



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

KRISHNASAMY COLLEGE OF ENGINEERING AND TECHNOLOGY

NELLIKUPPAM MAIN ROAD, S. KUMARAPURAM,
607109
www.kcet.in

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Krishnasamy College of Engineering and Technology is one of the pioneering Engineering Colleges in the Cuddalore district of Tamil Nadu. It was established by Sri Krishnasamy Reddiar Educational Trust, Cuddalore in the year 2001 with the approval of All India Council of Technical Education, New Delhi and affiliated to Anna University, Chennai. Right from its very inception, the institution believed in integrating ethics and values as the undercurrent of every course taught. Combined with academic excellence, the institution provides a holistic framework of interpersonal development for its students. Also, it trains the mind, body and spirit of the students in the most modern context.

In this manner, the institution strives at every level to blend both the academic pillar of learning and character building. The trust is marching towards its vision under the dynamic management of **Dr. K. Rajendran**, a renowned surgeon who hails from Cuddalore along with the other members of the trust who are having high profile with rich and varied experience.

The institution has emerged consistently to determine the educational parameters in the field of Engineering and Technology. The College with state-of-the-art laboratories, workshops, hostels, central library and auditorium is located in S. Kumarapuram, Cuddalore and is well connected by roadways and railways.

We have an utmost intention to get recognition from UGC. Eventually, it has resulted in submitting the self-study report for the prestigious accreditation by NAAC.

Vision

- To gain international recognition as a world class Technical Institution through discipline and devotion in performing our duties.

Mission

- To provide high quality technical education meeting international benchmarks.
- To impart practical skills along with sound theoretical knowledge with the participation of industry.
- To work for the development of society in general and the rural masses in particular in collaboration with other institutions and agencies.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Infrastructure with state-of-the-art facilities including laboratories and library.
- Well experienced and dedicated faculty.

- Team work culture and a strong academic system.
- Commitment of students, staff and management towards quality, dedication, positive morale and work ethic.
- Active modern teaching and alternate learning facilitation.
- Campus wide intra and inter-network with 100 Mbps Optical Fibre Cable connectivity.
- Student mentoring and feedback system.
- A separate Training and Placement Cell to groom the students by addressing industrial expectations through training on soft skills, special technical trainings, and industrial training.
- Encouragement to the faculty members for pursuing research.
- Centre for Innovation and Entrepreneurship to promote the spirit of Entrepreneurship.
- Ability to analyze and continuously improve quality.

Institutional Weakness

- Attitude of students from rural areas towards higher education.
- Inability to bring quick changes in the curriculum on technological advancements in line with the expectations of industries being an affiliated institution.
- Lack of strong rapport with funding agencies and consultancies for research activities.
- Limited industry - institute interaction.
- Lack of confidence and communication skills of first graduate students from rural background.

Institutional Opportunity

- Scope for strengthening the industry - institute interaction by associating with Micro, Small and Medium Enterprises.
- Enter into collaborative projects with industries and other institutions for better exposure to students.
- Preparing and motivating students towards higher education and competitive examinations as career options besides placements.
- Introducing training programmes for students to match the industrial expectations.

Institutional Challenge

- Training the rural-based students from Tamil medium with English language as a medium of instruction.
- Achieving 100% admission and placement.
- Lack of students' retention inside the campus after regular working hours.
- Maintaining a balance between administrative, academic and research work in the competitive environment.
- Rapid changes in technology.
- Creating a stress free learning environment.
- Attitude reengineering of millennium generation students.
- Lack of interest of students towards engineering domain in the recent past.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institution adheres to the syllabus designed by Anna University and encourages the faculty to keep updating through refresher courses, Faculty Development Programmes and workshops. The institution facilitates Value Added Courses for the students based on the feedback from the stakeholders to stay competitive in the job market. Institution is sensitive to gender, environment issues, human values and professional ethics and conducts different programmes besides offering courses under Anna University curriculum such as Professional Ethics and Human Values, Principles of Management, Total Quality Management and Environmental Science.

Academic calendar is prepared incorporating both institutional and departmental activities including assessment schedule, Guest Lectures, Symposium, Seminars, Conference, Placement and Training activities. The students are encouraged to take up projects in thrust areas. Also, the students are sent to industries for in plant training and internships in order to map their theoretical knowledge into practical implementation.

Allotment of courses is exercised by the HOD based on the faculty expertise. A course file containing detailed lesson plan is prepared by the faculty members upon allocation. Question and Answer Banks are prepared for all courses and are circulated among students upon scrutiny by the department. The HOD along with academic coordinator ensures continuous monitoring of effective curriculum delivery. Our institution is keen on helping the students take up certificate courses to complement their knowledge and skills related to their field of study.

Besides the above, our institution collects a structured feedback from the stakeholders for taking corrective action upon analysis.

Teaching-learning and Evaluation

The institution is most preferred among the engineering aspirants with a pretty decent student enrolment due to its reputation.

The main objective of the institution is to impart quality education to the students. The Outcome Based Education (OBE) is implemented and practiced by the institution. Advanced learners are provided with opportunities to choose for self-learning courses, summer internships, and academic projects while special attention is given to slow learners through remedial classes and tutorial sessions.

A student-centric learning ambience is consistently paved and maintained. Renowned resource persons are invited from both academia and industry to deliver guest lectures in various fields to supplement the curriculum. The College has an effective mentoring system in place for counselling the students. The college ascertains implementation of technology enhanced teaching and learning experience, besides content delivery through ICT enabled classrooms. Induction of teachers with Ph.D. / NET qualification have been increased besides career advancement of existing faculty and currently 19 faculty members are qualified with Ph.D. while a few more are pursuing. The teaching learning process is monitored by the Principal, the Vice-Principal, IQAC coordinator, Head of the Department, Academic coordinator, Class Incharge and Class Committee on a routine basis.

Transparency is maintained in the assessment and evaluation process. Various proforma are being used as check points to ascertain quality of operations at various levels. Besides analyzing the results for necessary corrective actions on a routine basis the students are given a feedback on their performance from time to time.

Research, Innovations and Extension

The Institution fosters the minds of the faculty members and students towards research and development by adopting various strategies. The faculty members are encouraged to pursue research in their respective field of interest. Project proposals are submitted by the students to Tamil Nadu State Council for Science and Technology every year upon scrutiny. Interdepartmental paper presentation event is being conducted every year to encourage and motivate the knowledge transfer among the students. The institution takes effort in inculcating entrepreneurial spirit and awareness among the student community. The institution also provides guidance to the budding entrepreneurs through the Centre for Innovation and Entrepreneurship. The institution also has an Incubator which takes support from ATAL Incubation Centre of Puducherry Technological University in promoting stratepreneurs. The institute encourages and ensures participation of students in numerous extension activities.

- The faculty members who do not possess Ph.D. degree are suggested to register for research work.
- At present, the institution has 19 Ph.D. holders, while 9 pursuing Ph.D. and remaining faculty members are working collaboratively.
- Nine faculty members have completed their research work and awarded with Ph.D. in the last five years.
- A few research grants have been received under student project support scheme in the last five years.
- A few laboratories have been earmarked for promoting research.
- Seminars and workshops are organized in topics related to article writing and IPR.
- Several Research papers have been published in the UGC recognized journals / presented in national / international conferences.
- NSS, YRC wings of the institution are constantly engaging students in activities of social relevance.

Infrastructure and Learning Resources

Krishnasamy College of Engineering and Technology has a vision to provide quality education and strong academic development to create capable and confident individual.

KCET ensures an excellent learning ambience with spacious and ventilated classrooms ICT enabled seminar halls, common faculty rooms for each department spread across different blocks.

A spacious air conditioned indoor auditorium that can accommodate up to 1000 people is available with a collapsible sound proof wall in between for conducting events simultaneously.

The library contains a well organized circulation section, reference section, information desk, and a digital library. It is enriched with books on Engineering, Science and Technology, Computer Applications, Arts, resources for competitive examinations etc.

Institution updates its IT facilities and has 472 computers connected in LAN across different blocks and also provides internet connection with 100 Mbps bandwidth.

The College offers excellent sports facilities and professional instruction for student's participation in sports. A sports village was dedicated exclusively with all basic amenities for sports activities, both indoor and outdoor.

The College provides separate hostels for boys and girls where Hygiene and cleanliness are emphasized. The institution has canteen facility for the refreshment needs.

The College has exclusive dispensary managed by a paramedical staff to provide first aid and Doctor's visit is arranged if necessary. For emergency medical requirements, an ambulance is made available across 24 x7.

The institution has various other facilities, like gymnasium, security, purified drinking water, waiting halls, rest rooms, etc. Fire extinguishers are placed on all floors as a fire safety measure.

Student Support and Progression

Economically weaker section students are supported by both management scholarships and through various government schemes like post metric SC/ST, BC/MBC scholarships. We facilitate opportunities for our students to improve their soft skills, communication skills, ICT skills and their life skills. Anti-ragging cell, Women Empowerment Cell, and Student grievance redressal cell provide various welfare measures to support the students with a structured, organized guidance and counselling system.

Our Training and Placement Cell is working towards to equip our students with employability skills and to get succeed in placement drives. Sustainable good practices and effective support, improves confidence level of our students to attend various on-campus and off-campus drives and to get placed in reputed companies. Also, we motivate and guide the interested students to pursue higher studies.

Our Alumni association has been registered as a Society under Tamil Nadu Government Society Registration Act with the registration Number: SRG/Cuddalore/93/2022. Alumni engagement in various activities that includes mentoring, counselling and guidance besides sharing of knowledge is consistently being practiced. Alumni Members are invited for various knowledge transformation programmes to enrich the students' knowledge. Alumni meet is being conducted every year to felicitate and to put forth their valuable suggestions.

Besides academic activities, students are motivated to take part in extra-curricular activities like sports and cultural events being organized with the ample infrastructure available in the institution both inter institutional, intra institutional and zonal level. Our students received awards and medals in sports and cultural events during the last five years.

Governance, Leadership and Management

Our management gives more importance with keen focus through vision and mission of the Institution. The institution has an effective and transparent governing system in tune with the vision and mission. The Organogram of the institution clearly defines the decentralization of the campus. The Governing Council meets periodically to monitor progress and suggest strategies. Coordination of academic and administrative planning, and implementation have been established through affiliated university and AICTE guidelines.

The Principal, the Vice-Principal and the HoDs periodically meet to take decisions on academic matters. The HoD decides on the activities of the department and delegates responsibilities to the faculty. Transparency is maintained in the academic and administrative practices. The Governing body addresses the issues related to the overall development of the institution.

