.3.3.1 **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
6804	7185	7924	5465	7027

File Description	Document
List of students enrolled	[View Document](#)
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)

Response: 34.08

1.3.4.1 **Number of students undertaking field projects / internships / student projects**

Response: 2737

File Description	Document
List of programs and number of students undertaking field projects / internships / student projects (Data Template)	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni

Response: A. All 4 of the above

File Description	Document
Action taken report of the Institution on feedback report as minuted by the Governing Council, Syndicate, Board of Management	[View Document](#)
URL for stakeholder feedback report	[View Document](#)
Link for Additional Information	[View Document](#)

1.4.2 The feedback system of the Institution comprises of the following :

Response: A. Feedback collected, analysed and action taken and report made available on website

File Description	Document
URL for stakeholder feedback report	View Document
Link for Additional Information	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 96.09

2.1.1.1 **Number of students admitted year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2156	2334	2383	2469	2545

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2469	2469	2469	2469	2493

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 68.99

2.1.2.1 **Number of actual students admitted from the reserved categories year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
591	659	654	699	698

File Description	Document
Institutional data in prescribed format	View Document
Link for Additional Information	View Document

2.2 Catering to Student Diversity

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

Response:

Students from diverse demographic and academic profile join the institution. The college environment and the institute culture are new for the students. So, an o**rientation program** is offered to the first year students to know about the college, infrastructure facilities, academic and administrative regulations and procedures. Students in the first year after admission are classified on the basis of their medium of study and specialization in Higher Secondary (Bio-Maths / Computer / Vocational). **English communication skill training** is provided for the students from Tamil medium background and **coaching class for Mathematics** has been arranged to improve the analytical skill for Biology students.

The institution periodically assesses the performance of students through **Continuous Assessment Test, Assignment, Tutorial, Other assessment and End semester examination**. Based on the students' performance, the **slow and advanced learners** are identified and steps will be taken to fulfill their needs.

Programmes for Advanced Learners:

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 project work in various reputed industries/institutions.

Programmes for Slow Learners:

Slow learners are given additional inputs by conducting **remedial classes and open book test**. When required, the students can contact the faculty members for clarifying their doubts. **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.

File Description	Document
Any additional information	[View Document](#)

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

Response: 15.87

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

Response:

Kongu Engineering College (KEC) considers academics as the major focal point. KEC follows student centric model, that targets to provide different learning aspects. Outcome Based Education (OBE) is a transformational method that focuses on evaluating the outcomes of the programme by stating the knowledge, skill and behavior of a graduate. It emphasizes the design of curriculum, outcome based teaching-learning, assessment and evaluation. KEC effectively implemented OBE through activity based learning that includes experiential learning, participative learning and problem solving methodologies.

Experiential Learning:

- Reinforcement learning among the students in KEC is achieved through **model based/practical oriented teaching**. Apart from the regular laboratory sessions, mini projects in theory courses enable the students to develop working models demonstrating the skills of learning
- **Open House Exhibitions and Idea Presentation** events conducted in the institution explore the practical potential among the students
- **Industrial visits** are regularly arranged to enhance the practical knowledge of the students where they get an exposure to relate the theory with the processes adapted in the industry. Visits to CDAC Bangalore, HMT industries Pvt. Ltd., LOTTE Union Corporation Ltd. and HyKon Electronics are a few to mention
- Under the guidance of Industry Institute Partnership Cell (IIPC), students undergo **In-plant training** during semester holidays and enrich their practical knowledge
- **Field visits** as part theory course are introduced to appreciate the real time learning among 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
- Activities like **group assignments**, team work in laboratory sessions, **developing prototype/ working models** ensures teamwork among the students
- Promotion of creativity and critical thinking among the students is accomplished through **Professional Societies** (like IEEE, IETE) and various **clubs**

- Students actively participate in many competitions like **HACKTHON, Start Up Mania** and have an opportunity to interact with industry persons and effective use of TBI@KEC
- KEC has collaboration with **foreign universities** for **research internship** and equip the students for global competitions
- **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
- **Collaborative learning model** is adopted to enhance problem solving skills
- **Simulation tools and Virtual labs** are effectively used to provide hands on experience to students in analytical/ Problem Solving approaches

File Description	Document
Link for Additional Information	[View Document](#)

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

Response:

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 employed for listening and communication skill practice

- **Google classrooms** are used to post course contents, conduct quizzes, maintain lab records and assignments

- **Virtual laboratories** are used to conduct lab sessions using simulation and programming modules

- ○ **Online drawing tools** like concept maps and mind maps are used for student centric activities
- ○ **e-PPTs** with animations and simulations are utilized to inculcate theoretical concepts in a lucid manner
- ○ **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	Document
Any additional information	[View Document](#)
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	[View Document](#)

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

Response: 16:1

2.3.3.1 **Number of mentors**

Response: 508

File Description	Document
Circulars pertaining to assigning mentors to mentees	[View Document](#)

2.3.4 Preparation and adherence of Academic Calendar and Teaching plans by the institution

Response:

The college adheres to academic calendar provided by the Controller of Examinations office (CoE) 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. Governing Council members were constituted for monitoring the regular activities of CoE.

The Principal conducts curricular and extracurricular review meetings on regular intervals to check the implementation and progress of various activities given in the academic plan. Working period in the academic calendar indicates the annual working period of the teachers including working days, CAT and ESE dates and important college events as per the academic plan.

File Description	Document
Upload Academic Calendar and Teaching plans for five years	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years(Data Template)	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 34.04

2.4.2.1 **Number of full time teachers with *Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.* year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
219	196	180	163	138

File Description	Document
Institutional data in prescribed format (Data Template)	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest

completed academic year in number of years)

Response: 10.56

2.4.3.1 **Total experience of full-time teachers**

Response: 5345

File Description	Document
Institutional data in prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

Response: 34.4

2.5.1.1 **Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
34	30	36	36	36

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document

2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

Response: 4.15

2.5.2.1 **Number of complaints/grievances about evaluation year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
297	353	296	389	354

File Description	Document
Number of complaints and total number of students appeared year wise	**View Document**
Link for Additional Information	**View Document**

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

Response:

The office of Controller of Examinations (CoE) introduces several reforms in Examination System which impacted positively on various aspects of the system. The yearly academic events planned and approved by the academic committee will be circulated to all students, and also uploaded in the college website. A regulation book which consists of all academic rules, regulations, course structures and syllabi will be provided to the students. All the examination and evaluation process are carried out with the help of in-house developed software.

Reforms in the examination procedures and processes:

Assessment and Examination Procedure:

 A candidate shall normally be permitted to appear for End Semester Examination (ESE) of the current semester, if he/she satisfies the semester completion requirements. Registration is mandatory for current and arrear semester examinations. In order to avoid partiality/favoritism and maintain confidentiality, ESE answer scripts are assigned with dummy numbers using bar-coding system developed by CoE office. The students are allowed to see their photocopied answer scripts and they can apply for revaluation with specific appeal. The appeal will be examined by the faculty and verified by the HoD, which improves fairness. Examination squads are constituted for ensuring the fair conduct of examinations and adherence of norms. Academic audit will be done for the ESE question papers by experts from various premier institutions to ensure the quality and improvement.

Performance of each course shall be evaluated by (i) Continuous Assessment (CA) throughout the semester (ii) End Semester Examination (ESE) and it shall be evaluated for the maximum of 100 Marks.

   1. Question Paper Pattern and Setting:

All the questions for the exams must follow Bloom's Taxonomy. It is mandatory that questions in part B should maintain the same level of difficulty, as it follows either/or type pattern. Examiners for setting ESE question papers and evaluating answer scripts shall be appointed by the Controller of Examinations from the panel of examiners given by the Chairman, Board of Studies after the approval from the Principal. Two Question Papers (QP), one by internal faculty and another by an external faculty are solicited for all regular courses. Any one question paper will be selected by the CoE. QP scrutiny is done by subject experts before the commencement of examinations. If any wards or blood relatives are studying, they are not considered for examination related activities.

1. End Semester Examination Grade Assessment Procedure:

Regulations 2018: ESE theory courses will be conducted for 100 marks [Part A: 10 X 2 =20 and Part B (either/or): 5 X 16 = 80].The marks obtained in the ESE for 100 shall be reduced to 50 marks and then summed up with the internal assessment marks of 50 for a total of 100 marks. Based on the marks obtained, the following grade will be allotted for each subject.

Range of Marks in %	91-100	81-90	71-80	61-70	50-60	Less than 50 Re-Appear	Absent
Letter Grade	O	A+	A	B+	B	RA	AB
Grade Points	10	9	8	7	6	0	---

Regulations 2014: ESE for theory courses are conducted for 100 marks [Part A: 10 X 2 =20, Part B (either/or): 5 X 13 = 65 and Part C (case study - either/or): 1 X 15 = 15]. The end semester examination marks are reduced to 60 marks and then summed up with the internal assessment marks of 40 for a total of 100 marks. Based on the marks obtained, the following grade will be allotted for each subject.

Range of Marks in %	90-100	80-89	70-79	60-69	55-59	50-54	Less than 50 Re-Appear	Absent	Wi dra
Letter Grade	S	A	B	C	D	E	RA	AB	W
Grade Points	10	9	8	7	6	5	0	---	---

In regard to laboratory assessments, each laboratory course has ten to twelve experiments. These courses are planned to test the skill sets of the students. In 2018 Regulation, the continuous assessment shall be for 100 marks. 50 Marks shall be evaluated based on the candidate's performance during the practical class, final assessment examination shall be conducted for 50 marks and these marks are summed up for100 marks. 2014 Regulation follows the same procedure except the experiment evaluation is for 75 marks and final assessment for 25 marks.

In 2014 & 2018 regulation, Project work which tests the ability of a student to apply their gained knowledge and skill in the programme. To evaluate Project work three project reviews will be conducted including viva-voce and demonstration. Based on the presentation and demo the project marks are awarded.

In both regulations, the open book test and online tutorials containing Multiple Choice Questions are newly introduced and are accounted for the *Continuous Internal Assessment* through Office Automation. This certainly brought improvement in logical thinking and problem solving ability of the students, which benefit of the students to excel in placements and competitive examinations.

- 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. In house software is used for Internal mark calculation, Result passing, Analysis and Declaration of the result
5. Students' daily attendance and Marks scored for CA test are entered in 'Inspro Plus' Automation system
6. Previous question papers as archives, examination schedule and ESE results are published in the website for easy access
7. Photo copier machine and Colour Printer interfaced with computers
8. Students' verification is done through online and digital mode
9. Online transcript system is implemented for the passed out students

The CIA system is given as additional information for reference. From the college website the stakeholders and the public can view the information related to Assessment procedure, Continuous Internal Assessment System etc.

Website link: http://coe.kongu.edu/Regulations

File Description	Document
Any additional information	View Document

2.6 Student Performance and Learning Outcomes

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

Response:

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 works). As per the bloom's taxonomy, the COs are mapped with appropriate levels of Knowledge, Skill and Attitude domains (KSA) and in turn are mapped with appropriate POs in 3-point scale (3- substantial, 2- moderate and 1-slight). The framed COs are approved by Board of Studies. The COs of each course are discussed with the students at the beginning of each unit by the course faculty. Also, the COs are mentioned in the continuous assessment test and end semester examination question paper along with its knowledge level for each question.

The POs, PSOs and COs are published in the college websites 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:

- Displayed in College Website
- Course Plan given to the students at the beginning of each semester indicating POs, PSOs and COs
- Discussion in the Induction Programme
- Displayed in the department prominent places like:
  - HOD Room
  - Class Rooms
  - Laboratories
  - Display Boards
  - College Calendar
  - Faculty Cabins
  - Seminar Hall

File Description	Document
Upload COs for all courses (exemplars from Glossary)	[View Document](#)

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

Response:

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

Direct Assessment:

The evaluation tools and frequency of evaluation of direct assessment are detailed below.

Courses offered	Evaluation tools	Frequency of evaluation	
Theory Courses	Cumulative Internal Assessment (CIA)		
	Continuous Assessment Tests (CAT)	Three per semester	
	Assignments	One / Two per semester	
	Seminar / Tutorial / Quiz / Practical Oriented Assessment / Mini Project etc.	One per semester	
	Semester End Examination (SEE)		
	End Semester Examination	One per semester	
Laboratory Courses	Continuous Assessment (CA)	Continuous for each experimen	
	Model Examination	One per semester	

Design Project and Project work	Continuous assessment through Reviews and Report	Periodic Reviews and Final viva end of the semester
Value Added Courses / One Credit Courses	Assessment Test	One per semester

For all the above mentioned evaluation tools, the attainment of all COs in each course is computed based on the knowledge level after setting the expected attainment level. The overall attainment of COs evaluated through Cumulative Internal Assessment (CIA) and Semester End Examination (SEE) is calculated as follows:

Overall attainment of COs (Theory) = 0.4*CIA attainment+ 0.6*ESE attainment

Similarly, for the laboratory courses, the overall attainment is calculated as follows:

Overall attainment of COs (Practical) = 0.75*CA attainment + 0.25*Model Exam attainment

POs and PSOs attainment through direct assessment are calculated for each course as follows:

PO & PSO attainment = (Overall COx Attainment)* (Mapping value of PO and PSO for CO x) 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	Document
Any additional information	[View Document](#)

2.6.3 Pass Percentage of students(Data for the latest completed academic year)

Response: 76.22

2.6.3.1 **Total number of final year students who passed the examination conducted by Institution.**

Response: 1724

2.6.3.2 **Total number of final year students who appeared for the examination conducted by the Institution.**

Response: 2262

File Description	Document
Upload List of Programmes and number of students passed and appeared in the final year examination(Data Template)	
Any additional information	
Link for the annual report	

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.29

File Description	Document
Upload database of all currently enrolled students	

Criterion 3 - 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

Response:

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 and engaged in the stream of research activities along with their academic activities. The main objectives of R&D are:

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

With the above said objectives, faculty members are encouraged to apply for research project / Seminar / Conference / Workshop proposals for various funding agencies. The faculty members are provided with financial support for attending, presenting papers in National / International Conferences and for publishing papers in journals too. Urkund / Turnitin- Ithenticate plagiarism software packages are utilized before submitting the research papers/project proposals to check their similarity index (<15%) to avoid plagiarism and then forwarded to the selected platforms. In addition to the funds received from funding agencies, the Institution also provides SEED money to all the young and potential faculty members for carrying out internal projects and encourages them in their research related activities. Collaborative research is also encouraged with MOU and Consultancy activities.

- Financial assistance is being provided to the faculty / staff / students for filing of patents/other IPR related activities by the institution. The full-time research scholars are provided with stipend.
- The faculty members publishing papers in Web of Science (SCI/SCIE/SSCI) & Scopus indexed journal are appreciated and provided incentives.
- Performance incentives are also given to all the eligible faculty members with PhD qualification based on their research performance evaluation i.e. research publications, patents and extramural funded projects

The Institute encourages the faculty members to collaborate with other higher institutions of learning and research organizations within India and abroad to establish networks for pursuing their research / publishing their papers.

File Description	Document
Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<u>View Document</u>
URL of Policy document on promotion of research uploaded on website	<u>View Document</u>

3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

Response: 11.13

3.1.2.1 **The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).**

2019-20	2018-19	2017-18	2016-17	2015-16
0	55.64033	0	0	0

File Description	Document
Minutes of the relevant bodies of the Institution	<u>View Document</u>
List of teachers receiving grant and details of grant received	<u>View Document</u>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<u>View Document</u>
Any additional information	<u>View Document</u>

3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

Response: 0.57

3.1.3.1 **The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
03	04	01	05	02

File Description	Document
List of teachers and their international fellowship details	[View Document](#)
e-copies of the award letters of the teachers	[View Document](#)

3.2 Resource Mobilization for Research

3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 456.34

3.2.1.1 **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
189.00	80.7	125.44	26.76	34.44

File Description	Document
List of project and grant details	[View Document](#)
e-copies of the grant award letters for research projects sponsored by government and non-government	[View Document](#)

3.2.2 Percentage of teachers having research projects during the last five years

Response: 3.11

3.2.2.1 **Number of teachers having research projects during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
35	13	14	15	5

File Description	Document
Names of teachers having research projects	[View Document](#)
Link for additional information	[View Document](#)

3.2.3 Percentage of teachers recognised as research guides

Response: 28.85

3.2.3.1 **Number of teachers recognized as research guides**

Response: 146

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	
Any additional information	
Link for additional information	

3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

Response: 58.57

3.2.4.1 **Number of departments having Research projects funded by government and non-government agencies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
10	8	9	9	5

3.2.4.2 **Number of departments offering academic programes**

2019-20	2018-19	2017-18	2016-17	2015-16
14	14	14	14	14

File Description	Document
Supporting document from Funding Agency	
List of research projects and funding details	
Any additional information	
Paste link to funding agency website	

3.3 Innovation Ecosystem

3.3.1 Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.

Response:

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.

Technology Business Incubator:

The Technology Business Incubator (TBI@KEC) was established in 2003, as a joint venture by KEC with the grant-in-aid and support of National Science and Technology Entrepreneurship Development Board, DST, Govt. of India at a cost of Rs.3.95 crore. It promotes innovation and entrepreneurship in cutting edge technology areas. The TBI has established NIDHI PRAYAS Shala–Rapid Prototyping lab for hardware startups, at a cost of 1 crore. In the last 5 years, TBI@KEC incubated 34 startups, 11 of which are by alumni from Erode, Coimbatore, Chennai and Bangalore. So far, 23 products have been launched, benefitting various sectors of economy and society and 24 incubatees received financial support of Rs.2.125 crore. The DST under NIDHI PRAYAS scheme had sanctioned Rs.7 crore to TBI@KEC and supported 22 innovators with total of Rs.1.858 crore to convert their ideas into prototypes / products. Eleven out of 22 PRAYASEEs have got DPIIT Startup Certificate and 1 got Inter Ministerial Board (IMB) approval for TAX exemption. Totally 5 patents have been granted out of 17 filed and 11 Awards were won by incubatees. Various Funding agencies so far have granted Rs. 3.9 crore to the incubatees for carrying out several activities. Around 10 exhibitions were conducted to encourage them. The TBI generated 197 jobs in the last five years and helped incubates to launch several products. The latest 6 products (of PRAYASEEs) were launched by Shri.H.K.Mittal, Head & Adviser - NSTEDB/DST/GoI on 24.05.2019.

Community Radio:

Kongu Community Radio Service (Kongu CRS), established in 2005, serves the cause of the people through programmes on education, health, environment, agriculture, rural and community development. The format, presentation, language and subject reflect local aspirations and needs. While 50 % of the events are offered by the local community, many others help in enhancing the general welfare and social fabric of the local people.

Institution's Innovation Council:

Institution's Innovation Council (IIC@KEC) has created an ecosystem for supporting young minds towards innovation and entrepreneurship. It provides assistance for successful start-ups and also promotes faculty start-ups. They are encouraged to convert innovative ideas into working prototypes. The Council trains youngsters on problem-solving, concept development, design thinking and IPR.

Entrepreneurship and Management Development Centre:

The EMDC Centre, launched in 1996 with a financial support of 7 lakhs from AICTE, aims at spreading awareness among students and staff about the value of entrepreneurship. EMDC@KEC also promotes entrepreneurship as a viable career and provides pre-incubation support. It organizes Sponsored

Entrepreneurship Awareness Camps, Start-up Mania, Idea contest, Women Entrepreneurship Development Programme, Workshops and FDPs for its beneficiaries periodically.

File Description	Document
Upload any additional information	[View Document]
Paste link for additional information	[View Document]

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development during the last five years.

Response: 181

3.3.2.1 **Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
95	27	17	18	24

File Description	Document
Report of the event	[View Document]
List of workshops/seminars during last 5 years	[View Document]
Any additional information	[View Document]

3.4 Research Publications and Awards

3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee

Response: C. 2 of the above

File Description	Document
Link for additional information	[View Document]

3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/ supervisors provided at 3.2.3 metric) during the last five years

Response: 1.96

3.4.2.1 How many Ph.Ds are registered within last 5 years

Response: 286

3.4.2.2 Number of teachers recognized as guides during the last five years

Response: 146

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
URL to the research page on HEI web site	View Document

3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 2.3

3.4.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
309	268	286	133	217

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years

Response: 0.69

3.4.4.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
112	52	79	57	63

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4.5 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

Response: 3.2

File Description	Document
Bibliometrics of the publications during the last five years	View Document

3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Response: 23

File Description	Document
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View Document

3.5 Consultancy

3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).

Response: 47.82

3.5.1.1 **Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

2019-20	2018-19	2017-18	2016-17	2015-16
8.18	13.48	9.33	7.96	8.87

File Description	Document
List of consultants and revenue generated by them	View Document
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View Document
Any additional information	View Document

3.5.2 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).

Response: 7.81

3.5.2.1 **Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
0.61	2.55	1.54	1.88	1.23

File Description	Document
List of training programmes, teachers and staff trained for undertaking consultancy	View Document
List of facilities and staff available for undertaking consultancy	View Document
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View Document

3.6 Extension Activities

3.6.1 Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years

Response:

To spruce up our students with social responsibility, they are encouraged 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 in the neighborhood community. Some of the significant social activities conducted for the benefit of nearby communities are:

1. Five villages have been adopted under Unnat Bharat Abhiyan Scheme

2. School adoption programme is being conducted in collaboration with the School Education Department

3. Lake cleaning and nature conservation programs in Salem and Dharmapuri districts

4. Awareness program on organic farming in association with Tamil Nadu Agricultural University, Coimbatore

5. Awareness rally conducted by addressing societal issues

6. Awareness program on tree plantation to Government high school students, Thiruvachi

7. Thoorigai, an exclusive program for differently abled children is conducted every year

8. Actively involved in the flood relief activities in Kerala, Cuddalore and Chennai

9. Conducted skill development training program for Orphanage students

10. Swaram, a fund-raising event is conducted every year and funds donated to the needy. Rs.2,50,000/- for heart surgery for two kids (2015-16), Rs.2,50,000/- for government schools and orphanages (2016-17) and Colposcope Equipment for IRTT Medical College (2018-19).