The institution has implemented e-governance in the areas of administration, finance, accounts and academics. Self-appraisal for faculty and students' feedback are received. Empowering faculty members through faculty development programmes and participation in various activities of the institution are encouraged. Regular internal and external audits for income and expenditure are monitored. Community services by NSS are done through blood donation camps, medical checkups etc.

Effectiveness of various committees in the implementation is witnessed. Welfare measures for teaching and non-teaching staff like cash awards, incentives and maternity leave for women are granted to motivate the faculty. The IQAC is responsible for the effective implementation of the quality processes for academic and administrative activities.

Institutional Values and Best Practices

KCET maintains balanced gender equity not only in terms of number of job opportunities given to women but also their representation in the institution. The institution has substantial number of girl students and women employees. Various strategic steps are taken from time to time to bring sensitivity on the gender related issues and provide an equal opportunity. Women Empowerment Cell was established to maintain safety and security of the women faculty and girl students. This cell addresses women protection, inequalities and any issues faced by women and girl students on the campus. The institution has implemented various green practices and promoted and improved eco-friendly environment on the campus.

The institution has implemented a robust continuous assessment framework aimed at enhancing learning outcomes and achieving a pass percentage of 60%+. Through structured planning, rigorous evaluation, and timely feedback, significant improvements in academic performance have been observed. Trends in end semester examination performance driven through internal assessment over the last few years, show sustained improvement in academic outcomes. Specifically, an overall increase of about 25% in academic performances before and after the Covid'19 pandemic has been realised.

The institution has imparted life skills to students almost throughout the duration of the study for shaping and preparing the students to pursue better career during and after their studies. In addition, the institution has been consistently placing students from a rural background. In spite of the recession, our students were better employable as over 70% of eligible students secured placements in reputed multinational companies, with a 50% increase in average salary in the last five years.

KCET has shown lies in its holistic approach to Institutional Social Responsibility (ISR), integrating educational excellence with community engagement, ethical behaviour, and environmental sustainability. By preparing students to become socially conscious leaders and promoting meaningful societal contributions, our institution not only enhances student employability but also makes a significant impact on the community and environment. Through these efforts, KCET continues to uphold our commitment to excellence, integrity, and societal well-being.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	KRISHNASAMY COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	NELLIKUPPAM MAIN ROAD, S. KUMARAPURAM,
City	CUDDALORE
State	Tamil Nadu
Pin	607109
Website	www.kcet.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	ELANGO G	04142-285607	9942115224	-	principalofficekcet@gmail.com
Professor	RAGHU K	04142-285608	9597880095	-	ragukpatham@gmail.com

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 minority institution	Yes Minority status.pdf
If Yes, Specify minority status	
Religious	
Linguistic	Telugu
Any Other	

Establishment Details				
State	University name	Document		
Tamil Nadu	Anna University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC	22-06-2016	View Document		
12B of UGC				
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	02-06-2023	12	Extension of Approval is sought every year

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?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	NELLIKUPPAM MAIN ROAD, S. KUMARAPURAM,	Rural	25.06	34259.13

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,CIVIL ENGINEERING	48	Intermediate	English	30	18
UG	BE,Computer Science And Engineering,COMPUTER SCIENCE AND ENGINEERING	48	Intermediate	English	60	59
UG	BE,Electrical And Electronics Engineering,ELECTRICAL AND ELECTRONICS ENGINEERING	48	Intermediate	English	60	51
UG	BTech,Information Technology,INFORMATION TECHNOLOGY	48	Intermediate	English	60	60

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UG	BE,Mechanical Engineering,MECHANICAL ENGINEERING	48	Intermediate	English	60	43
UG	BE,Electronics And Communication Engineering,ELECTRONICS AND COMMUNICATION ENGINEERING	48	Intermediate	English	60	60
PG	ME,Computer Science And Engineering,COMPUTER SCIENCE AND ENGINEERING	24	B.E. Or B.Tech	English	18	1
PG	ME,Electrical And Electronics Engineering,EMBEDDED SYSTEMS TECHNOLOGIES	24	B.E. Or B.Tech.	English	18	0
PG	MCA,Master's In Computer Applications,MASTERS IN COMPUTER APPLICATIONS	24	Three year UG degree	English	60	60

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	6				10				60			
Recruited	6	0	0	6	6	4	0	10	30	30	0	60
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				60
Recruited	36	24	0	60
Yet to Recruit				0

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				20
Recruited	16	4	0	20
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	0	0	2	1	0	7	3	0	19
M.Phil.	0	0	0	3	1	0	6	4	0	14
PG	0	0	0	1	2	0	17	23	0	43
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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
UG	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		Total
	0	0	0	0	0

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	623	0	0	0	623
	Female	341	0	0	0	341
	Others	0	0	0	0	0
PG	Male	29	0	0	0	29
	Female	94	0	0	0	94
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	41	31	19	16
	Female	26	19	8	14
	Others	0	0	0	0
ST	Male	0	1	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	133	120	93	118
	Female	102	111	77	63
	Others	0	0	0	0
General	Male	1	1	2	2
	Female	3	3	5	1
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		306	286	204	214

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Krishnasamy College of Engineering and Technology has been originated as a nerve centre of quality education for the rural youth. The faculty members sow the seeds of confidence to make the students flourish globally and the top-notch guidance in learning innovative ideas stepping the students to reach the highest place. The sole objective of the institution is to create centre of excellence for providing knowledge and the institute strengthens the knowledge of the students by offering a variety of value-added courses and multi-disciplinary flexible curriculum.
2. Academic bank of credits (ABC):	The only motto of the institute is to focus on teaching-learning practices to bring innovations in the field of education also the college introduces various schemes from time to time for quality assurance. Continuing the chain of building transformative educational setup and as part of our commitment to NEP 2020, we encourage our students to be a part of “Academic Bank of Credits” (ABC) as it helps to manage and check the credits earned and promote academic flexibility, student-centric education. Our institute motivates the students to learn the best courses of their own interest and learning path. The students are encouraged to learn and earn credits through online mode in SWAYAM, NPTEL, etc. it plays a vital role in offering digital learning and assessment.
3. Skill development:	Our institution imparts training to the students in various fields. Soft skills oriented training programme is provided to face any challenges globally. The students are asked to participate in corporate internships and for shadowing to develop their entrepreneurial skills. Field trips and industrial visit are organized for the students to get into the corporate world. It focuses as on team building activities and problem solving exercises to face the life confidently. Students are trained in first semester on activating productive language skills through Cambridge, an initiative of Tamil Nadu government (NAAN MUDHALVAN). Besides, the students are motivated to participate in extracurricular activities to build their creativity and societal skills. Guest speaker is invited for every semester for the students to enhance their knowledge in their subjects. Language skills, Publications and presentation skills, pilot skills, Projects Internship, Industrial visit, Life

	<p>skills, and Interview skills are improved. Mentorship programmes, collaborations and partnerships with numerous organizations help students to enrich their skills and gain valuable insights from experienced professionals. The institution also has an Incubator which takes support from ATAL Incubation Centre of Puducherry Technological University in promoting startups.</p>
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>The institution emphasizes the bilingual mode of teaching particularly for the Tamil medium students and individual attention is given during tutorial sessions. Also the institution conducts a number of awareness programmes to the students on environment, ancient knowledge and tradition of our country through such clubs. As a part of curriculum, the first year students are learning Heritage of Tamil and Tamils and Technology as it is prescribed by the university. To enhance the communication skill, spoken English course is also offered by the institution.</p>
5. Focus on Outcome based education (OBE):	<p>Outcome based education has been implemented in our institute to impart education through student centric approach and follow outcome oriented teaching learning process. Academic calendar is prepared before the commencement of class work for every semester. Faculty members prepare a lesson plan keeping in view of the syllabi offered by the Anna University. Questions in the internal assessment and assignments are framed such that the assessments of the entire COs are properly made. Based on the performance of students and target fixed for attainment of each CO, assessment of attainment of COs are computed. If the target is not achieved corrective action will be taken by the faculty members.</p>
6. Distance education/online education:	<p>Apart from traditional teaching methods, the students are taught by the online learning and assessment through Google classroom. The faculty members also send their notes and materials prepared by them for the students through Whatsapp. Each department has been accessed with NPTEL link so that they can view the videos in their respective subjects. The students are offered many certificate courses and value added courses in recent trends to meet the future challenges in the society.</p>

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, An ELC has been setup in the college during 2019.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	The ELC was framed with the Principal as Chairperson, a senior teaching faculty as a Nodal Officer, other coordinating faculty members and four student coordinators.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	The ELC is a dynamic initiative aimed at fostering electoral awareness and engagement among students. Through a multifaceted approach encompassing awareness programs through NSS volunteers rallies, seminars, pledge taking, mock polling, selfie point and participation in polling booths as volunteers during the elections to support disabled persons, senior citizens for polling, enrolment drives for students above 18 years in collaboration with the election department, the club plays a crucial role in empowering young citizens to actively participate in the democratic process.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	In addition to awareness program, the ELC organizes rallies to mobilize support for electoral participation. These rallies serve as platforms for students to express their commitment to democracy and advocate for voter awareness. Through vibrant displays of enthusiasm and solidarity, participants not only inspire their peers but garner attention from the wider community, amplifying the message of electoral engagement. One of the pivotal activities undertaken by the club is its involvement in electoral booths. By actively participating in the electoral process, students gain first-hand experience of voting procedures and the functioning of polling stations. This practical exposure not only demystifies the electoral process but also instills a sense of responsibility and ownership among students towards their civic duties.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The ELC facilitates the enrolment of students above 18 years into the electoral roll. Recognizing the significance of voter registration as the first step towards electoral participation, the club conducts drives to encourage eligible students to register and obtain their voter IDs. Through these efforts the club expands the electoral base and ensures that young

voices are represented in the democratic arena. Collaboration with the election department forms an integral part of the club's activities. By liaising with electoral authorities, the ELC facilitates seamless coordination in various election- related processes. This includes organizing voter awareness campaigns, facilitating voter registration camps, and providing logistical support during elections. Such partnerships strengthen the efficiency of electoral initiatives and enhance the overall electoral landscape. By nurturing informed and engaged citizens, the ELC contributes towards the vibrancy and resilience of democracy, ensuring that the voices of tomorrow are heard today.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
982	829	675	712	747

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 96

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
62	66	62	64	71

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
232.08268	137.76362	111.07619	166.17073	165.69418

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Krishnasamy College of Engineering and Technology (KCET), follows the rules, curricula, and syllabus which is designed by the Anna University, Chennai. The objective of our institution is to assure efficient curriculum delivery using creative approaches and prudent techniques. Our systematic strategy is divided into three phases: planning, development and implementation, evaluation.