11. Blood donation camps are being organised every year.

12. Conducted Heath run programs for general public

13. Conducted survey on various societal issues and submitted the report to district administrative authorities

File Description	Document
Upload Any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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 last five years

Response: 10

3.6.2.1 **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
7	0	1	1	1

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 65

3.6.3.1 **Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
15	16	13	9	12

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

Response: 9.31

3.6.4.1 **Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
740	839	1043	604	614

File Description	Document
Reports of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document
Any additional information	View Document

3.7 Collaboration

3.7.1 Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

Response: 394.8

3.7.1.1 **Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work**

2019-20	2018-19	2017-18	2016-17	2015-16
745	460	330	247	192

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document
Any additional information	View Document

3.7.2 Number of functional MoUs with institutions of national, international importance, other institutions, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 98

3.7.2.1 **Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
22	45	17	10	4

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other Institutions etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

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

Classrooms, Drawing Halls and Seminar Halls:

The institution has totally 209 classrooms with Wi-Fi connectivity. Out of 209 classrooms 88 classrooms have LCD Projectors. Each classroom has adequate seating capacity based on sanctioned intake. Eight Drawing Halls are available based on the requirements of the curriculum. Each Department has Seminar Hall for conducting Department level programs such as association activities and programs related to the professional bodies of the department. Totally 16 Seminar Halls are available. Our college has a centralized Air Conditioned multipurpose Convention Center with a seating capacity of 4500+ to conduct College level programs and another auditorium, Maharaja Auditorium with a seating capacity of 500+. Each department has various Laboratories, Department Library and Department Computer Center.

Each Department has well-equipped laboratory facilities over and above the mandatory AICTE requirements. There are totally 158 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. Each department also has its own Department Library for the benefit of students and staff. Each department has computer centers, with adequate number of computers with LAN and Internet facilities.

Computing facilities

Totally 2603 computer systems, connected to internet through a leased line with a bandwidth of 512 Mbps with Fortinet firewall, 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 477.

E-Resources

Study materials and online video lectures for each subject are posted in the Google Classroom which would help the students in their learning. Such materials can be viewed by the students during their study time. Online tutorials, quizzes and assignments are also conducted using Google Classroom.

General Facilities

The institution is spread over 166.997 acres of land with a built-up area of 2,08,862 sq.m. An extensive Transport facility with a fleet of 83 buses and other vehicles is available. The college campus has 13 academic buildings, 7 Gents Hostels, 3 Ladies Hostels, 60 Residential Staff Quarters, Food Courts, Students' Amenity Centre, and other essential facilities. In order to provide students and staff with the

basic medical facilities, two residential doctors and 2 ambulances are available 24×7. In order to support the physical and mental fitness, separate Gymnasium facility is available for Boys and Girls, and Yoga and Meditation Centres are available. The entire campus has uninterrupted electric power supply supported by 3125 kVA captive power generator and water supply 24×7. Drinking water, throughout the campus, is supplied by RO Mineral Water Plant with a capacity of 12000 litres per hour in the campus. The campus has post office, and the Karur Vysya Bank with 5 ATMs including a CDM. The wastewater from hostels is treated using Wastewater Treatment Plant and used for maintaining the greenery in the college campus.

File Description	Document
Upload Any additional information	[View Document](#)

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

Response:

Kongu Engineering College gives high importance to instill the spirit of sportsmanship among the students to help them to learn discipline, leadership quality, team work and to lead a healthy life. The institute has more than adequate infrastructure for such activities.

SPORTS AND GAMES FACILITIES

The Department of Physical Education facilitates the students with all the equipment in their practice and motivates them to participate in both the indoor and outdoor games and sports. KEC provides full free education with free boarding and lodging for 15 students every year under sports quota. KEC conducts Kongu trophy - an annual state level Inter-collegiate tournament in ten disciplines for both men and women and organizes coaching camps for Badminton, Basketball, Tennis, Table-Tennis, Volleyball, Football, Hockey, Kabaddi and Athletics every-year.

Indoor Facilities

There is a multipurpose Indoor Stadium housing 3 Badminton Courts, one Volleyball Court and 6 Table Tennis Boards. An Indoor Gallery with 250 seating capacity is available. Total area of Indoor stadium is 1002 Sq.m.

Outdoor Facilities

Total area of play field – 8 acres.

Outdoor Sports and Games facilities:

S.No	Outdoor Facilities	Nos
1	Athletic Track - 400 MTS	01
2	Ball Badminton with Flood Light	01
3	Basketball Court with Flood Light	03

4	Cricket Field	01
5	Cricket Nets (Concrete)	02
6	Football Field	01
7	Hockey Field	01
8	Handball Court	01
9	Kho - Kho court	01
10	Kabaddi Court with Flood Light	01
11	Obstacle Race	01
12	Tennikoit court	03
13	Tennis Clay Court with Flood Light	02
14	Tennis Wall Practice	01
15	Volleyball Court with Flood Light	03
16	Acupressure Walk Way	01
17	Parallel Bars	01
18	Horizontal Bar	01
19	Roman Ring	01
20	Rope Climbing	01

Gym Facilities

A Gents Gym with 3130 square feet and Ladies Gym with 650 square feet are available.

The students are trained and motivated to participate and win medals and prizes in various competitions at District, Zonal, University and National levels. Zonal level, State level, TIES (Tamil Nadu Inter Engineering Sports) competitions are being often arranged in the college on request. Inter college faculty Tournaments are also conducted every-year.

CULTURAL FACILITIES AND ACTIVITIES

KEC has a Cultural Club for conducting various cultural activities to provide platform for the students to showcase their talents. A well-equipped band room comprising of musical instruments is available. The club conducts Cultural activities during various college level programs such as Open House Exhibition, Founders Day, Annual Day, Radio Mirchi, Talent Show, etc. Programmes like Sketch, Inter-collegiate Cultural Event and Enthusia, Intra-collegiate Cultural Event, are also exclusively conducted for students.

YOGA AND MEDITATION CENTRE

The institution has 2 Yoga and Meditation Centers, exclusively designed for yoga and meditation with audio and video facilities, for improving physical and mental health of students, faculty and staff. Yoga and Meditation Centre organizes the meditation classes every day. Apart from the regular classes, the institution organizes SKY Yoga Foundation Course for all the first year students, faculty and staff.

File Description	Document
Upload any additional information	[View Document](#)
Geotagged pictures	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. *(Data for the latest completed academic year)*

Response: 100

4.1.3.1 **Number of classrooms and seminar halls with ICT facilities**

Response: 227

File Description	Document
Institutional data in prescribed format	[View Document](#)

4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

Response: 26.66

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
676.09	1027.87	888.29	430.31	375.99

File Description	Document
Upload Details of Expenditure , excluding salary during the last five years	[View Document](#)
Upload audited utilization statements	[View Document](#)
Upload any additional information	[View Document](#)

4.2 Library as a Learning Resource

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

Response:

Integrated Library Management System (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) with more features. The database has been developed in Oracle 11g.

List of Modules available in the ILMS are:

1. NIRMALB: Bibliographic Control System
2. NIRMALC: Circulation Control System
3. NIRMALU: NIRMALS General utilities
4. OPACPLUS: Online Public Access Catalogue (OPAC)
5. GEMS: Gate Entry Monitoring System
6. WEBPAC: On Dual Platform (Windows/Linux)

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.

OPAC

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)

Downloads

All the e-journals and e-books purchased in the library can be accessed through Intranet.

Digital Library

Digital Library has materials around 7620 of all disciplines including sources like GRE, GMAT, TOEFL, ISI codes etc in the digital format. In addition, 535 Audio and Video Cassettes are available in the department Libraries. It provides a number of Online Electronic Database like IEEE, ACM, ASME and ASCE online CD-ROM databases. ProQuest science online journals are also available in CD-ROMs.

File Description	Document
Upload any additional information	[View Document](#)
Paste Link for additional information	[View Document](#)

4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Institutional data in prescribed format	[View Document](#)
Details of subscriptions like e-journals, e-books , e-ShodhSindhu, Shodhganga Membership etc	[View Document](#)

4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 45.21

4.2.3.1 **Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
53.27	48.68	44.26	39.96	39.87

File Description	Document
Details of annual expenditure for purchase of and subscription to journals/e-journals during the last five years	[View Document](#)
Audited statements of accounts	[View Document](#)
Any additional information	[View Document](#)

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

Response: 3.51

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

Response: 300

File Description	Document
Details of library usage by teachers and students	[View Document](#)

4.3 IT Infrastructure

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

Response:

Computer System Facilities

There are totally 2603 desktop systems available and maintained with almost zero downtime in the campus with constant up-gradation. In the year 2017, 385 Intel core i3 desktop systems were purchased at a cost of Rs.1,09,03,200/-, 165 Intel core i5 desktop systems were purchased at a cost of Rs.58,41,000/- and 3 Intel core i5 laptops were purchased at a cost of Rs.1,91,880/-. In the year 2018, 131 Intel Core i3 desktop systems were purchased at a cost of Rs.39,35,700/- and 4 Intel core i5 laptops were purchased at a cost of Rs.1,64,000/-. In the year of 2019, 12 Intel core i3, i5 & i7 computer systems and laptops were purchased at a cost of Rs.4,14,250/-. In the year of 2020, 5 Intel core i5 & i7 computer systems and laptops were purchased at a cost of Rs.3,71,150/-. Every year lower end configurations and obsolete systems are periodically replaced.

Internet, Networking and Surveillance Facilities

An uncompressed bandwidth of Leased Line Internet Connection is upgraded from 320 Mbps (2017) to 512 Mbps Bandwidth (2020) at an investment of Rs.1,64,02,000/- for the span of 5 years. These are connected through 1 Gbps LAN OFC connections with TCP/IP backbone. Networking distribution switches were upgraded at a cost of Rs. 29, 33,260/- in 2017, Rs. 4,18,684/- in 2018, Rs. 4, 11,789/- in 2019, and Rs. 6,96,068/- in 2020. To increase surveillance area of the campus additionally 294 cameras with NVR were installed at a cost of Rs.14,84,508/-. From 2016 onwards SYMANTEC end point security was renewed at a cost of Rs.2,04,173/-.

Server Facilities

To cater the needs of IT facilities of academic community of the institute, a DELL Power edge R740 GPU server with higher processing speed and ubiquitous capacity was established in the year 2019 at a cost of Rs.13,23,000/-. In addition, 3 numbers of DELL Power edge R740 as a campus server and COE server with unified storage was established in the year 2021 at a cost of Rs.34,54,500/-.

Wi-Fi Facilities

Wi-Fi access points are available in all parts of the campus including hostels, enabling the students to access the learning materials and the Internet uninterruptedly. During the last five years 153 Wi-Fi access points are upgraded from 802.11apg standard to 802.11ac standard and 87 newly installed in various academic blocks at a total cost of Rs.69,82,741/-.

Software Up-gradation

Firewall license was renewed at a cost of Rs.22,02,000/- during the last 5 years. College has Microsoft campus agreement which is renewed every year at a cost of Rs.4,00,000/- to enable the students to work and develop projects using Microsoft related tools and technologies. Department specific software were purchased and renewed at a cost of Rs. 1,79,94,879/-.

IT Infrastructure Maintenance

Annual Maintenance Contract (AMC) is entrusted with external agencies for UPS and the contracts are

renewed annually at a cost of Rs.19,42,365/- during the last 5 years.

File Description	Document
Upload any additional information	[View Document]
Paste link for additional information	[View Document]

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 4:1

File Description	Document
Upload any additional information	[View Document]

4.3.3 Bandwidth of internet connection in the Institution.

Response: ?50 MBPS

File Description	Document
Upload any additional information	[View Document]
Details of available bandwidth of internet connection in the Institution	[View Document]

4.3.4 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

Response: A. All of the above

File Description	Document
Upload Additional information	[View Document]
Institutional data in prescribed format	[View Document]

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic

support facilities excluding salary component during the last five years

Response: 56.4

4.4.1.1 **Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
1788.06	1704.26	1467.16	1065.16	1158.74

File Description	Document
Upload any additional information	[View Document](#)
Details about assigned budget and expenditure on physical facilities and academic facilities	[View Document](#)
Audited statements of accounts	[View Document](#)

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

Response:

Kongu Engineering College has the maintenance committee which is headed by the Registrar. The Registrar monitors the Supervisors who organize the workforce, maintain duty files like the individual floor-wise responsibilities, timings, leave etc. These details are periodically checked by the maintenance officer to ensure the efficiency / working condition of the infrastructure.