Faculty requirements from all the departments are received by the Principal during the **planning process**. The Institute creates the academic calendar, which includes a variety of events like the Internal Assessment Test (IAT) schedule, Model Examination, Practical Examination, and the date of syllabus completion, based on the University academic schedule. Co-curricular and extracurricular activities are organized in accordance with the dates specified in the academic calendar.

The students' final choices for elective courses are made during the **Development and Implementation** phase. The KCET faculty members are extremely enthusiastic and have been assigned the courses according to their experience and areas of expertise. Faculty members inform the students to enroll in NPTEL and additional courses to improve their competency in the contemporary world. In order to foster an enthusiastic learning environment, our students are also encouraged to take part in technical events like hackathon, quizzes, paper presentations and project presentations.

1. **Teaching - Learning Methodology:** Faculty members prepare elaborate lesson plans, question banks with answers, and lab manuals for each practical course. In addition, Google Classroom is utilized to provide notes, question banks, and other subject related materials which is more beneficial to the students.
2. **Collaborative Learning:** Appropriate supplementary subjects are covered in every theory and laboratory subject in order to bridge the gap between the industry requirements and the university-mandated curriculum. Students' subject knowledge is further enhanced by creating an opportunity to attend the conferences and workshops.
3. **Competition Based Learning:** Students are motivated to take part in regional and national contests so as to provide a strong motivation that helps to face the challenges in the real-world situations.

During the evaluation phase, IATs are conducted to assess the students' capabilities. Unit tests are also conducted to streamline the students to improvise the writing practice. The Academic Co-ordinator, the Head of the Department, and the Principal periodically monitor the students' performance. In addition, progress reports are delivered to the parents.

Faculty members are required to prepare Course Files that comprises a copy of the syllabus, lesson plan, course material, question bank, IAT question papers, previous year university question papers, and question paper compliance.

The laboratory manuals are prepared for applied courses that include design-based additional experiments along with university mandated list of experiments. Teaching faculty members keep themselves up to date by participating in conferences, seminars, workshops, faculty development programme.

Class committee meetings are held before the commencement of IATs. During the meeting, Student representatives are asked to express the grievances so that it can be resolved in future. Assessment tests and model exam are conducted at specified intervals. After every assessment test, result analysis is carried out and necessary remedial measures are taken for mouldable and slow learners.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 63

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Other Upload Files

1

[View Document](#)**1.2.2**

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 86.89

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1493	763	212	471	489

File Description**Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)**1.3 Curriculum Enrichment****1.3.1**

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

Response:

Our institution follows the curriculum prescribed by Anna University, Chennai. Cross-cutting topics like gender equality, the environment and sustainability, human values, and professional ethics are well interwoven into the Anna University curriculum. Environmental Science and Engineering is a mandatory course in all under graduate degree programmes.

Krishnasamy College of Engineering and Technology emphasizes gender equality in every aspect. Both genders possess equal opportunity in all co-curricular and extracurricular activities.

Women Empowerment Cell has been set up with the purpose of empowering female students and staff. In addition, it creates awareness about women's issues in society and giving hands to face the obstacles with courage. It strengthens the women, through a variety of initiatives such as guest lectures, seminars, workshops, awareness programme, and welfare activities. On top of that, women are motivated in getting their rights and human values in the society.

Besides, other activities such as International Women's Day, International Yoga Day and Meditation are held in the college campus to make them more potential in all their endeavors.

Professional Ethics

As Engineering is a highly esteemed profession, honesty, integrity, impartiality, and equity are must have qualities. Engineers are trained to perform under a code of Professional Ethics that would have the highest principles of ethical standard. Institute has equal importance for professional ethics along with academics because knowingly and willingly none should involve in wrong behaviour. Professional ethics encompasses personal and corporate standards of behaviour expected by professionals. The students of different branches in Engineering, study Professional Ethics that address to learn moral values. The institute organizes various personality development programme through Training & Placement cell to increase the employability of students. Industrial Visits and Internships are included in curriculum and experts from corporate are invited to share their views to understand corporate standards and culture.

Environment and Sustainability

In order to integrate the cross cutting issues relevant to environment and sustainability, University has included different types of courses in the curriculum to bring awareness among the students. All programmes have compulsory courses for Environmental Science and Engineering in first and second year curriculum. In this course, students study basic components of environment and its application to tackle issues such as pollution control, green gases etc. Renewable energy sources, Hospital management are included to create awareness among the students about Environmental issues. The institution has taken the efforts to give awareness on environmental issues and its sustainability to society through extension activities by NSS. Students indulged in various clubs motivates them to get engaged in Tree Plantation activities.

The institution has taken the efforts to give awareness on environmental issues and its sustainability to society through extension activities by Tree plantation, and collection of E-Waste day event.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 64.56

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 634

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 63.84

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2022-23	2021-22	2020-21	2019-20	2018-19
306	286	204	214	189

2.1.1.2 Number of sanctioned seats year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
396	391	356	361	374

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 68.42

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2022-23	2021-22	2020-21	2019-20	2018-19
166	165	113	133	88

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

2022-23	2021-22	2020-21	2019-20	2018-19
214	221	201	177	159

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 15.84

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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The sole aim of the institute is to primarily strengthen the academic potential of the students. The student centric approach encourages the students to get fruitful educational experiences. Different types of student centric strategies are created to increase active participation in experiential learning, participatory learning and problem-solving skills.

Experiential Learning

Experiential learning approach involves learning through experience and reflection. Experiential learning can take many forms, including Hands-on activities, Field trip and Project works. Industrial visits and Workshops are concrete experiences where students understand the responsibility of the engineering profession and it provides an opportunity for them to improve technical skills and gives practical exposure. Students are involved in real time projects and a few innovative projects.

All the students are involved in experiential learning by doing mini projects, major curriculum projects and internship in industry in order to develop professional skills. State-of-the-art laboratories have been established to enrich the practical knowledge of the students.

Participative Learning

Students are encouraged to explore knowledge through participation in programming classes, paper presentation, seminars, guest lectures and quiz competitions. Professors, experts and alumni are invited to deliver lectures and the students are encouraged to actively participate in the interactive session. NPTEL, SWAYAM Online courses gives the opportunity to the students.

Problem Solving Methodologies

Students are encouraged to improve their problem-solving skills by participating in various technical events like project contest which is organized by the institutions. Discussion methodology is used in many of the subjects as it makes the students to think widely. Students are encouraged and guided to involve themselves in various real-life projects such as Electrical Vehicle, Rainwater harvesting, Waste management discussions. Also, the students are motivated to publish research papers in reputed journals and to prepare for GATE and Competitive exams.

Teachers use ICT enabled tools for effective teaching-learning process

ICT enabled tools are used by Krishnasamy College of Engineering and Technology (KCET) to support effective teaching and learning methods. Students are exposed to variety of learning materials with different learning style.

The following methods are adopted in the institution in the teaching-learning process

- The Seminar halls in all departments are equipped with internet-enabled computers / laptops, LCD projectors with multimedia facilities are used to showcase PPT, Videos, and simulations to create the best possible learning environment.
- Instead of teaching from a traditional method, faculty members have been using resources like e-books, National Program on Technology Enhanced Learning (NPTEL) technical articles

published to journals.

- Students can access NPTEL courses in digital library and also they can access the content in their department by using same IP address.
- Seminars, Workshops, and Guest lectures on recent advancements in the fundamental courses are arranged for efficient teaching and learning.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 93.39

2.4.1.1 Number of sanctioned posts year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
68	67	69	71	73

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 16.31

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
15	11	11	8	8

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

KCET follows transparent mechanism for internal and external assessment. In order to ensure the transparency, the internal assessment test schedule is communicated to the students well in advance as per the schedule given in the academic calendar.

Slip tests and assessment tests are conducted on a continuous basis and the performance of students is analyzed. Student centric learning is ascertained through collection of assignments and various other activities like seminar, group discussions etc.

The HOD verifies the pattern, quality and correctness of the question papers that are sent to the examination cell on time for printing, the answer papers are valued and handed over to the students within three days from the conduct of examination. After completion of the internal exams signature of candidates is obtained in answer script, grievances if any sorted-out time to time.

After the assessment test, the results are discussed by the HOD along with subject staff. Feedback on internal assessment performance is given to the students by the concerned faculty on a routine basis.

The assessment test performances along with the attendance details are periodically communicated to the parents through a progress report. If required parents are called to discuss measures for ensuring the progress of the candidates. Remedial tests and coaching classes are arranged for slow learners.

The mentor strives hard towards improving the student's academic performance through proper counseling and guidance.

As per the regulations of the affiliating University 80% weightage is given for the end semester exams and 20% weightage for continuous internal assessment. The faculty members are bound to enter both the attendance and Internal Assessment marks of the students periodically in the Anna University Web portal. Students can view their attendance and internal test marks in web portal which can be viewed at any time. Many other services including registration of elective subjects through Web Portal have been facilitated which ensures transparency.

The University appoints examiners for the practical examinations and viva voce examinations. The Institution also sends its faculty members as examiners based on the order received from affiliating University for evaluating the end semester answer scripts.

The College has devised systematic evaluation procedures, assessment indicators in line with the guidelines of the University. During the end semester examination, the discrepancies in the question paper are intimated to the exam cell by the subject handling staff through question paper compliance with the knowledge of principal.

After the semester examination results, students have provision for receiving photo copy and applying revaluation of the answer script. The internal subject expert evaluates the photocopy and recommends for the revaluation. The application for the revaluation is forwarded to the University by the exam cell.

The revaluation result will be published after completion of the process. The students can apply for challenge revaluation if they have any disagreement in the revaluation result.

Other grievances like correction in the grade sheet (DoB, duplicate grade sheet etc..) are rectified by representing to the Controller of Examinations, Anna University.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

Krishnasamy College of Engineering and Technology adopts Programme Educational Objectives (PEOs), Programme Specific Outcomes (PSOs), Programme Outcomes (POs) and Course Outcomes

(COs) from Anna University. By implementing Outcome-Based Education (OBE), our Institute focuses on a student-centric approach, emphasizing outcome-oriented teaching and learning processes. In alignment with OBE principles, POs, PSOs, PEOs, and COs have been established for all undergraduate (UG) and postgraduate (PG) programs, except for PSOs in the PG programs.

Programme Educational Objectives (PEOs) are broad statements that outline the career and professional accomplishments that graduates are expected to achieve within 5 years after graduation. These objectives provide a vision to the graduates potential career and contributions in their fields, highlighting long-term achievements.

Programme outcomes, or POs, are statements that outline the knowledge and skills that students should be able to acquire from their specific programmes. These results cover the behaviours, attitudes, knowledge and analytical capacities that students develop during the course of their programmes.

Programme certain Outcomes (PSOs) are designed specifically for each programme and outline the knowledge and skills that graduates are expected to possess in certain areas of their career. PSOs enhance graduates' expertise and employability in particular sectors by focusing on the distinct competencies and knowledge areas that are essential to the discipline.

Course Outcomes (COs) are concise descriptions of the skills and information that students will acquire upon successfully completing a certain course. Every curricular course has its own unique COs, which are linked to POs and PEOs using a course articulation matrix. By matching individual course outcomes with overall programme aims and educational goals, this matrix guarantees that each course contributes to the larger programme goals.

OBE emphasizes the use of Bloom's Taxonomy levels (BTL) to estimate the knowledge level of students, particularly in relation to COs. This taxonomy classifies learning objectives based on complexity and specificity, ranging from basic recall of facts to higher-order thinking skills like analysis, evaluation, and creation. By aligning COs with Bloom's Taxonomy, we ensure that our educational programs progressively build students cognitive and conceptual understanding.

Our institution's website serves as the primary hub for accessing comprehensive program information, enabling easy navigation for students and faculty members. Additionally, we employ various offline channels to ensure the broad dissemination of PEOs, POs, and PSOs. These outcomes are prominently displayed in classrooms, laboratories, faculty and HOD rooms, libraries etc. This ensures that they serve as tangible resources, offering detailed insights into the distinct educational experiences provided by our programs. Information is also disseminated to stakeholders such as faculty, alumni, and employers through surveys.

Faculty members prepare lesson plans for each semester, based on POs and COs, ensuring that teaching activities are aligned with the desired outcomes. The Head of the Department (HOD) and the Course Instructor work together to create awareness among students about POs, PSOs, and COs, emphasizing the importance of achieving these outcomes.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Krishnasamy College of Engineering & Technology is committed in providing excellent education through a meticulous approach in evaluating Program Outcomes (POs) and Course Outcomes (COs), aligned with the guidelines outlined in the AICTE examination reforms.

The process of assessing programme outcomes and course outcomes are divided into two categories such as direct method and indirect method. Direct method shows the student's knowledge and skills from their performance in the internal assessment tests, assignments, end semester examination etc. Indirect method is used to assess opinions or thoughts about the knowledge or skills gained through various surveys like Course Exit Survey (CES), Program Exit Survey (PES), Alumni Survey and Employer Survey.

CO Attainment

The COs are mapped against each question and analysis are carried out by our faculty members for each course and documented in faculty course file. The contribution of COs is assessed in high, moderate and low levels, towards the attainment of POs / PSOs.

For all courses, 80% weightage given to direct attainment of assessment tools such as Internal Assessment tests and End semester exams. The remaining 20% weightage is given to indirect attainment by CES.

POs and PSOs Attainment

Based on CO attainment and CO-PO mapping table, direct attainment of POs and PSOs are calculated at the end of every semester and aggregated by the time of course completion of each batch of students. Indirect attainment of POs and PSOs are done through Programme Exit Survey, Alumni Survey and Employer Survey. The final PO attainment is achieved by giving 80% and 20% weightage through direct and indirect methods respectively.

COs, POs and PSOs attainment calculation are as follows:

Course wise threshold value (attainment) shall be fixed based on bench marks by the faculty in consultation with the HoD while the level of attainment is fixed by IQAC for each batch of the entire institute. Based on the assessment procedure, the COs articulation matrix is calculated for each course.

COs Attainment is calculated based on the marks scored by the students in IAT1, IAT2, Model Examination, End Semester Examination (ESE) and CES. If the attainment is achieved, it is inferred that CO is achieved for that course. The gap is reviewed and analyzed, thereby adopting the effective teaching-learning methods for continuous improvements. Finally, POs are mapped with COs for each course at the end of the programme; i.e., Final COs-POs attainment Matrix. If the POs / PSOs attainment is less than the target, reform measures in the teaching and learning method in order to improve students' performance for subsequent batch in consultation with Head of the Department / Principal / IQAC Coordinator.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 66.73

2.6.3.1 Number of final year students who passed the university examination year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
160	138	166	105	121

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
230	161	177	233	233

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

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

Response: 1.93

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

2022-23	2021-22	2020-21	2019-20	2018-19
0.575	0.575	0.150	0.350	0.275

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

The institution instils the spirit of innovation and unquenchable thirst for knowledge in the young minds through academic, research and extension activities. The main objective of the Eco-System for innovation is to promote creativity and novelty among students. Faculty members facilitate development of innovative systems, processes, products, technologies and services for the benefit of the society. The institution has very much realised that understanding of Indian Knowledge System by its stakeholders which is highly important in nurturing a sustained development while promoting innovation and creativity with a socialistic approach. R&D Cell conducts awareness meets, workshops, seminars and guest lectures on research orientation. It emphasizes raising awareness about Intellectual Property Rights (IPR), ensuring that creators understand how to protect their ideas and innovations. The institution also has an Incubator which takes support from ATAL Incubation Centre of Puducherry Technological University in promoting startpreneurs.

LABORATORIES FOR RESEARCH:

Computer Science & Engineering:

The Cloud Computing Lab has computers with Open source software like OpenCog, AForge.NET, OpenCV, TREX, ROS, YARP, JAVA, Arduino Trainer Kit, Rasperry pi and Embedded IoT Applications and are used for carrying out research projects.

Civil Engineering:

Compression & Flexural Testing Machines, Slump Cone, Flow table, Vee Bee consistometer at Concrete Lab are used for Concrete testing.

Electrical and Electronics Engineering:

The Renewable Energy System laboratory is used for research orientation as stated below:

- The laboratory can be used to study the integration of renewable energy systems with existing energy infrastructure and evaluate the performance, efficiency of renewable energy systems.
- Students can test prototype renewable energy systems to assess their feasibility, reliability, and scalability before full-scale deployment.

Electronics and Communication Engineering:

Advanced Communication Laboratory serves as a research hub where researchers delve into cutting-edge topics like fiber optics, photonics, and laser communication systems.

Mechanical Engineering:

An exclusive Solar thermal reserach lab with Solar Stills, Solar power meter, Mini Professional weather station, Data acqisition connected to RTDs and hygro sensor promotes and supports reserach in the respective field. An Intellectual Property Right entitled "Evaporation Enhancing Unit" has been added to its credit.

Mechatronics Laboratory has the following facilities for stimulating the research interest among the students.

- Multi Process Station equipment with advanced control system like pressure, temperature and flow sensor.
- Temperature sensor and FHP pump for water circulation, attached with a storage tank of 5 liter capacity.
- Power driver to drive the pump and heater, electronic signal conditioner and level flow indicator.

Centre for Innovation and Entrepreneurship (CIE):

CIE Established in 2010, encourages students to work on innovative projects. Real time projects in various domains like software application development to core engineering solutions such as Energy Audit, Solar still for distilled water production. Through CIE, KCET has entered into a MoU with TCS

iON for conducting Online Examinations like GATE JIPMER, using the vast IT sector. CIE has organised various programmes for Govt. of India and Govt. of Tamil Nadu in a short span of time. Especially, 67 days of programme has been conducted for 75 beneficiaries from 7 districts.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 77

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
20	20	7	16	14

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.45

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
3	11	12	8	9

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.28

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

2022-23	2021-22	2020-21	2019-20	2018-19
5	6	3	11	2

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

Krishnasamy College of Engineering and Technology (KCET) is an active participant in conducting various holistic extension activities through our students to the neighborhood community. KCET has the following active clubs such as NSS, NSO and YRC to nurture and create the social awareness and holistic development among the mankind. The improved awareness and increased social responsibilities and green consciousness are the outcomes through such activities.

National Service Scheme (NSS):

National Service Scheme (NSS) was introduced at our institution in the year of 2005 with the primary objective of developing the personality and character of the students through voluntary community service. 'Education Through Service' is the purpose of NSS. The ideological orientation of NSS is inspired by the ideals of Mahatma Gandhi. Very appropriately the motto of NSS is "NOT ME, BUT YOU".

Youth Red Cross (YRC):

Youth Red Cross (YRC) was introduced at our institution in the year of 2003. Youth represents a substantial part of the membership of Red Cross for its Humanitarian commitment. Young volunteers can make a significant contribution to meet the needs of the most vulnerable people within their local communities through Red Cross Youth programme. This has been designed to involve young people as much as possible in the movement not only as workers and also as beneficiaries.

In KCET the YRC Unit is developed to satisfy the following:

- Protection of Health & Life
- Service to Sick and Suffering
- Promotion of National and International Friendship, to develop mental and moral capacities of the Youth

In KCET, the following programs are conducted to prove social responsibilities of youth by creating awareness among public.

- Drugs Awareness Program
- Collection of E-Waste
- Swachh Bharat Mission or Clean India Mission
- Eye Donation Awareness Campaign
- Tree Plantation
- Save Water Save people
- Cleaning Water Bodies

- CANCER Awareness Program
- Aids Awareness Program
- COVID-19 Awareness Program
- Blood Donation
- Health Camp Programs

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Krishnasamy College of Engineering and Technology has not only scored great accolades in academics alone, in the view to create the holistic environment, through extension activities our clubs are anticipating various social awareness programs in the name of extension activities. KCET had undertaken the institution's ethical grounds with a view to promote community services through the setting-up wings of YRC and NSS with the active involvement of the students. KCET has also got proud moments when receiving recognition at the state level for its relentless effort for involving in servicing the neighborhood and outreach activities. The institution has never missed a chance of earning good will and recognition from the neighboring communities, villages and also from government for the extension and outreach activities that the institution has carried out through YRC and NSS. The goodwill and recognition that the institution earned for the extension and outreach programs are remarkable which has been accomplished by getting some work force of volunteering of the students and faculty members of the college. These outreach activities ensure that the students are sensitized about the social issues pertaining to the surroundings.

The outcome is that students become well rounded personalities apart from excelling in their own careers. By living with the villagers, the students tend to understand the dignity of labor, the difficulties faced by the village people and these in turn shape them into socially conscious citizens. Maximum percentage of the students has participated in the extension activities during the last five years.

Hence to groom students with such social responsibility and to work ethically, participation of students in extension and outreach activities are indispensable. KCET with its faculty and student's support has contributed its maximum cooperation for the benefit of the neighboring regions via Institution's NSS unit through various activities.