- 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 (http://kms.kongu.edu/maintenance/login.php). Tracking mechanism is available to view the job status.
- The civil and electrical maintenance work is adequately monitored and maintained by the Estate office.
- Lab assistants under the supervision of the System administrator maintain the college computers

and accessories. Similarly all equipments and PA systems available in the department are serviced based on need through HoD with the approval of Principal.

- The non-teaching staff is also trained to maintain the science and computer equipment.
- The Estate office workers look after the maintenance of rest rooms, approach roads and neatness of the entire premises. Housekeeping services are regularly executed and monitored and is headed by the team comprises of supervisor and officer.
- Parking facilities inside the campus is neatly organized.
- Every department maintains a stock register for the available equipment.
- Proper inspection and verification of stock are done in the end of every year.
- Pest control of library books and records is done every year by the maintenance Department.
- The campus maintenance is monitored through surveillance Cameras.
- All properties/equipments work in the optimum condition in the campus and it is also ensured through annual maintenance contracts (AMC). The AMC purview includes maintenance of CCTV cameras, Intercom and equipments in the respective departments. Apart from contract workers, the college has also trained in-house electricians and plumbers.

File Description	Document
Paste link for additional information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 67.87

5.1.1.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2019-20	2018-19	2017-18	2016-17	2015-16
4970	5501	5789	5948	5750

File Description	Document
upload self attested letter with the list of students sanctioned scholarships	[View Document]
Institutional data in prescribed format	[View Document]
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document]

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

Response: 7

5.1.2.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2019-20	2018-19	2017-18	2016-17	2015-16
537	572	604	595	575

File Description	Document
Upload any additional information	<u>View Document</u>
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	<u>View Document</u>
Institutional data in prescribed format	<u>View Document</u>

5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology

Response: C. 2 of the above

File Description	Document
Details of capability enhancement and development schemes	<u>View Document</u>
Any additional information	<u>View Document</u>

5.1.4 Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.

Response: 15.94

5.1.4.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
186	1727	640	2326	1706

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<u>View Document</u>
Any additional information	<u>View Document</u>

**5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances**

4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 46.43

5.2.1.1 **Number of outgoing students placed year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
1061	1060	994	1049	1032

File Description	Document
Upload any additional information	
Self attested list of students placed	
Details of student placement during the last five years	

5.2.2 Percentage of student progression to higher education (previous graduating batch).

Response: 2.56

5.2.2.1 **Number of outgoing student progressing to higher education.**

Response: 58

File Description	Document
Upload supporting data for student/alumni	
Details of student progression to higher education	

5.2.3 Average percentage of students qualifying in state/national/ international level examinations

during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 22.78

5.2.3.1 **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations*, etc.)*) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
103	60	55	54	75

5.2.3.2 **Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
349	345	347	287	232

File Description	Document
Upload supporting data for student/alumni	[View Document](#)
Number of students qualifying in state/ national/ international level examinations during the last five years	[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 101

5.3.1.1 **Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
28	22	21	11	19

File Description	Document
Number of awards/medals for outstanding performance in sports/ cultural activities at inter-university / state / national / international level during the last five years	View Document
e-copies of award letters and certificates	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

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 BE / B.Tech Programmes. The council meets once in a semester. The minutes are recorded and actions are taken on the points discussed.

The college also has a separate committee for the hostel students with student members from both boys' and girls' hostels to take care of the general activities of the inmates, monitor the mess proceedings and maintain the basic amenities in the hostels.

Representation of students on Academic & Administrative bodies / committees of the institution.

Various Students' Forums / Clubs / Cells listed below function in the College through which the students enthusiastically take part in different activities:

- Student Counseling Cell
- NSS and NCC
- Yoga and meditation Club
- Photography Club
- Cultural Club
- Rotaract Club
- Ravi Varma Creative Club
- Android Application Development Club
- Citizen Consumer / Legal Literacy Club
- Aero Modeling Club
- Energy & Environment Conservation Club
- English Proficiency and Readers Club
- Radio Control Club
- Srinivasa Ramanujam Mathematics Club
- Youth Red Cross

- Tamil Mandram
- Higher Education / Competitive Examination Cell
- Entrepreneurship and Management Development Cell
- Women Development Cell
- Self Development Cell
- Pasumai Vanam
- Robotics Club

Department Associations, Academic and Extra Curricular Committees:

- Department Association Committee
- Course Monitoring Committee
- Sports Committee
- Cultural Committee
- Hostel Committee

The students conduct seminars, career guidance and quality improvement programs throughout the year by inviting resource experts from industries and other institutions. Industrial visits to various industries are also arranged by the students as a part of their curricular activities.

Various student chapters of professional bodies listed below also function in the College:

- IEEE (USA) Student branch
- IETE Students' Forum (ISF)
- ISTE Chapter
- Computer Society of India (CSI)
- Institution of Engineers (IEI)
- ICT Academy of Tamil Nadu
- Indian Institute of Chemical Engineers
- Society of Automotive Engineers
- Instrument Society of India (ISoI)
- The Institution of Engineering and Technology (IET)
- Information Systems Audit and Central Association (ISACA)
- CII – Yi Yuva Kongu Engineering College Chapter
- Indian Chapter of American Concrete Institute
- Indian Geo Technical Society

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	Document
Upload any additional information	[View Document]()

5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

Response: 28.8

5.3.3.1 **Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
32	29	27	30	26

File Description	Document
Report of the event	[View Document](#)
Number of sports and cultural events / competitions organised per year	[View Document](#)

5.4 Alumni Engagement

5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

Response:

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.

The Alumni Association envisages to act as a bridge between the students, management, faculty and alumni of Kongu Engineering College for mutual benefit, to build a better interaction among the alumni, students and faculty and to improve the quality of service offered to students that in turn will contribute to the benefits of the society.

The Alumni Association also acts as a forum for exchange of information among its members, with objective of providing student guidance for higher studies and career development, with support from alumni. It also purposes to maintain a compendium of all alumni in order to establish, promote and support the local chapters of the association in different parts of the world.

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. The chapter is actively engaged in creating a congenial rapport with the alumni committee office bearers consisting of President, Vice President, Secretary and Joint Secretary and the members. In addition to the activities in the college campus, in a view to build the alumni network, alumni chapters function locally as well as globally. 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 ever year.

File Description	Document
Any additional information	View Document

5.4.2 Alumni financial contribution during the last five years (in INR).

Response: E. <2 Lakhs

Criterion 6 - 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

Response:

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

Quality Policy:

- Provide value-based quality education for developing the students as a competent and responsible citizen
- Contribute to the nation and beyond through the state-of-the art Technology
- Continuously improve our services

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.
- Well-structured systems, procedures and policies have been developed, approved by the Management and documented. (https://kongu.ac.in/iqac.php#)
- 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)
- Office automation has been introduced to make the system faster and user friendly
- Financial freedom is extended to the Principal and each Head of the departments to approve at a time a sum of Rs. 20,000/- and Rs. 5,000/- respectively to utilize it for college and department activities
- Instituting awards for Research, Best faculty in departments, Best students in departments, Best project work, Awards to the students excelling in the Academic, Co-curricular and Extra Curricular activities etc.
- The manpower, infrastructure and financial requirements are identified at department level based

on which college level requirements on these aspects are finalized.

- Whenever there is an additional intake or a new program, faculty strength and infrastructure requirements are identified and necessary action is taken to ensure the adequacy
- In all the activities connected with development, implementation and continuous improvement, the top Management extends total support and reviews the proceedings when required

Perspective/Strategic Plan

- Implementation of National Education Policy (NEP) and National Innovation and startup Policy (NISP) within the institute (https://kongu.ac.in/ief/docs/kisp2020.pdf)
- Involving more numbers of faculty and students in consultancy and problem solving for industries through the Industry Institute Partnership Cell (IIPC)
- Establishing Research Centers / Centers of Excellence and promoting the culture of research among the faculty and students
- Motivating the students and faculty to do applied research in Technology Business Incubator (TBI) in the campus leading to the development of innovative and commercially viable products useful for the industry and society
- Operating Student Chapters of Professional Bodies and promoting industry linkage
- Conducting more numbers of International and National Level Technical Conferences, Symposium, workshops and FDPs

Refer additional information for more details

File Description	Document
Any additional information	[View Document](#)
Link for additional information	[View Document](#)

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

Response:

Decentralization:

- Effective decentralization of responsibilities is enforced within the campus. All the activities within the campus are categorized into 11 main heads namely Academic, Planning, Affiliation & Ranking, Industry relations, R&D, Student Affairs, Accreditation & Higher Education, Placement Training, Science & Humanities, Public Relations and Alumni
- Each responsibility is headed by a Chief Coordinator, assisted by coordinators and a convener. Each coordinator is responsible for the activities carried out under each head.
- 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)
- Faculty members are given responsibilities for organizing various events, coordinating various club activities and faculty advisors for each class

- On the other hand, students are also encouraged to plan and execute number of technical and non-technical events through various students' associations, cells and clubs. Students are also allowed to put-up stalls and run as a business entity during important functions which gives them a real-life experience of running a business. These types of programmes enhance the leadership and entrepreneurial skills of the students
- Likewise, under alumni association, 7 chapters are functioning internationally (https://alumni.kongu.edu/)

Participative Management:

- The college promotes a culture of participative management. Students and faculty members are involved at various levels in decision making and implementation of strategies
- 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.
- In infrastructure development and purchase decisions the views of the faculty members are given due consideration. All academic activities are planned by the faculty members at department level in line with college goals
- 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
- Students' council is another important committee where student representatives from all departments take part. For each semester a meeting is convened by the Principal to discuss the general issues of the students relating to academics, placement, co-curricular activities, infrastructure facilities, etc. Decisions are taken and implemented
- Students play a major role in hostel mess committee by deciding the food menu for the inmates and providing suggestions for overall improvement of the services of the hostel.
- Students have department level Student Associations in which a number of co-curricular activities are planned and executed. These activities are guided by association faculty in-charges of respective departments
- A number of Clubs with Student centric activities function in the college and Students are actively involved along with the Faculty in Charge of the respective Clubs in planning and conduct of various programs of the clubs
- Participation of alumni in Board of Studies and involving them in curriculum development also promotes participative management

File Description	Document
Link for strategic plan and deployment documents on the website	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The institutions are to be competitive to the changing global scenario and tune themselves to meet the expectations of the stakeholders. A series of brainstorming sessions with the stakeholders were conducted to chalk out a strategic plan for 2015-2020 for the institute. 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 developed with respect to the following 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 strategic planning document developed served as a monitoring tool for self appraisal at various levels and also be a guiding document from Management to Staff level. These plans are deployed through a systematic means by empowering the concerned stakeholders and providing them the necessary resources to make the plans to happen. Periodical reviews to assess the achievement level vis-à-vis the plan and taking necessary corrective action were called for. With sustained efforts, involvement, monitoring and support, the goals set in the document were achieved.

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:

The number of Ph.Ds awarded from KEC research centre is increased from 95 to 211. At present 253 faculty members are Ph.D holders. The number of publications in scopus, SCI, SCIE and ICI indexed journals are increased to 2683. On an average 200 papers were published per year before the implementation of strategic plan and now it is increased to 536 per year. Number of sponsored R&D projects are increased from 61 to 91. A sum of Rs. 488.79 Lakh was received as grant from various funding agencies during the strategic plan implementation period. Seed money proposals are sanctioned worth Rs.107,90,000/- for deserving research projects and full time scholars are provided stipend from the Institution.

The above achievements are made possible through the implementation of following strategies:

- Incentive schemes for paper publications in quality journals.
- Special incentive pay for deserving Ph.D holders
- Seed money for R&D projects

Strategic plan for 2020-2025 academic years is drafted and available in the Institute website.

File Description	Document
Link for Strategic Plan and deployment documents on the website	View Document
Link for additional information	View Document

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

Response:

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. Also, he is responsible for framing policies and action plans for achieving the expected outcomes. 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. They take decisions related to all academic matter and delegate the works to faculty in a decentralized manner. They are involved in various activities including teaching, student development, faculty development activities and staff development activities.

Non Academic departments like Civil maintenance, Electrical maintenance and housekeeping are effectively functioning under the respective heads through an exclusive local ERP portal for sorting out maintenance issues.

Different committees, cells and professional societies are actively functioning in the Institution with the participation of faculty members.

List of Committees:

- Governing Council
- Academic Council
- Library Committee
- Research Committee
- Grievance Redressal Committee
- Grievance Redressal and Empowerment Committee for SC/ST students
- Disciplinary Committee

- Deaddiction Committee
- Anti Ragging Committee
- Anti Sexual Harassment Cell
- Human Resource Development Cell

Student Centric Activities: Cells/Councils

- National Service Scheme
- National Cadet Corps
- College Students Council
- Higher Education / Competitive Examination Cell
- Entrepreneurship Management Development Cell
- Self Development Cell
- Student Counselling Cell
- Women Development Cell
- Publication Cell

Student Centric Activities: Professional Bodies

- IEEE Students Branch
- IEEE Student Forum
- IEEE Chapter
- ISTE Chapter
- Computer Society of India
- Institution of Engineers (India)
- ICT Academy of Tamilnadu
- Indian Institute of Chemical Engineers
- Society of Automotive Engineers
- Instrument Society of India
- The Institution of Engineering and Technology(IET) on Campus
- Indian Geo Technical Society
- Indian Chapter of American Concrete Institute

Clubs:

- Placement and Training Cell
- Alumni Association
- Youth Red Cross
- Rotaract Club
- IGNOU
- English Proficiency and Readers' Club
- CII-YI Yuva Kongu Engineering College Chaupal
- Tamil Mandram
- Yoga & Meditation Club
- Citizen Consumer / Legal Literacy Club
- Energy & Environment Conservation Club
- Srinivasa Ramanujan Mathematics Club
- Robotics Club

  - Aero Modelling Club
  - Radio Control Club
  - Pasumai Vanam
  - Photography Club
  - Cultural Club
  - Ravi Varma Creative Club
  - Android Application Development Club

Service Rules:

Service rules are available in Staff Handbook – https://kongu.ac.in/docs/staff_handbook.pdf

File Description	Document
Any additional information	[View Document]
Link for additional information	[View Document]
Link to Organogram of the Institution webpage	[View Document]

6.2.3 Implementation of e-governance in areas of operation

  1. **Administration**
  2. **Finance and Accounts**
  3. **Student Admission and Support**
  4. **Examination**

Response: B. 3 of the above

File Description	Document
Screen shots of user interfaces	[View Document]
Institutional data in prescribed format	[View Document]
ERP (Enterprise Resource Planning) Document	[View Document]
Link for additional information	[View Document]

6.3 Faculty Empowerment Strategies

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

Response:

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

Welfare measures for teaching and non- teaching members are not only for the development of Faculty and Staff but also for the organizational development. Kongu Engineering College offers various schemes such as Leave on Duty, Maternity Leave, Gratuity, and Support to staff for higher education/research and for attending workshops/conferences, Incentive Policy for Research & Publications, Revenue sharing in consultancy. The welfare measures are offered by the institute to all the employees with the motive to promote the efficacy.

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 Seminar / Paper Presentation / Conference – in India & Abroad
7. Sponsorship to attend Quality Improvement and Faculty Development Programme
8. Revenue sharing with faculty in Consultancy / Testing
9. Cash incentive for Paper Publications, R&D work
10. Free Lodging facility to Faculty members who are staying in hostels
11. Residential Quarters facility for Faculty
12. Gold coin for Best Faculty award
13. Cash prize for Best Researcher award
14. Cash prize for Best Placement Co-ordinators
15. Cash prize for Best IIPC Co-ordinators
16. Cash prize for Best performing Researcher (R&D Projects)

* Leave details

Leave	Teaching
Casual Leave (CL)	12 Days
Special Casual Leave (SCL)	7 Days / Semester
Medical Leave (ML)	15 Days / year for hospitalization (Above 3 years' service)
Maternity Leave (MAL)	3 Months with half pay (3 to 5 Years' service)
	3 Months with Full pay (Above 5 Years' service)
Vacation (V)	Winter - 2 Weeks Summer – 3 Weeks
On Duty (OD)	No Limit / Applicable

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)

** Leave details:

Leave	Non-Teaching
Casual Leave (CL)	12 Days
Special Casual Leave (SCL)	N/A
Medical Leave (ML)	15 Days / year for hospitalization (Above 3 years' service)
Maternity Leave (MAL)	3 Months with half pay (3 to 5 Years' service)
	3 Months with Full pay (Above 5 Years' service)
Vacation (V)	Winter - 1 Week Summer – 1 Week
On Duty (OD)	No Limit / Applicable

File Description	Document
Link for additional information	[View Document](#)

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.

Response: 34.55

6.3.2.1 **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
126	210	186	249	144

File Description	Document
Institutional data in prescribed format	[View Document](#)
Link for additional information	[View Document](#)

6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.

Response: 29.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
39	27	27	29	24

File Description	Document
Institutional data in prescribed format	[View Document](#)
Link for additional information	[View Document](#)

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 62.97

6.3.4.1 **Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
402	404	277	326	248

File Description	Document
IQAC report summary	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Link for additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Institution conducts internal and external financial audits regularly

The college has the mechanism for both internal and external financial audits. Meetings will be conducted regularly for settling various accounts of the institution.

External Audit

- Management-appointed External Auditor audits the annual accounts regularly
- Annual Audit by the external auditor T.V.Venkataramanan & Co has completed the audit up to the financial year 2019-20.

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
- Funds received from various agencies are properly accounted, vouched and verified in the college office and finally checked by the Registrar and the Principal.
- 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. All the CCOs, HODs and other faculty in charges are given power to utilize the funds as per the guidelines with the approval of the Principal. The college is maintaining the internal finance approval system for all expenses is in place. All the vouchers and bills are audited once in a month by an Internal Auditor. The audit objections and report of the internal auditors is discussed in the management committee meeting conducted every month.

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 from the various grants received from Central, State governments and other funding agencies under various schemes including R&D projects and Funding Sponsored Programme are audited by the Chartered Accountant appointed by the college and relevant Utilization certificate duly signed by the Principal and the Chartered Accountant are sent to the authority concerned.

File Description	Document
Link for additional information	View Document

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

Response: 13.11

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

2019-20	2018-19	2017-18	2016-17	2015-16
4.90	3.62	2.30	1.02	1.27

File Description	Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

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

Response:

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, there are other sources of fund mobilization ;

1. Sponsored Research Project obtained by the faculty members from different funding agencies, Government and Non-government organizations.
2. Industry Training and Consultancy activities offered/Provided by the faculty members to organizations and other institutions.

3. Sponsorship FDPs/Conferences/ Seminars etc in the form of Registration Fee.
4. Registration fee from the Industrial/Institutional Sponsorships for FDPs, Conferences, Seminars, etc.
5. Self supported Conferences, Seminars, Workshops, FDPs and Training Programme organized by the departments.
6. Establishment of Industry Sponsored Laboratories and Centre of Excellence
7. Management contribution towards Donations/Endowments
8. Funds received from KVIT Trust
9. The College is also receiving scholarships from the State and Central Govt to distribute to the needy.

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	Document
Link for additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)

Response:

Internal Quality Assurance System

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

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. In this OBE implementation, major deficiencies in the traditional educational system have been eliminated. 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
- Avoided the gap between formal education and career training
- Measure of learner's actual performance
- 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 like

- communication skills
- interpersonal skills
- analytical skills
- working attitude

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	Document
Any additional information	[View Document](#)
Link for additional information	[View Document](#)

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives   )

Response:

Internal Quality Assurance System

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

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.

IQAC is responsible for

- Developing quality benchmark parameters for various academic and administrative activities of the institution.
- Disseminating the importance of various quality parameters in higher education
- Act as nodal agency of the Institution for coordinating quality related activities, like
    - Adoption and dissemination of best practices
    - Development of quality culture in the institution

- Conducting audits on academic, administrative and research activities periodically.
    - Organization of workshops, seminars on quality related themes and promotion of quality circles

- Preparing the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC

The college implements IQAC initiatives and corrective measures towards enhancing quality procedures.

File Description	Document
Link for additional information	[View Document](#)

6.5.3 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality initiatives with other institution(s)**
3. **Participation in NIRF**
4. **Any other quality audit recognized by state, national or international agencies (ISO Certification)**

Response: All of the above

File Description	Document
Upload e-copies of the accreditations and certifications	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)
Paste web link of Annual reports of Institution	[View Document](#)
Link for additional information	[View Document](#)

Criterion 7 - 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 last five years.

Response:

- An Annual Gender Sensitization plan is published in the college website (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)".
- Table 7.1 lists the measures initiated for the promotion of gender equity.

Table 7.1 Measures initiated for the promotion of gender equity

Parameters/Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Women Faculty i/c of Cells & Clubs	17	12	13	15	29
Women Faculty Award	10	22	24	20	22
Best Student (Female)	11	22	19	25	36
Guest Lecture for Gender Equality	5	5	7	7	4
Girls' Participation in NSS	124	103	92	107	90
Girl Cadets in NCC	11	14	22	15	19

Activity report link: http://naac.kongu.edu/cr_7/cr_7_1_1/cr7.1.1_ActivityReports.pdf

Specific facilities are provided for women in terms of:

Safety and security:

- Hostel and college premises have 24 x 7 security support with CC TV monitoring.51 security guards along with a security officer and 276 Cameras installed at various locations cater to safety and security inside the campus.

- Round-the-clock ambulance service and a dispensary are available in the campus.
- Biometric attendance system is followed for monitoring the hostel female students and staff members. If absenteeism is noticed, it will be intimated to the parents after due verification.
- For fitness of girls, a separate gym and sports facility with high-quality equipment are available in hostels in addition to regular facility.
- Self-defense skills like Karate and Silambam are taught to the interested students.
- Anti-ragging Committee, Grievance Redressal Committee, Sexual Harassment Committee and Disciplinary committee ensure safety and security in the campus forstudents and faculty.
- All the buildings have stability certificate and fire extinguishers to ensure safety. MBA block has fire sensors also.

Counselling:

A students' counselling cell functions along with two counsellors (one female & one male) from each department for helping students at times of their grievance, apart from the class advisors and year coordinators.

Common Rooms:

- 5 common rooms are available for the needy girl students. Additionally, the dispensary has 3 rooms with cot facility, one consulting room and one waiting room for students to take rest on being unwell.

Meditation and yoga halls are provided for the students and faculty to enhance their mental well-being.