Awards, Recognitions and appreciations Increased our Motivation and Created Positive Environment for facilitating more such initiatives. Our NSS Programme officer Mr. V. Gunaseelan, received the Appreciation certificate for the services rendered by our volunteers under "SWATCH BHARAT 2.0" at

Varakalpattu, Panchayath held on 28.10.2022. The former NSS Program officer of our Institution, Dr. E. Ramesh, received the Appreciation certificate for having rendered valuable service on occasion of the "Tamil Nadu Legislative Assembly Elections - 2021" held on 06.04.2021 by involving our volunteers. Former NSS Programme Officer Mr. S. Rafi Ahamed was appreciated by "Tamil Nadu State AIDS control Society and Tamil Nadu State Blood Transfusion Council" for having lead our voluntary Blood Donation services from the front.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 66

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
18	16	4	16	12

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 88

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

Krishnasamy College of Engineering and Technology strongly believes that adequate infrastructural facilities are the key elements to provide quality education and strong academic development to create capable and confident individuals.

ICT Enabled class rooms:

The institute is a widespread campus of 101,414 sq.m, ensures an excellent learning ambience with its spacious and ventilated classrooms spread across 4 blocks, common faculty rooms for each department to create enough privacy for mentoring students, and ICT-enabled seminar halls to support and enhance the delivery of lecture to the students.

Auditorium:

Sivaramakrishnan Memorial Auditorium features a spacious air conditioned indoor auditorium that can accommodate up to 1000 persons in total. It has a collapsible sound proof hall which can be partitioned having a seating capacity of 600 in front and 300 at the back for conducting events simultaneously.

Central Library: (K.S. Narayanasamy Knowledge Centre)

The central library is a learning hub for KCET with an area of 3085 sq.m housed on the first and second floors of the building. The library contains a well-organised information desk, circulation section, reference section, and a digital library. It is enriched with books on Engineering, Science and Technology, Computer Applications, Arts, resources for GATE and TNPSC, journals from MAT and DELNET. It is fully computerised with I-LIBRARIAN and NIRMAL SOFTWARE. It is also equipped with an Online Public Access Catalogue (OPAC) for retrieving books and for searching other learning materials.

Sports:

Sports activities are highly cherished in our institution. The college offers excellent sports facilities and professional instruction for student's participation in sports. Students are encouraged to participate in

variety of events that are organized at the district, zonal, and state levels. Sports amenities such as cricket ground, football field, volleyball, basketball, shuttle and ball badminton courts etc. are available. A sports village spread over 3 acres is dedicated exclusively for sports activities (both indoor and outdoor games).

Hostel and Canteen facilities:

The College provides separate hostels for boys and girls with all adequate amenities to concentrate on their studies. Hygiene and cleanliness are emphasised in the hostel. Faculty members, who reside in the hostel act as a mentor addressing the academic and personal issues of the students. The institution provides hygienic foods and snacks in canteen at two different venues.

Health Centre:

The College has exclusive Dispensaries for men and women managed by a Paramedical staff to provide first aid and for emergency medical requirements. An ambulance is available 24 x 7 to take the students as well as staff who are in need of specialised medical attention to the Hospital managed by our Trustees.

Miscellaneous facilities:

The institution has a vision to offer their students with various facilities, like gymnasium, which provides an ambience for weight training, strengthening and weight loss. Yoga programmes are also conducted periodically for students and faculty members to maintain physical and mental fitness. Round-the-clock security, internet facilities, purified drinking water, waiting halls, rest rooms are available. To ensure the safety, fire extinguishers are placed on all floors and are refilled periodically.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 19.75

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
56.24	28.11	21.60	31.10	23.47

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

The library named as 'K.S. Narayanasamy Knowledge Centre' is a knowledge repository for young aspirants. It has a reference section and a circulation section with a seating capacity of 128 and 120 respectively. The digital library is part of the central library and has 18 personal computers. The library has a collection of 52,160 books, 54 periodical journals, 71 encyclopaedias, 120 GATE books, 2021 CDs, 5354 conference proceedings, 13989 journal back volumes, 164 dictionaries, and 3182 project reports. It also has records of the college magazine, newsletter, academic syllabus and regulations, course materials, end semester question papers, etc.

ILMS – Library Automation:

The library is fully automated with I-Librarian and NIRMAL software. It is also well established with the OPAC for easy retrieval of books and usage. The key functions of library automation are acquisition, cataloguing, circulation, course management, reports and reference services. All the faculty members and students are members of the central library. All the books are bar-coded and laser scanners are used for the accountability of transactions. For circulation of books, generated Barcode is affixed to the ID cards of both the students and staff.

Working hours:

Library working hours : 12 Hours

Monday to Saturday : 8.00 a.m. to 8.00 p.m.

The institute has a digital library with 18 terminals. It offers access to the National Digital Library of India repository and NPTEL, Swayam, Shodhganga portals for access to different courses on Science, Engineering, and Management. It also has an approved NPTEL local chapter. It has a collection of E-journals with 54 MAT journals and 682 DELNET journals. The institute provides the national knowledge network connectivity through digital library. The E-learning resources (NPTEL) can be

reached through dedicated IPs across the institution, so that both the faculty and students can access the above mentioned resources through the intranet. Reprographic facilities are also available.

Circulation Management:

Students can check the availability of books either by searching OPAC or the stack area physically. As per the regulations of statutory and affiliated authorities, text books and reference books are made available in the library.

Library usage and monitoring:

It can generate and print number of reports like book issue and return, books categorized by accession number, author, subject, department, publishers, title, etc., periodically.

LIBRARY DETAILS:

Number of walk-ins in last five years	32005
Number of books issued / returned in last five years	12453
Ratio of library books to students enrolled	1.1 : 1
Number of books added during last five years	1122
OPAC (Online Public Access Catalogue)	Yes
Electronic Resource Management package for e-journals	Yes
Library Automation	Yes
Internet bandwidth / speed(GB)	100 Mbps / JIO

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

Computing Resources:

The institution is equipped with 532 computers of which 472 computers are exclusively dedicated for the

students, enabling every individual to enrich their knowledge by using the digital resources. Most of the computers in the college are connected to a LAN for campus wide connectivity. Multimedia projectors with PC and internet connections are provided in the seminar halls. All the computers on campus are connected to the UPS providing a power back up for about 45 minutes.

Internet connectivity:

The institution had a reliable IT infrastructure linked to the LAN and internet access via dedicated 50 Mbps leased line broadband connection from BSNL earlier. Currently, internet facilities are offered through JIO net services with a speed of 100 Mbps in accordance with the suggestions made by IQAC. The computers across different blocks are interconnected with the LAN through switches. On the whole, 23 printers and 6 scanners are available. All departments, libraries, offices, HODs are facilitated with individual systems and printers. A dedicated information technology-enabled service is made available with the help of exclusive employees deployed for the purpose of maintaining and enhancing the IT infrastructure and associated facilities. The institution updates its IT infrastructure periodically to facilitate effective management of services. Periodically, the hardware, network, and software infrastructure is upgraded to meet the requirements.

Student - Computer Ratio:

The present student - computer ratio is as **2.08: 1**

Updated IT Facilities:

A biometric system is provided to capture the facial recognition of faculty and staff members to record their attendance. 31 cameras are installed at various locations connected to two DVRs for the safety of students and faculty members. The cameras are increased from time to time based on the requirements. Intercom facilities are available to ensure effective communication across the entire institution, like the offices of the Principal, Vice-Principal, Administrative officer, HODs, staff rooms, library, canteen, hostels, security office, etc. Wi-Fi connection is also provided inside the campus. All departments are equipped with multimedia projectors (LED/LCD) for effective teaching - learning. Auditorium and seminar halls are provided with multimedia projectors. The campus is enabled with power backup with the help of UPS and diesel generators.

Technology- focused educational initiatives:

The faculty and students are encouraged to participate in the online seminars, workshops organized by various institutions by utilizing the IT facilities available in the institution. Guest lectures on current technologies are also conducted online by inviting senior faculty members from other institutions and industries. The institution organizes industry connect programme for the faculty members and students to be aware of the expectations of industry and current developments in both online and offline mode. The students are regularly provided with various placement training programs covering technical, communication and soft skills both online and offline. NPTEL course materials of different science and engineering disciplines are made available through LAN connectivity.

Name of the Internet provider	JIO
Available Bandwidth	100 Mbps (JIO)
Internet Access in Library, Office, Departments	Yes

Network Security Arrangements	Yes, INTEL DUAL CORE
File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2

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

Response: 2.08

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 472

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1**

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 35.36

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

2022-23	2021-22	2020-21	2019-20	2018-19
86.97	46.00	30.41	58.41	65.62

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 87.53

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
871	748	622	612	600

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

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. ICT/computing skills

Response: A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 78.5

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

2022-23	2021-22	2020-21	2019-20	2018-19
743	626	528	578	622

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

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
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 69.86

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
111	96	110	71	94

5.2.1.2 Number of outgoing students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
160	138	166	105	121

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 2.4

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	1	1	3

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 8

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
3	0	1	3	1

File Description**Document**

Upload supporting document

[View Document](#)

list and links to e-copies of award letters and certificates

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 32.6

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
54	47	10	18	34

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1

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

Response:

Krishnasamy College of Engineering and Technology (KCET) has played a pivotal role in shaping the careers of students into technocrats, leaders, entrepreneurs, researchers and global managers. Developing an active and engaged alumni network empowers both the Institute and its graduates. KCET has registered Alumni Association as a society under the Government of Tamilnadu Societies Act with the registration id: SRG/Cuddalore/93/2022.

Alumni meet is being conducted accordingly in conjunction with the Graduation day celebration. The first Alumni meet was conducted in 2006 with the first set of students from all branches.

KCET takes pride in many of our prominent alumni who are currently holding eminent and renowned positions in various companies including JBM automobiles, Foxconn, Pegatron, Finzly, Wistron etc., Many alumni are serving as successful entrepreneurs and also placed as administrators of State and Central Government.

Our alumni are available in many countries around the world and some of the proud say that a considerable number of our passed-out students are in U.S.A, U.K., Germany, Australia, Canada, Singapore etc. in pursuit of either higher studies or employment.

The Alumni Association provides an avenue for sharing their intellectual, career and professional experience not only with the teachers but also with the present students. The following are the activities carried out with the help of Alumni.

Interactive Sessions:

Every year Alumni meet will be hosted by the Alumni association and supported by the Management where the alumni from different branches are invited to share their views and suggestions on the scope of their course and also to create awareness about the professional world. This paves an opportunity for the alumni to meet other alumni and cherish their past experiences and moments. They also involve themselves in their respective department activities like guest lecture, workshops, project reviews, judges for competitions etc.,

Mentorship:

Alumni can play an active role in voluntary programs like mentoring students in their areas of expertise.