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b.Counselling c.Common Rooms d. Day care center for young children e. Any other relevant information	[View Document](#)
Annual gender sensitization action plan	[View Document](#)

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**
4. **Sensor-based energy conservation**
5. **Use of LED bulbs/ power efficient equipment**

Response: B. 3 of the above

File Description	Document
Geotagged Photographs	[View Document](#)
Any other relevant information	[View Document](#)

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

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. There are dustbins placed at specific points to prevent littering in the campus. The college is striving to be a plastic free zone and in the process of establishing of vertical garden with the available waste pet bottles and making the campus eco-friendly and greenery to reduce global warming. On campus use of plastic is discouraged. Plastic cups, metal tins and paper cups are banned in the campus. The hot beverages are served in steel mugs/glass. Awareness posters and pamphlets are displayed in prime locations of the campus. Dry leaves are allowed to decompose systematically over a period to be used as manure for the gardens in the institute. 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. Incinerator machine has been installed to dispose sanitary napkins and Separate bins are provided in Ladies Hostel to separate the napkins from other waste. Sanitary napkin incinerator with wet scrubber (for pollution control) is installed for disposing the napkins. Wet scrubber is attached at the outlet of burner fumes where the fumes get scrubbed in water and get filtered to remove the harmful emissions. Totally,5 Incinerator machines are installed in hostels.

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.

E-WASTE MANAGEMENT

The E-waste management has been given due focus and all Electronic goods are put to optimum use, the

minor repairs are done to set right the equipment by the staff and the Laboratory assistants and the major repairs, by the professional technicians, and are reused. Electronic waste items are taken care by the Institute. Obsolete electronic items such as monitors, computers, batteries etc. are segregated and sold as scrap every academic year.

WASTE RECYCLING SYSTEM

The wastewater originating from the bathrooms and toilets are collected by two-pipe system, where one pipe carries wastewater due to bathing, washing of clothes and cleaning and the other one carries human faeces and night soil. This system of collection facilitates proper and effective treatment and disposal of sewage. The recycled water is utilized for plantation and garden area. An average of 5000 cum/year is used for irrigating plants in the campus.

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	[View Document](#)
Geotagged photographs of the facilities	[View Document](#)
Any other relevant information	[View Document](#)

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	[View Document](#)
Link for any additional information	[View Document](#)

7.1.5 Green campus initiatives include:

1. **Restricted entry of automobiles**
2. **Use of Bicycles/ Battery powered vehicles**
3. **Pedestrian Friendly pathways**
4. **Ban on use of Plastic**
5. **landscaping with trees and plants**

Response: Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	[View Document](#)
Geotagged photos / videos of the facilities	[View Document](#)
Any other relevant documents	[View Document](#)

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

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

Response: C. 2 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	[View Document](#)
Certification by the auditing agency	[View Document](#)
Certificates of the awards received	[View Document](#)
Any other relevant information	[View Document](#)

7.1.7 The Institution has disabled-friendly, barrier free environment

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Divyangjan friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Details of the Software procured for providing the assistance	View Document
Any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

KEC 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.

Efforts to handle Cultural diversity

KEC accommodates the culturally diversified students by encouraging the exchange of cross-cultural ideas and celebration of the festivals of different culture. The students from the other states are motivated to participate in the cultural festivals of Tamil Nadu also. The institute is much famously known for discipline and cultured behaviour of the faculty and students as stated by a student from Bihar.

"Kongu Engineering College made me more responsible. I am being more disciplined and mannered. Moreover, this college made me treat all equally and show love on everyone."

Efforts to handle Regional diversity

Apart from various districts of Tamil Nadu, the institute has got 104 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 the co-curricular activities including clubs/cells and extra-curricular activities like sports, cultural events and yoga. During such participation, the students from different parts of Tamil Nadu and the country share their region-specific attributes by mingling with the others.

Efforts to handle Linguistic diversity

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 faculty of the other states. To enable the students to work across the world, the other foreign languages like German and Japanese have been taught in the campus for the 381 interested students and Hindi also has been taught for 139 students. Two clubs, namely Tamil Mandram and English Proficiency & Readers Club conduct various programs: 348 students have attended "Yaazh" program to improve their Tamil language skills and 6,658 students have attended

programs to improve their English language skills.

Efforts to handle Communal diversity

The students and the faculty of all the communities and religions (FC -3.4%, BC-69%, BCM-2%, MBC-16.5% & SC/ST-7.7%) are a part of this temple of learning which shows that the institute strives to provide conducive environment for all. Moreover, so far there have been no riots in the history of the institute related to any issue. To exhibit religious amity, 1,838 faculty and students of different religions have celebrated "Samathuva Pongal" at the campus.

Efforts to handle Socioeconomic diversity

The students from the rural areas and from the poor family to rich study in the institute. To overcome the socioeconomic barriers, the institute has facilitated the students to receive the following scholarships and awards from state and central governments: 11,282 BC/MBC scholarships, 4 BC/MBC awards, 4,893 SC/ST/SCC scholarships, 71 SC/ST/SCC awards, 9,356 first generation scholarships in addition to 15 scholarships under Prime Minister's Special Scholarship Scheme (PMSSS) for Jammu & Kashmir students. 25,606 students have got benefitted from these scholarship schemes.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

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. In addition, Yoga and meditation club conducts regular programs to make our students to understand the value of being humane. Through NSS, NCC, Rotaract club, Self-Development Cell (SDC), Youth Red Cross, Energy-Environment club and Consumer Citizen club, various programs are organized to make the students realize their rights, duties and responsibilities. The various programs organized are:

- Environmental awareness programs - guest lectures, rally, competition, planting trees, campus cleaning, plastic usage awareness programs
- Pasumaivanam – planted trees and created awareness about global warming
- Blood donation camps by NSS and other clubs along with the hospitals and Erode chapter- IMA
- Anemia awareness camps - For girl students and female faculty, as Women are prone to anemia. Blood samples are taken and the anemic students and faculty are given advice by doctors on individual basis.
- Health awareness programs to general public - Marathons of 3 and 5 km named as "Healthy Run"
- 'Thoorigai' is organized to bring out the talents of the disabled students. This creates an awareness

among the students about the difficulty faced by the differently-abled children.

- Camps for enrolment of voter ID for the students who turned 18, correction of voter ID and training to studentsto enroll for voter ID through online so that they can help others are organized to make the students to be aware of their rights and duties.
- Village adoption programs under NSS have provided platform to understand the live hood of village and made our students to understand their responsibilities.
- Citizen / Legal Literacy club has organized various programs related to consumer rights.
- During natural disasters, students are permitted to collect funds/ materials and distribute them to the affected people (Rain affected areas in Cuddalore, Chennai / Corona period)
- To inculcate the social responsibility among the students, in the MBA curriculum, social projects are added as a course and as a part of it, the students visit government schools to create awareness on hygiene, career advancement and higher studies, yoga, planting trees etc.
- A few department students have visited orphanage and old age homes and provided the fund which they collect from faculty, staff and students.
- 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.
- Through SDC, the achievers in various fields are invited to provide a motivational talk and they have shared their experience. These series of lectures have made students to positive and to have a responsibility to revert back to the society at their later stages of life.

Activities that make the students Responsible citizens:

Year	2015-16	2016-17	2017-18	2018-19	2019-20	
Number of activities	29	21	33	20	30	

File Description	Document
• Details of activities that inculcate values; necessary to render students in to responsible citizens	[View Document](#)

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

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

Response: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	[View Document](#)
Code of ethics policy document	[View Document](#)

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

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, Swami Vivekananda Jayanti, National Voters Day, Constitution Day, Engineers Day, Marathi Bhasha Diwas, Ambedkar Birthday, National Unity Day, Armed Forces Flag Day, Parakram Diwas, Swachhata Pakhwada, Dengue Awareness Day, NSS Day, NCC Day, Surgical Strike Day, Kargil Vijay Diwas Day, Eye Donation Week and so onlike 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. KEC contributes huge resources in terms of manpower, money, facilities and material for celebrating above kinds of events.

National events such as Republic day and Independence Day aid to increase the unity among the students, promote the feelings of pride of our own country, which helps to raise the patriotic spirit among young minds. National and international leaders/scientists' commemorative days are celebrated to acknowledge their contribution towards the nation/society and to make students be aware of their services. Manyprograms are organized and celebrated to create the awareness to students on environment, physical and mental health, gender equality, national services, to know, protect and practice their citizenship rights, to give them knowledge about do's and don'ts. Region-specific events are conducted to promote and protect the cultural values among the students. State-specific events are conducted, which promotes state cultural unity between various state students. During the celebration of national and international events, various knowledge sharing, talent showcasing events, and games are organized by the students for the students, due to which student community can learn management and communication skills. This paves a pathway for the students to improve their co-curricular and extra-curricular knowledge and gain maximum exposure to international/national scenario.

File Description	Document
Geotagged photographs of some of the events	[View Document](#)
Annual report of the celebrations and commemorative events for the last five years	[View Document](#)

7.2 Best Practices

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

Response:

BEST PRACTICES - I

TITLE OF THE PRACTICE:

Industry oriented Curriculum Design and Teaching – Learning Process.

OBJECTIVES OF THE PRACTICE:

- To design Industry oriented curriculum to meet out the requirements and incorporate the recent technologies in the syllabus
- To promote direct industry linkages with the departments and enhance In-plant training, Industry visits, field/site visits, Industry projects and Internship opportunities to the students and also to train the faculty in the recent advancements
- To involve students and faculty in testing and consultancy activities for governmental and non-governmental organizations and provide solutions for industrial /societal problems
- To collaborate with industries for R&D activities and establish industry sponsored laboratories / Centre of Excellences (CoEs)

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
- Scheduling more visits to industries for providing exposure to industrial practices in the academic calendar
- Establishing relationship with reputed industries require prolonged and consistent efforts and involvement of faculty
- Bringing experts from industry to teach a part of the syllabus
- Increasing the allowances / pay offered to the students during trainings/ internships
- Making travel arrangements to remote sites / far off places for industrial visits where industries / huge infrastructure projects are under progress
- Ensuring safety at workplaces during student's visit / training

THE PRACTICE:

- **98** MoUs are signed with reputed industries and Government organizations to enhance technical expertise of faculty and students.
- **55** Industry experts are nominated for Board of Studies and a majority of the courses are introduced

based on the industrial requirements and expectations. **47.79%** of syllabus content has been revised during the last 5 years.

○ **47** value added courses are offered with the help of industrial experts on advanced topics / skill enhancement techniques.

○ R2018 and R2020 curriculum include industrial training (2 credits) and internships (12 credits) as mandatory courses. Since 2015-2016, **607** industry student projects are carried out, **984** Internship projects are carried out and **4764** students have undergone training in **1233** Industries.

○ The number of Faculty and non-teaching staff trained since 2015-16 academic year is **161** in **85** industries. In addition, **7** training programs are offered to industrial experts through KEC faculty members and **105** trainees have got benefitted.

○ Industry attachment programmes (1 day theoretical inputs by industry experts and 1 day visit to industry) are introduced in Mechanical and Mechatronics departments and **1129 students** have got benefitted out of **16 programmes** organized along with by Roots Industries Ltd, Coimbatore.

○ **125** field visits / site visits have been arranged in a few programmes as a part of curriculum. **7161** students have got benefitted.

○ Adjunct faculty scheme has been adopted to teach a full / part of a course by industrial experts. Guest lectures, seminars, workshops and technical Symposiums are conducted with the help of **292** industry experts.

○ **12** Industry sponsored labs and industry supported labs are established. For **7** early stage entrepreneurship, KEC is acting as a knowledge partner under Innovation Voucher Programs (IVP). 3 Centres of Excellence (CoEs) are established for Mechatronics, Electrical & Electronics Engineering and Mechanical Engineering departments in collaboration with industries.

○ Joint research activities with industries are facilitated and **5** patents are granted and **86** ideas have been published in patent journal. KEC has collaborated with **16** industries for joint R&D proposals.

○ **700** Testing and consultancy activities are carried out by the faculty to outside agencies with majority of student participation.

○ **44** Alumni (who are entrepreneurs / occupying a responsible position at industries) are called for interaction to enrich student's knowledge on field practices.

○ Weightage is given for industry linked activities in performance appraisal of faculty and departments

EVIDENCE OF SUCCESS:

○ In AICTE-CII survey for identifying the 'Best Industry linked Technical departments and Institute", KEC has been ranked under Platinum award Category every year.

○ NIRF India Ranking 2020 has ranked KEC 135th position in Engineering Category and ATAL Ranking of Institutions on Innovation Achievements (ARIIA) 2020- Categorized KEC as band A institution (rank between (6-25) in the category of Private or Self-financed College/Institute

○ The Institute has also won "Outstanding Institute-Industry Partnership Award" – Sustainable Institute Industry Partnership (SIIP) from SEED, Chennai during 2015 and 2016.

○ Various Magazines have ranked KEC in top positions: India Today (2020) - 77th Position, The Week (2020) - 56th Position, The Competition Success Review Survey (CSR) - 9th Position in Placements, USP, Social responsibility, Networking & Industry Interface Category in Top 25 Engineering College.

○ Renowned industries have collaborated with KEC for the establishment of Centre of Excellence: 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 India, Coimbatore.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

Problems encountered:

- Establishing relationship and entering into MoU with reputed industries takes at least a year. Follow-up activities to retain the partnership becomes a challenging one.
- Finding slots with industries for student /faculty training during summer and winter vacations and for field visits is becoming difficult.
- All industries are not ready to pay stipend during internship period for students
- Establishment of industry sponsored research laboratory is a constraint for a rural based institution.

Resources required:

- A full-fledged team to take care of industrial relations is required in each department in addition to central Industry Institute Partnership Cell (IIPC) team.
- A yearly budget to visit the industries and to train the faculty in industries during vacations has to be provided
- To perform consultancy activities, required equipment have to be procured.

ADDITIONAL INFORMATION THAT MAY BE RELEVANT FOR ADOPTING/ IMPLEMENTING THE BEST PRACTICE IN OTHER INSTITUTIONS

In order to implement and improve the practice, the following measures may be adopted:

- "Best department in implementation of MoUs and industry linked activities" and "Best performing faculty in IIPC activities" awards are constituted, which acts as a driving force for enhancing the industry linked activities
- Field visits for each course or combining few courses help in learning new technologies and identifying the problems of local industries
- Adjunct faculty scheme and floating industry-oriented Value-added courses to students enhance their learning process
- Establishing good network with renowned industries will yield industry sponsored labs or CoE

BEST PRACTICES - II

TITLE OF THE PRACTICE:

Clean and Green Practices for Sustainable Environment

OBJECTIVES OF THE PRACTICE:

Clean and Green Practices aim at achieving eco-friendly and sustainable environment within the College campus. The main objectives are listed below:

- Implementation of cleanliness agenda among stakeholders

- Initiating activities to protect the environment and to reduce carbon emission by using alternative energy resources
- Minimization of waste generation and safe disposal of the wastes
- Conserving water and recycling it
- Expanding the Greenery within the campus to ensure pollution-free air
- Re-modeling the campus into a smart campus

THE CONTEXT:

Environmental protection / Go Green / Swatch Bharat Mission are the concepts evolved after realizing the harmfulness of pollution which affects not only human health but also the ecological balance. Optimum use of natural resources and keeping our environment clean and green are necessary for healthy living and sustainable future. Converting the institute into clean and Smart Campus by engaging the stakeholders will facilitate dialogue and sharing of ideas amongst students, faculty and administrators towards Sustainable Development Goals. In this context, KEC has initiated various activities and awareness programmes to promote the mission of green campus

THE PRACTICE:

- Policies related to green initiatives and waste management are established and implemented.
- Measurement and reduction of carbon footprints by regulating the vehicle movement within the campus.
- Plantations in large numbers within the campus and their efficient maintenance through a separate team with a horticulturist to keep the campus green. 2,958 trees are made in the campus. The total green area inside the campus is about 82 acres with a Green area per capita of 39.09 sq. meters.
- Recycling of waste water and using it for gardening helps to reduce consumption of water. Water conservation facilities are deployed across the campus to harvest rain water, monitor water levels in tanks and recycle the waste water. A 10-lakh capacity Sewage Treatment Plant along with efficient water distribution system is functioning.
- Solar power plants with 680kWp capacity at a cost of Rs.3.55 crores have been installed in the campus during the last five years. Solar street lights and solar water heaters installed in hostels and staff quarters account to the usage of solar energy.
- Energy efficient equipment like LED bulbs, BLDC fans and Gresol pumps are in application to reduce the consumption of electric power. Sensor based energy conserving methods like water-level monitoring systems are installed to reduce the wastage of water and electric power.
- Hygiene in hostel and canteen kitchens is ensured through clean and sterilized utensils, mechanization of food preparation and frequent cleaning of dining tables and floors through dedicated team. 1,148 modern toilets are available inside campus, which are all cleaned twice a day by dedicated staff.
- Food wastes are crushed and sent to biomass gasifier plants for the production of biogas that is to be used as an alternate source for LPG.
- Safe disposal of all types of wastes from the campus is carried out though proper segregation technique.
- Through 17 clubs and cells, plantations and awareness programmes are being conducted every year to promote the importance of Go Green concept. Beyond campus activities are also undertaken by students and faculty regularly to promote the green practices in nearby communities also.
- Air quality is measured daily and recorded to identify the emission of harmful gases.
- Energy and environmental audits are conducted and possible issues are identified and rectified for

establishing sustainable environment.

EVIDENCE OF SUCCESS:

○ Green practice at KEC has been recognized at national level and the college has received several awards:

1. AICTE Swachh Campus Ranking 2019 award for Cleanest Higher Educational Institutions in the Country
2. AICTE National Level "Clean & Smart Campus Awards – 2019"
3. AICTE certificate of appreciation for contribution to "Jal Shakti Abhiyan – 2019"
4. AICTE certificate of appreciation for contribution to "One Tree One Student" initiative - 2019
5. AICTE Clean Campus Award 2017

○ Energy saving achieved in terms of percentage of contribution is shown below:Year

Year	Total Consumed Electricity (units)	Electricity consumed from the solar energy (units)	% of contribution
2015-16	4309511	194164	4.5
2016-17	4494826	524307	11.7
2017-18	4406441	565136	12.8
2018-19	4623108	714171	15.4
2019-20	4100285	571398	13.9
Average			11.7

○ The reports of Green, Energy and Environmental audits portray the success of the green practices followed in the campus.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

○ A huge investment is required to build up an alternate energy source.
○ Continuous efforts are required to create awareness and to sustain the GO GREEN policy. Organizing programmes related to this theme of practice amidst heavy academic schedule is necessary.
○ More number of labours / workers are required for the establishment and maintenance and retaining labours / workers of this category is challenging.

ADDITIONAL INFORMATION THAT MAY BE RELEVANT FOR ADOPTING/ IMPLEMENTING THE BEST PRACTICE IN OTHER INSTITUTIONS

○ To keep our environment pollution-free and to make it a place for healthy living of all species is necessary and it is the responsibility of all concerned. Educational Institutions are responsible to

develop this kind of culture among all their stakeholders.

- Celebrating all major days related to Environment – Environmental day, water day and so on create awareness among the young minds about the need for sustainable environment.

File Description	Document
Best practices in the Institutional web site	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

 "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.

Admission

Every year, more than 2,000 students from different areas, backgrounds, knowledge levels and states of India like Telangana, Andhra Pradesh, Jammu and Kashmir, Haryana, New Delhi, Bihar, Chhattisgarh, Jharkhand, Kerala, Pondicherry, Rajasthan, Punjab and Karnataka in addition to Tamil Nadu get admitted into the institute.

Grooming of students

After admission, the students are given a platform to develop themselves in terms of knowledge, skills, behaviour and attitude.

a) Knowledge enhancement

The institute facilitates knowledge enhancement through various teaching-learning methods and through making students to participate in various activities. All the students are given equal opportunities to develop their knowledge through their participation in various association activities like symposiums, guest lectures and workshops conducted by all the departments every year. Trainings and coaching classes for Graduate Aptitude Test in Engineering (GATE), Common Admission Test (CAT), Civil Services Examination and so on have been conducted to prepare the students for higher studies and 347 students have cleared different competitive examinations. 984 students have taken up internship in various

companies and 4,764 students have undergone in-plant training for a week or more in various industries. Open House Exhibition (OHE) and Talent show are unique platforms for the students to showcase their technical talents. Using the knowledge gained, the students are able to define a problem, conduct investigations and develop solutions.

b) Skill upgradation

To enhance skills in modern tool usage, 5,751 students have taken up non-formal course, 6,248 students have done one credit course and 1,544 students have taken up value added course. 583 software and core trainings have been organized for 7,760 students to prepare them for campus placements. 215 trainings have been offered to 9,736 students to improve their soft skills and personality development. 144 trainings are organized to improve the communication skills of 8,760 students. Students have also taken part in the activities of 24 cells and clubs in addition to 17 professional societies. Furthermore, to develop their skills, foreign languages like Japanese and German and the national language Hindi have been offered for 381 interested students and additional events for improving skills in English are conducted for 6,658 students. A two day cultural event "ENTHUSIA" has been organized every year and 2,669 students have showcased their talents in cultural activities. 1,502 students are given chances to delegate power as a part of managerial activity and leadership skill by their participation in association activities at various designations and 184 students have been in various positions in Self Development Cell (SDC) which transforms them into holistic persons emotionally.

c) Behavior and Attitude

The word 'Kongu' in Kongu Engineering College stands for the organized sect of people belonging to south India, who are known exclusively for their discipline and humaneness. In this way, the institute is known worldwide for its disciplined students. It facilitates and nurtures the self-responsibility, self-discipline and self-growth of students by involving in various activities apart from studies. 882 students have participated in yoga and meditation, 1,444 students have taken part in Energy and Environment Conservation Club and 253 students have involved in Pasumai Vanam club.

Students are also given a vast opportunity for community engagement. They have offered 795 programmes to the community through Kongu Community Radio Service (CRS). On behalf of the National Service Scheme (NSS), 1,707 students have served the society, 2,133 cadets have served on behalf of National Cadet Corps (NCC) and 169 volunteers have served through Youth Red Cross.

Outcomes achieved by students

a) National level Recognitions

On behalf of NCC, 21 students have made achievements at the state and national levels. For example, hailing from South India, the following three students have participated in the All India Republic Day Camp and exhibited their talents during the Republic Day Celebrations held at Red Fort, New Delhi, North India, on behalf of the NCC wing of the institute during 2017-2018, 2018-2019 and 2019-2020 respectively.