- To utilize the rich experiences of old students of the college.
- To assist the students in securing suitable jobs.

Placements / References:

The alumni network of a college is one of the biggest sources of placement opportunities to the students. Alumni helps students in referring to companies and get placed in their respective organizations.

Administration:

Alumni are members in IQAC and provide inputs for imparting quality system adaptive to recent trends and requirements of industry. Alumni were appointed as faculty members and presently 20% of the faculty members are our alumni and are serving as regular teaching faculty members.

The Institution maintains a friendly relationship with the alumni and collects their valuable feedback and suggestions for the growth and development of the Institution now and then. The profile of notable alumni was collected and uploaded in the college website.

Thus, KCET has an effective alumni network assures the alumni as a significant stakeholder by making them actively participate in the institution’s developmental activities.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

The management is to achieve excellence in technical education for the students, in particular from rural areas.

Vision:

To gain international recognition as a world class Technical Institution through discipline and devotion in performing our duties.

Mission:

- To provide high quality technical education meeting international benchmarks.
- To impart practical skills along with sound theoretical knowledge with the participation of industry.
- To work for the development of society in general and the rural masses in particular in collaboration with other institutions and agencies.

Quality Policy:

To provide excellent infrastructure and conducive learning environment is complying the requirements of standards in proactive response to the changing needs of industry, While striving continually to improve the quality of services rendered by the institution through process control.

To strive for an all-round development of our stakeholders by creating competent and empowered technocrats with high moral and ethical values.

Nature of Governance:

The Governing Council is chaired by the Management, with the Principal, academicians and Industrial experts as council members. The Governing Council is the policy-making body of the institution and defines the responsibilities of the College administration in providing quality technical education to the rural environment. As per their directions, the college has been implementing the National Education Policy 2020.

- Institution practices the skill development programs to improve the skill set of the students.

- Students get an opportunity to choose open electives subject based on their talents and interests to emphasis the institutional practices flexibility.
- Institutional practices in recognizing, identifying and fostering the unique capabilities of each student, by sensitizing teachers as well as parents to promote each students holistic development in both academic and non-academic spheres.

The Governing Council considers the views of the IQAC submitted through Principal and recommends for implementation to fulfil the objectives of the institution. The committees are as follows:

Statutory committee

- Governing Body
- Academic Council
- Finance Committee
- Planning and Monitoring Committee
- Internal Quality Assurance Cell

Non-Statutory committee

- Grievance Redressal Cell
- Anti-Ragging Committee
- Internal Complaint Committee
- Discipline and Welfare Committee
- Training and Placement Cell
- SC and ST Cell
- BC, MBC and OBC Cell
- Women Empowerment Cell
- Counselling and Guidance Cell
- Institution Industry Cell
- Media Cell
- Student Counsellor Cell

Our Institution has an efficient decentralized administration with transparency. The management frames the policy of the institution in consultation with the head of the institution. The head of the institution frames the action plans in consultation with the heads of the departments. In the departments, the responsibility of implementing the plans is delegated to the individual members of the faculty and their work will be guided and monitored by the head of the respective department.

Perspective Plan:

The perspective plans are prepared by IQAC under the guidance of Governing Council and head of various departments. To ensure continuous improvement of the institution, all the plans and executions are monitored regularly. The aspects are to be included in the perspective plan which is drawn from the recommendations of committee.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

Institutional perspective plan serves as a comprehensive blueprint for the strategic development of the institution and is meticulously crafted under the guidance of the Governing Council and departmental heads. This plan outlines the long-term goals, objectives and strategies necessary for the institution's growth and advancement. It takes into account various factors such as academic excellence, infrastructure development, faculty enhancement and student welfare.

Simultaneously, the academic calendar, a crucial component of this planning process, is diligently prepared by the Planning and Monitoring Committee. This calendar serves as a roadmap for the academic year, incorporating all pre-planned activities, events, and programs across different departments. It also includes a well-structured assessment test schedule to ensure timely evaluations of student progress.

Furthermore, the academic calendar is designed to align seamlessly with the academic schedule provided by the Anna University, ensuring coherence and consistency in educational delivery. This synchronization enables smooth coordination between the institution and the university, facilitating efficient academic operations.

Continuous monitoring and evaluation mechanisms are implemented to track the progress of planning and execution. Regular assessments help identify areas for improvement and allow for timely interventions to address any challenges or bottlenecks encountered during implementation.

The allocation of the annual budget is a top priority in the development plan, ensuring sufficient resources to support strategic initiatives and operational needs effectively. Prioritizing budget allocations demonstrates the institution's commitment to fostering an environment conducive to academic excellence and overall institutional growth.

Perspective plans of the Institution

The institution's perspective plans outline strategic goals, adopting standards, securing NAAC and NBA accreditations, achieving global recognition through autonomous status, fostering Industry-Institute partnerships, seeking accreditation with reputed companies, and actively participating in national ranking frameworks.

Short term Perspective Plan:

- To upgrade the Infrastructural Facility
- Getting NAAC accreditation with high Grade
- Getting NBA accreditation to all eligible departments
- To attain autonomous status and global recognition
- To enhance student's research Quality

Long term Perspective Plan:

- To attain NIRF Ranking
- Accreditation by reputed multinational companies
- To endeavour international collaborations by MOU
- To get Grants from Government organisations
- To ensure all teaching staff attain Ph.D. qualification

Administrative setup

In the administrative setup, the governance structure of the College is a collaborative effort involving the Management, Principal and Staff. Responsibility flows seamlessly from the management to the principal, who oversees academic developments and monitors overall progress through departmental heads and staff members.

Appointment, Service Rules and Procedures

Adherence to AICTE and Anna University norms is a cornerstone of the administrative practices, influencing area such as administration, staff recruitment, promotion and salary. These rules and regulations are transparent to the staff members, promoting awareness and accountability.

The Academic Council, chaired by the Principal and convened by the Vice-Principal, oversees academic activities. Regular coordination meetings discuss performance and decisions, with minutes forwarded to management and the academic council. These meetings shape the Governing Council's agenda, ensuring alignment with institutional goals.

The rules, procedures, recruitment and promotional policies of the institution are transparent and accessible to the stakeholders.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2***Institution implements e-governance in its operations***

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3 Faculty Empowerment Strategies**6.3.1**

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

The Krishnasamy College of Engineering and Technology has set up well established principles, rules and regulations, complaint redressal cell that are always open at liable information desk. Faculty members are promoted based on self-developmental activities and higher education expertise. Staff are provided with Subsidized Transport, Purified Drinking Water, Uniforms, Waiver of tuition fee for their wards, Vacation Leave, Provident Fund, ESI, Compensatory Off, Free medical assistance, Special permission for medical emergencies and Postnatal care. Institution appreciates the faculty on acquiring higher qualifications and special achievements, and conducting the orientation programmes for new faculties.

Teaching and non-teaching staff play an important role in the institute's growth. The institute recognises their productivity, needs and requirements on a regular basis. As a result, the institution is putting in place a variety of effective welfare programmes. These improve employee's physical and mental health, promoting a dynamic and encouraging work environment.

Welfare Measures for Teaching and Non-Teaching staff

- 1.ESI and EPF benefit for eligible staff
- 2.Transport facility at subsidized rate for all the staff members
- 3.Fee concession for wards in parent and sister institutions
- 4.Uniform
- 5.Free medical assistance and Ambulance (24X7)
- 6.On-Duty for programmes and higher education
- 7.Morning and Evening Tea Refreshment
- 8.Hot and Cold Water facility
- 9.Internet and Wi-Fi facility
- 10.Free Hostel accommodation with boarding at subsidised rate
- 11.In-campus banking with ATM facility
- 12.Special permission for medical emergency and postnatal care

Performance / Self-Appraisal

Krishnasamy College of Engineering and Technology has implemented an appraisal system for staff to ensure that their performance is evaluated and feedback is given for further development. The appraisal system should be based on a combination of quantitative and qualitative criteria, such as work quality, teamwork, efficiency, personnel development and innovation. Our college also provides training and development opportunities to help staff to reach their professional goals and become more productive. Finally, the system should have transparency and include appeal process for staff to address any grievances which they might have.

Key elements of faculty appraisal (Self appraisal)

- Academic performance
- Innovative projects guided
- Continuing education organized and attended
- Additional responsibilities in department and Institute levels
- Membership of committees / boards
- Membership of professional societies
- Honors received (Awards, Fellowship etc.)
- Consultancy
- Particulars of research paper presented / published and book published
- Involvement in research
- Other achievements like patents, funds received from Government and Non-Government agencies.

Faculty members fill and submit their self appraisal form to the Principal through HOD, the Vice-Principal and the scrutinizing committee will reveal and communicate the appraisal to the management.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2

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

Response: 57.85

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

2022-23	2021-22	2020-21	2019-20	2018-19
57	5	12	55	59

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 64.69

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
64	69	54	55	20

6.3.3.2 Number of non-teaching staff year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
14	15	16	17	18

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Mobilization of Funds for various resources:

Funds are mobilized from the following resources:

1. Scholarship from government, student fees, Anna University.
2. Additional funding sanctioned from various funding agencies such as TNSCST, etc., for research and seminar proposals submitted by various departments.
3. Online digital assessment fund using IT infrastructure.

4. Income from various offline examinations.

Budget Planning:

All the administrative and academic heads are requested to submit the budget required for the subsequent financial year. Along with this coordinators of different cells such as Research and Development cell, Exam cell, Training and Placement cell, NSS unit, etc. are instructed to submit their budget to the principal for consideration of recurring and non-recurring expenditures. The Finance committee analyzes the requirement of each department / cell and prepares a consolidated budget and forwards it to the management through the principal for approval. The management allocates the funds under various heads such as upgradation of facilities, computers, maintenance, library resources, sports, placement, salary, extension activities, etc. based on the need. The management also allots the funds for training and development programmes of the teaching and non-teaching staff and students for skill development activities.

Utilization:

The Finance committee monitors and audits the budgets, utilization, accounts, expenses etc. They give recommendations for better handling of resources and effective mobilization of available funds. It ensures that the fund utilization is within the limit or allotted margin.

All the major financial transactions are analysed and verified under following sections:

- Equipment and Consumables
- Software and Internet charges
- Printing and Stationeries
- Furniture and Fixtures
- Repair and Maintenance
- Research and Development
- Training and Placement
- Library books and Journals

Financial Audit:

Internal Audit is being conducted on a continuous basis by the finance committee

1. Expenses

- a. Vouchers, supporting bills and invoices are verified.
- b. Approvals and authorization are verified with instructions.

c. Accountings of expenses according to the nature of the expenses are verified.

2. All the fees pay-in slips are vouched with the bank statements.

3. Surprise cash verification is conducted to verify the cash transactions.

4. Bank Reconciliation Statements (BRS) are verified on a weekly basis.

5. Statements of sundry creditors ageing are verified.

6. Payroll statements along with the attendance registers are verified on monthly basis.

7. Fees receivable statements are verified with the books of account.

External Audit is regularly conducted on an annual basis by the auditors of the Trust. The procedure is furnished below:

1. All the expenses vouchers and their supporting documents are verified.

2. BRS of financial year is verified to ensure the outstanding payables and receivables.

3. Fixed assets purchase invoices are verified and physical verification of statements and payments are verified with the payroll reports provided by the accounting department financial statements are audited accordingly.

4. Salary statements and payments are verified with the payroll reports provided by the accounting department.

5. Analytical procedures are followed to assess the overall correctness of the books of accounts.

6. Financial statements are audited accordingly.

File Description	Document
Upload Additional information	View Document
Provide 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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The institutional policy is inseparable to the administrative and academic quality assurance processes. In 2016, IQAC was established under the name Centre for Quality Assurance (CQA), and was subsequently renamed as IQAC. In order to raise awareness of quality assurance procedures and strategies among all parties, IQAC supports various events. The institute has a clearly defined policy for quality assurance, and it is upheld by the effective involvement of all parties involved. The IQAC recommends actions to be taken to improve the institution's quality and serves a crucial role in preserving and improving it.

In order to accomplish and maintain its goals, IQAC works diligently and consistently to research, evaluate, and improve each strategy, activity, process, and procedure across all institutional activity domains.

IQAC has contributed significantly in the following areas:

Value Added Courses

Our college is committed to meet the expectations of stakeholders across industry, society, and among students through a variety of institutionalized approaches aimed at improving quality in both administrative and academic domains. In addition to our comprehensive curriculum, we actively encourage students to enrol in value-added courses. These courses not only enhance students' motivation to explore new topics but also significantly develop their skill sets, providing a competitive edge in today's job market.

Implementation of an Effective Mandatory Induction Programme

IQAC monitors implementation of mandatory Induction Programme for first-year students that cultivates interdisciplinary understanding and enhances their ability to engage with diverse subjects, fostering confidence, knowledge, and decisive skills for personal and professional development from their freshman year. Industry experts deliver talks on technological trends, stimulating interest in current practices. English and Computer Proficiency enrich students' knowledge, preparing them comprehensively for future academic and career challenges.

Skill Development Programme

Our institution's Skill Development Programme focuses on equipping students with essential technical and soft skills for a successful career. Through interactive workshops, seminars, and industry collaborations, students gain practical experience and insights into current trends. Starting with an induction phase to break their barriers of communication skills followed by Budding Engineers' Technical Expo in their freshman year, Public speaking and presentation skills in the second year, Technical and aptitude development, mini projects, industry orientation in the third year and Placement orientation in the final year, the skill development spans across the duration of study. These initiatives help their academic journey, fostering a well grounded skill set that boosts employability and confidence. Our aim is to foster a culture of lifelong learning, empowering students to thrive in a dynamic global landscape.

Robust Assessment Mechanism

A robust assessment mechanism is essential for fair examinations. It involves meticulous planning, clear

guidelines for seating, invigilation, and coordination with faculty ensures logistical readiness and issue resolution. Transparent communication with students about schedules and results maintains fairness. Continuous feedback-driven evaluation enhances efficiency, upholding academic standards.

Institute Social responsibility

Institute Social responsibility is strengthened by initiatives like NSS and YRC, engaging students in community service and health-related projects that promote civic engagement, leadership, and empathy, thereby preparing them to contribute positively to society.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**
- 5.Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

A number of steps have been taken by Krishnasamy College of Engineering and Technology (KCET) in order to empower women and promote gender equality, the institution has taken number of initiatives.

Promoting Gender Equity:

KCET established a Woman Empowerment Cell to increase awareness of gender-related grievances among faculty and students. The cell has organized several seminars to increase community understanding of the significance of gender equality. The Cell addresses the challenges of the women and provides a platform for them to voice their concerns about sexual harassment, women's safety and security, etc. Women's empowerment is promoted through a variety of gender equity programmes. These events give confidence to express their freedom towards their rights. The Prevention of Sexual Harassment (POSH) initiative was created on our campus in accordance with AICTE guidelines to ensure the safety of women.

The college has implemented a number of safety and security measures to the women's safety while on campus. It has put in place CCTV cameras throughout the campus and offers round-the-clock monitoring. In addition, the college hosts regular events to increase awareness of sexual harassment and has set up a grievance redressal system for women to handle complaints regarding women's grievances.

Additionally, KCET also provides opportunities for women to excel in their chosen fields. The college has offered several scholarships which are just available to female students in order to uplift and inspire them. In addition, more than 50 percentage of women faculty have been employed by the organization to ensure gender equity at the teaching and non-teaching faculty members. Generally, the interview panel consists of at least one senior women faculty member. Several women faculty members are given headship in department level, various portfolios as well as in administrative level.

The girls have access to a separate women's hostel with a security system and are permitted to leave the hostel with proper request from their parents. This proper channel determines the comfortable security system of the hostel girl students even outside the campus. Every year, the institution's Women Empowerment Cell hosts a campus celebration of International Women's Day. The women empowerment cell organized one day excursion to reduce the staff depression. Our institution organized few awareness programmes on gender sensitization in view of sexual harassment of women at workplace.

Counselling Cell:

Parents and college administrators are extremely alarmed by the recent adult behavior of the students. The tutors concern will take notice of students who are either struggling academically or experiencing personal difficulties.

Separate Retiring Rooms:

Both boys and girls can use the well-furnished Retiring rooms at the college campus, when they are sick or just need some time to physical rest.

Conclusion:

Several steps have been taken by KCET to encourage diversity and gender equity on campus. To address concerns connected to gender equality, the institution developed a women's empowerment cell. KCET's efforts to commemorate significant occasions and advance gender parity are admirable and enhance the overall expansion and advancement of the community.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2**The Institution has facilities and initiatives for**

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

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

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

The mission of KCET is to provide an inclusive atmosphere that values diversity in terms of socio-economic status, community, language, geography and culture. The institution understands, how important, it is to establish the mission for safe campus that values social justice, equity and diversity. The college has launched a number of campaigns to educate staff and students about their rights, duties, and responsibilities as citizens, as well as their constitutional obligations. In addition, the college has been actively participating in variety of National and International Commemoration Days, Events, and Festivals, such as Pongal, Pooja Celebrations, Independence Day, Republic Day, etc.

Celebrating National and International Commemorative Days:

KCET observes a number of national and international days in an effort to raise awareness and foster social cohesion. On occasions such as National Library Day, World Environment Day, and National

Science Day, the college hosts events and activities.

Every year on August 15th, Independence Day is observed with great patriotism. The campus radio plays a variety of patriotic tunes that give off a strong sense of patriotism. The programme includes student performances of patriotic songs and talks honouring the valiant efforts of our freedom fighters.

KCET organize Republic Day Celebration for every year in the college where flag hoisting ceremonies have been conducted along with cultural programmes to celebrate the occasions. The students participate in several events like singing patriotic songs, delivering speeches to motivate and inspire the community.

Engineers Day is observed on September 15th in honour of Sir Visvesvaraya's Birth Anniversary. As a remarkable homage to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya, that day is regularly celebrated.

Celebration of Cultural and Communal Diversity:

KCET takes part in various kinds of cultural and community celebrations to promote harmony and understanding among the staff and students. Events and activities are planned by the college for the following celebrations such as Pongal and Pooja Celebrations. The organization invites staff members and students to take part in these festivities and discover India's rich cultural diversity.

National Service Scheme (NSS) Activities:

An active NSS unit at KCET plans a variety of events to educate students about their rights, duties, and responsibilities as citizens, as well as their obligations under the constitution. The NSS unit runs a number of initiatives, including Health Camps, Blood Drives, and Awareness Campaigns on issues like Hygiene, Literacy, and Environmental Protection. Additionally, the NSS unit aims many activities to promote unity and harmony among students from all backgrounds.

Sensitization of Employees and Students:

KCET regularly offers training and sensitization programmes to both employees and students, to raise knowledge of citizen’s rights, duties, and responsibilities regarding the principles, obligations, and duties outlined in the constitution. The college hosts seminars on subjects like Social Justice, Human Rights and Gender Awareness.

The organization has put in place a code of conduct that describes what is expected of both employees and students. The code of conduct places a strong emphasis on treating people from different backgrounds with respect, tolerance, and inclusivity.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	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 Practice 1: Robust continuous assessment - Progress through Process Control

Our institution has implemented a robust internal assessment framework to make it really continuous by addressing concerns associated to our students. This framework aims to comprehensively evaluate students' learning and progress in alignment with the educational objectives.

Objectives:

The approach encompasses several key objectives such as understanding of course content, identifying strengths and weaknesses, providing timely feedback, evaluating problem-solving abilities, maintaining accurate academic records, ensuring alignment with institutional goals and educational standards.

The Context:

It has been a challenge for many of the technical education institutions catering to the students from rurally backward region to surpass an overall academic pass percentage of 60. A meticulous planning with an understanding of students profile and performance, critical analysis, remedial measures within a stipulated period and sustainability are important in achieving Goal 60%+.

The Practice:

Planning and Scheduling: The academic schedule is prepared by calculating the total number of periods required for all academic activities including assessments, especially slip tests and preparatory sessions. This structured approach promotes consistency and enables continuous assessment of students' progress. Question papers are scrupulously crafted by the faculty and undergo rigorous scrutiny by the HODs to ensure quality.

Administration: Clear guidelines and instructions are provided to the students to maintain integrity and fairness throughout the assessment process. Slip tests are conducted regularly to foster discipline and reinforce learning concepts. Mind maps prepared are displayed that further aid students in comprehending complex topics, ensuring holistic learning with ease of understanding.

Execution: During assessments, invigilators oversee the environment to uphold adherence to guidelines. An Institute Representative ensures systematic conduct of assessment tests, emphasizing procedural fairness and norms. Immediate feedback from invigilators and surprise squad visits promptly addresses issues if any, enhancing the overall effectiveness of the process.

Evaluation and Feedback: Assessment papers are evaluated by the course handling faculty and scrutinized by the Chief Examiner to ensure consistency and accuracy in awarding marks. Constructive feedback is promptly provided to students, helping them in identifying areas for improvement. Progress

reports are dispatched to parents to inform about their ward's academic performance.