1. 14MER016 K. Arvinth

2. 16ITR077 M. Pranesh

3. 17EEL139 N. Yogaprasanth

b) Research Papers and awards or prizes

643 papers have been presented by students in premier institutions like IITs and NITs and 27 students have presented papers in universities or institutes abroad and 2,761 students have won awards or prizes in academic and 133 students have won in sports. Furthermore, 812 UG or PG projects are converted into research papers.

c) Real time project development

4,910 projects have been done as final year project, 1,988 as mini project, 652 as additional projects on the own interest of students, 2,644 projects are exhibited by students inside the institute and 415 projects are exhibited outside the institute and 135 students have done projects for industries through Memorandum of Understandings (MoUs). 19 students have developed 4 products through the Technology Business Incubator (TBI) wing of the institute. 521 students have exhibited projects in National level competitions like Smart India Hackathon, National innovation contest, AICTE Vishwa karma awards, SAE Baja & Supra, ACE competitions, Coding hackathons and so on.

d) Patents

2 patents have been obtained by students, 3 patents of students are under consideration and 12 patents have been published.

e) Jobs/entrepreneurships/higher studies

Out of the total 11,201 final year students, 7,490 are placement willing students, 5,196 students have been placed in core and software companies and 299 have turned entrepreneurs. Further, 571 students have gone for higher studies in India and 89 students have gone to universities abroad.

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

File Description	Document
Any other relevant information	[View Document](#)
Appropriate web in the Institutional website	[View Document](#)

5. CONCLUSION

Additional Information :

- KVIT Trust has contributed Rs. 25 lakh towards Chief Minister's Public Relief Fund to fight against Covid'19
- Institutional Scholarship for top performing 5% students every year
- Incentives for Research Outcomes by Faculty and Students
- Respective Committees are formed for redressal mechanism
- 2nd position among best Self-Engineering Colleges in Tamil Nadu (Week Report, 2020)
- 14th position among best private engineering colleges in South Zone (Week Report, 2020)
- 27rd position among best private engineering colleges in India (Week Report, 2020)
- 56th position among best engineering colleges in India (Week Report, 2020)
- 2nd position among top engineering colleges of super excellence (Competition Success Review, 2020)
- 2nd position among Self Financing Engineering Colleges in Tamil Nadu (Competition Success Review, 2020)
- 9th position in Placement, USP, Social responsibility, Networking and Industry Interface category among top 25 Engineering Colleges (Competition Success Review, 2020)
- 9th position in Faculty, Research, Consultancy, EDP and other Programmes category among top 25 Engineering Colleges (Competition Success Review, 2020)
- Ranked 135th in Engineering Category (NIRF, 2020)
- 4th position among Self-financing colleges in Tamil Nadu (Outlook report, September 2020)
- 38th position at All India Level (Outlook report, September 2020)
- 9th position among Self Financing Engineering Colleges in Tamil Nadu (India Today, 2020)
- 16th position among top Engineering colleges in Tamil Nadu (Education World, 2020)
- Water level monitor is installed in each hostel to check its water consumption.
- The waste water generated from the college hostels and buildings are collected at a sewage treatment plant which has the capacity to recycle 10 lakh litres and the water which is treated and recycled is used for horticulture and gardening purposes.
- Open House Exhibition is conducted every year to celebrate the innovation, creativity, and cross pollination of ideas of the students. This 3-day open-to-all event gives a glimpse of student projects to the public.
- The college conducts a state level sports tournament, Kongu Trophy every year to encourage students in sports.
- The college conducts state level, zonal level Inter-Collegiate sports events at its ground.
- Transport facility is provided through 83 buses, 2 ambulances for emergency service

Concluding Remarks :

Kongu Engineering College with its 36 years of commitment for the noble cause of higher education has made an indelible impression as a pioneering institution of higher learning and research with Corporate Social Responsibilities. From a very humble beginning in 1984, the college has now evolved and emerged as a NAAC Accredited "A" Grade Autonomous Institution with a remarkable potential for further growth in all spheres.

The college has created a right environment for further growth, with an impressive array of infrastructural facilities created over the years. The green and serene premises, multi-talented young students and highly

qualified, experienced, skilled and motivated members of staff have geared up for any kind of academic challenge. Likewise, the dedicated, enlightened and progressive management has determined to showcase the institution as one of the best engineering institutions in the country.

The proof of excellence is the continuous placement record, many sponsored research projects, accreditation with high grade, top media rankings and high reputation among academic community. The Management has a long-term vision and plans to achieve all-round development and growth. The College plans to build upon its strengths. The suggestions/ recommendations of the peer team which visited the college in 2012 have been meticulously carried out.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.3.4	**Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)** 1.3.4.1. **Number of students undertaking field projects / internships / student projects** Answer before DVV Verification : 2917 Answer after DVV Verification: 2737 Remark : multiple activities by one student be counted as one
2.1.1	**Average Enrolment percentage (Average of last five years)** 2.1.1.1. **Number of students admitted year-wise during last five years** Answer before DVV Verification: {{TABLE1}} Answer After DVV Verification : {{TABLE2}} 2.1.1.2. **Number of sanctioned seats year wise during last five years** Answer before DVV Verification: {{TABLE3}} Answer After DVV Verification : {{TABLE4}} Remark : Data as per proof of sanctioned post by sanctioning authority provided
2.1.2	**Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)** 2.1.2.1. **Number of actual students admitted from the reserved categories year wise during last five years** Answer before DVV Verification: {{TABLE5}}

Table 1 (2.1.1.1 before):

2019-20	2018-19	2017-18	2016-17	2015-16
2156	2334	2383	2469	2545

Table 2 (2.1.1.1 after):

2019-20	2018-19	2017-18	2016-17	2015-16
2156	2334	2383	2469	2545

Table 3 (2.1.1.2 before):

2019-20	2018-19	2017-18	2016-17	2015-16
2661	2829	2829	2829	2817

Table 4 (2.1.1.2 after):

2019-20	2018-19	2017-18	2016-17	2015-16
2469	2469	2469	2469	2493

Table 5 (2.1.2.1 before):

2019-20	2018-19	2017-18	2016-17	2015-16

591	658	654	699	698

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
591	659	654	699	698

Remark : AS per documents submitted

3.1.2	**The institution provides seed money to its teachers for research (average per year, INR in Lakhs)**
	3.1.2.1. **The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
20.55647	55.64033	0	0	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	55.64033	0	0	0

Remark : HEI has not provided Audited Income-Expenditure statement for 2019-20, highlighting the relevant expenditure counter signed by the Principal indicating seed money provided and utilized.

3.1.3	**Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years**
	3.1.3.1. **The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
03	04	01	06	03

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
03	04	01	05	02

Remark : Fellowship without any financial support not be considered

3.2.1	**Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

3.2.1.1. **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
215.43	84.26	126.20	27.46	35.44

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
189.00	80.7	125.44	26.76	34.44

Remark : Grant received only for research purpose to be considered

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3.2.2

Percentage of teachers having research projects during the last five years

3.2.2.1. **Number of teachers having research projects during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
49	21	21	15	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
35	13	14	15	5

Remark : As per data provided by HEI

3.3.2

Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development during the last five years.

3.3.2.1. **Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development year-wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
139	44	26	35	32

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
95	27	17	18	24

Remark : Strict to metrics points

3.4.1	**The Institution ensures implementation of its stated Code of Ethics for research through the following:**
	1. Inclusion of research ethics in the research methodology course work
	2. Presence of Ethics committee
	3. Plagiarism check through software
	4. Research Advisory Committee
	Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above Remark : Bill of URKUND Anti Plagiairism License is not proper
3.4.2	**Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/ supervisors provided at 3.2.3 metric) during the last five years**
	3.4.2.1. How many Ph.Ds are registered within last 5 years Answer before DVV Verification : 285 Answer after DVV Verification: 286 3.4.2.2. Number of teachers recognized as guides during the last five years Answer before DVV Verification : 146 Answer after DVV Verification: 146
	Remark : HEI has provided list along with letters for new registrations
4.1.4	**Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)**
	4.1.4.1. Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)
	Answer before DVV Verification:
	<table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>676.09</td><td>1027.87</td><td>1241.16</td><td>406.12</td><td>379.12</td></tr></table>
	Answer After DVV Verification :
	<table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>676.09</td><td>1027.87</td><td>888.29</td><td>430.31</td><td>375.99</td></tr></table>
	Remark : As per audited expenditure statements provided by HEI
4.2.4	**Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year**

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

Answer before DVV Verification : 1287

Answer after DVV Verification: 300

Remark : As per data provided by register entry is makes approximately 25-30. but as per list it may be around 300

4.4.1	**Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years** **4.4.1.1. Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)** Answer before DVV Verification: 	2019-20	2018-19	2017-18	2016-17	2015-16
1942.89	1863.03	1625.97	1223.91	1305.94 | Answer After DVV Verification : | 2019-20	2018-19	2017-18	2016-17	2015-16
1788.06	1704.26	1467.16	1065.16	1158.74 | Remark : Expenditure on telephone, postal,water, garden, etc not to be considered
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5.1.3	**Following Capacity development and skills enhancement activities are organised for improving students capability** **1. Soft skills** **2. Language and communication skills** **3. Life skills (Yoga, physical fitness, health and hygiene)** **4. Awareness of trends in technology** Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above Remark : Data verify only two of above

5.1.4	**Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.** **5.1.4.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years** Answer before DVV Verification: | 2019-20	2018-19	2017-18	2016-17	2015-16
---	---

8660	6355	5281	6519	4647

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
186	1727	640	2326	1706

Remark : Programme like quant. aptitude, verbal ability, Company specific training pragramme, Guest lecture, Industry expectation re-programme, How to manage ourselves in workplace etc. not to be included

5.3.3	**Average number of sports and cultural events / competitions organised by the institution per year**

    5.3.3.1. **Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
36	32	32	34	29

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
32	29	27	30	26

Remark : SCIENSEA, Auto expo project exhibition, Renaissance NAEVUS not to be included

6.2.3	**Implementation of e-governance in areas of operation**

    1. **Administration**
    2. **Finance and Accounts**
    3. **Student Admission and Support**
    4. **Examination**

    Answer before DVV Verification : A. All of the above
    Answer After DVV Verification: B. 3 of the above
Remark : data varified only 3 of above

7.1.2	**The Institution has facilities for alternate sources of energy and energy conservation measures**

    1. **Solar energy**
    2. **Biogas plant**
    3. **Wheeling to the Grid**
    4. **Sensor-based energy conservation**
    5. **Use of LED bulbs/ power efficient equipment**

	Answer before DVV Verification : A. 4 or All of the above
	Answer After DVV Verification: B. 3 of the above
	Remark : Data verified only 3 of above
7.1.6	**Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:**
	1. **Green audit**
	2. **Energy audit**
	3. **Environment audit**
	4. **Clean and green campus recognitions / awards**
	5. **Beyond the campus environmental promotion activities**
	Answer before DVV Verification : A. Any 4 or all of the above
	Answer After DVV Verification: C. 2 of the above
	Remark : HEI failed to provide Green audit report of all the years from recognised external bodies.

2.Extended Profile Deviations

ID	Extended Questions
1.2	**Number of full time teachers year-wise during the last five years**
	Answer before DVV Verification:
	<table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>508</td><td>536</td><td>548</td><td>539</td><td>520</td></tr></table>
	Answer After DVV Verification:
	<table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>506</td><td>533</td><td>545</td><td>536</td><td>517</td></tr></table>
1.3	**Number of sanctioned posts year-wise during last five years**
	Answer before DVV Verification:
	<table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>508</td><td>536</td><td>548</td><td>539</td><td>520</td></tr></table>
	Answer After DVV Verification:
	<table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>506</td><td>533</td><td>545</td><td>536</td><td>517</td></tr></table>
2.5	**Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**
	Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
2618.98	2890.90	2867.13	1630.03	1684.93

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
2516.09	2380.22	2859.39	2349.10	2715.81