Review and Analysis: Post-assessment, through a comprehensive result analysis, courses that are critical in the overall result point of view are identified. These insights guide the implementation of targeted interventions such as remedial and other additional supportive measures.

Documentation and Continuous Improvement: Comprehensive documentation practices ensure record-keeping of test administration, question papers, answer scripts, and results. Question paper compliance is a document that showcases the correlation between internal assessments and end semester examinations. These documents serve as a valuable resource for quality assurance and future reference. Continuous improvement is ascertained, with ongoing feedback and subsequent adjustments in teaching methodologies.

Evidence of Success:

Assessments with proper feedback and corrective measures through systematic analysis are aligned with learning outcomes. Trends in end semester examination performance driven through internal assessment over the last few years, show sustained improvement in academic outcomes. Specifically, the results from odd semesters have shown an increase of 8 to 9%, while even semesters have improved by 7 to 8%. This cumulative improvement has contributed to an overall increase of about 25% in academic performances before and after the Covid' 19 pandemic.

Problems encountered and resources required: Lack of complete degree of autonomy in planning and scheduling of assessments being an affiliated institution, training and retention of faculty, attitude of millennium generation students are the challenges. Becoming an autonomous institution besides more vigorous in-campus training to the teachers and specialized counselling to the students may help in achieving the goal set through a better time management with stringent adherence to the Outcome Based Education.

Best Practice 2: Integrated Skill Development Model in Practice

Objectives:

- To provide quality education for the students in general, rural masses in particular
- To support their carrier and academic aspirations
- To effectively plan, implement skill development activities and to sustain with the participation of Industry.

The Context:

Our institution continues to empower students with practical knowledge, critical skills, and a well grounded awareness of both technical and soft skills. This approach prepares them for successful careers and equips them as competent professionals. Continuous adaptation to challenges ensures that graduates remain globally competitive.

The Practice:

Training Module Alignment:

Our training spans across all years of study. The training modules, Value Added Courses (VAC) are designed to match industry expectations, ensuring graduates are employable.

Freshman Year Initiatives:

An induction programme upon admission to instill confidence and remove inhibitions, setting a positive tone for their academic journey. Skill Development Activities: Focus on enhancing communication skills, language proficiency, and technical exposure through "Budding Engineers Technical Expo" and value elucidation programmes.

Second Year Focus:

Public Speaking and Presentation Skills: Students engage in learning public speaking and presentation skills, preparing them for inter-departmental, inter-collegiate, and national/international symposiums.

Technological Awareness: Through workshops, seminars and guest lectures, students gain exposure to recent trends.

Prefinal Year Emphasis:

Aptitude and Technical Skills: Students develop competency in aptitude, technical skills, and further hone soft skills through internships, in-plant training, industrial visits and miniprojects.

Final Year Preparation:

Interview Skills and Placement Training: Rigorous training prepares students for placements through sessions conducted by skill trainers, aligning with industry expectations.

Evidence of Success:

Integration of all the above, lead to improved confidence levels and enhanced employability of our students besides entrepreneurial interest. In spite of the recession, our students were better employable as over 70% of eligible students secured placements in reputed multinational companies, with a 50% increase in average salary in the last five years. The companies visiting the campus for recruitment has doubled in respect of our efforts. Naan Mudhalvan Scheme of Tamil Nadu has officially announced that our institution has secured 48th place among 315 self-financing colleges under Anna University based on placement record.

Problems encountered and resources required:

Lack of autonomy in refining curriculum and time limitations for accomodating all such activities. Maintaining and expanding partnerships with industries to provide diverse internship and more placement opportunities. More interest of students in software career rather than core engineering. Highly effective and continuous monitoring of skill training is needed. Becoming an autonomous institution to introduce more lab oriented courses and to seek industrial accreditations besides strenthening our association with MSEs. Motivation programmes on applications of AI, ML, IoT in core engineering and opportunity mapping besides strength profiling of the candidates.

File Description	Document
Best practices as hosted on the Institutional website	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:

One of distinctive feature of our institution is its focus on socialistic and holistic development, reflecting its commitment to the society.

Institutional Social Responsibility (ISR)

KCET encompasses the proactive role that educational institutions play in contributing to the betterment of society beyond their core educational mission. It involves initiatives and practices that go beyond mere compliance with regulations, aiming instead to create a positive impact on the community and environment while nurturing ethical values and social consciousness among its stakeholders. This shows our distinctiveness.

Community Engagement

Our institution's ISR initiatives lie a commitment to educational excellence intertwined with active community engagement. Our institution not only strives to provide quality education but also integrates community service into its core mission. This is evident in various programs and activities that are conducted beyond classroom and real-world application. Such socialistic approaches turn a student into a responsible citizen.

Empowering School Students through Careers Guidance

Our institution organizes special guidance programs in schools across the region on "Career Planning and Scholarships" aimed at inspiring students towards meaningful career paths, particularly in engineering and related fields. Additionally, scholarship examinations are conducted to encourage students to pursue higher education, especially for economically downtrodden and rural background students, thereby fostering talent development and educational equity within our community. Supporting initiatives under certain scheme for school students demonstrates our institution's dedication to educational enrichment and community engagement with the participation of the government.

Go Green - From Seeds to Sustainability

Our institution places a strong emphasis on environmental stewardship through various sustainability

initiatives. Former President of India Dr. APJ Abdul Kalam planted 100000th sapling in our campus and an appreciation was received for the green initiatives. Our NSS unit continues to conduct tree plantation programs regularly to raise environmental awareness, engage the community, and leave a positive ecological legacy for future generations. These efforts underscore our commitment to sustainability and responsible environmental practices, reflecting our dedication to preserving natural resources and promoting a greener, healthier planet.

Community Health Initiatives

Demonstrating our commitment to social responsibility and community welfare, our institution regularly organizes blood donation drives and medical camps through NSS, YRC. Our NSS team was recognized by the organizers for effective management of blood donation activities. These initiatives not only promote health awareness but also provide valuable healthcare services to the society. By actively engaging students and staff in these activities, we instil a sense of ethical responsibility and compassion towards others, aligning with our mission to educate and empower individuals not only academically but also socially.

Navigating a Pandemic Crisis

During the COVID-19 pandemic, our institution volunteered to Government of Tamil Nadu to serve as an isolation ward. This decision underscored our institution's feasible infrastructure and leadership in times of crisis. By providing essential healthcare support and resources, we demonstrated our readiness to contribute to public health efforts and mitigate the impact of the pandemic on our community. This initiative highlighted our role as a responsible institution dedicated to serving the needs of society during challenging times.

Our institution voluntarily hosted the vaccination camps organized by the Government across several phases. These camps were conducted in collaboration with nearby primary health centres. This initiative aimed to contribute to public health by ensuring widespread vaccination coverage and promoting community well-being.

Utilization of Information Technology (IT)

A cornerstone of our institutional uniqueness is the strategic use of Information Technology (IT) facilities to host a wide range of academic assessments, including State and Central Government examinations such as UGC-NET, NTA - JEE, PG-NEET, JIPMER GATE and TNPSC by providing a conducive environment for these competitive assessments for regional benefits. This exposure not only enhances their preparedness and confidence but also familiarizes them with the rigorous examination environment critical for their future career aspirations.

Implementing Public Sector Initiatives

By providing venues for various activities, we empower young minds to explore leadership and civic responsibilities early on, fostering a sense of initiative and social responsibility among the next generation. Additionally, offering our institution's infrastructure as a venue for government programs aimed at benefiting the community further strengthens our ties with governmental agencies, NGOs, and local communities. These programs include health camps, awareness sessions, and skill development workshops, providing valuable learning opportunities while contributing to societal welfare and

promoting good governance practices. The participation of our volunteers in electoral services not only supports democratic processes but also enhances our institution's reputation as a responsible member of the community.

Through Centre for Innovations and Entrepreneurship (CIE) we have trained nearly 200 external participants and turned them to entrepreneurs by using our resources under schemes such as “**New Entrepreneur cum Enterprise Development Scheme (NEEDS), Entrepreneurship Skill Development Programme (ESDP)** by Entrepreneurship Development Institute, Tamil Nadu and MSME-Development Institute, Chennai.

Holistic Development through Community Service

Our institution's National Service Scheme (NSS) unit plays a pivotal role in promoting holistic development among students through various community service initiatives. Special camps organized in nearby villages serve as platforms for students to devote themselves in community services. These camps encompass a wide range of activities including workshops, health camps, and awareness programs. Both the NSS and YRC team received appreciation certificates for their remarkable services. Such activities not only benefit the local community by addressing pertinent issues but also cultivate essential skills such as organizational management, critical thinking, creativity, empathy, and leadership among students.

Emphasizing Ethical Behaviour and Societal Contributions

In conclusion, our institution's uniqueness lies in its holistic approach to ISR, encompassing educational excellence, community engagement, ethical governance, sustainability practices, diversity and inclusion efforts, and fostering a culture of social responsibility among students, faculty, and staff. Through these initiatives, we not only prepare students for successful careers but also empower them to become compassionate, socially conscious leaders who contribute positively to society. By aligning our institutional values with societal needs and environmental stewardship, we strive to make a lasting impact on our community and inspire meaningful change in the world. Our institution's ISR efforts reflect a broader understanding of its role in society, emphasizing ethical behaviour, and contributing to the well-being of communities and the environment. Through these efforts, we continue to uphold our distinctiveness as an institution committed to excellence, integrity, and meaningful societal contributions.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

Krishnasamy College of Engineering and Technology (KCET) is blessed to have been visited by eminent personalities. Former President of India Dr. APJ. Abdul Kalam along with Padmasri Vivek, actor and social activist visited our campus in 2012 for an event entitled "Green Kalam" attended by over 10,000 people and appreciated our institution for being a part of the moment and actively participating and promoting the green initiatives, especially planting and maintaining of tree saplings in and around the region. In the memory of the same we continue to organise tree plantation programmes every year.

The Institute strives to support and help the neighbouring villages in addressing some of their needs through NSS camps and social activities as an institute social responsibility. Students have been actively participating in various social reformation activities such as Swachh Bharat Abhiyan, Fit India, Drug awareness rallies, Road safety, food safety, women safety programmes etc. Students are constantly engaged in social service so as to become more responsible citizens.

KCET has arranged many special camps. Especially during Covid'19 pandemic our hostels premises was used as an isolation centre. Further, we joined hands with district public health administration in organising vaccination camps. Our staff and student volunteers support district administration in electoral processes. Our institution is represented in district single window consultative committee for promoting entrepreneurship. Over 300 first generation entrepreneurs have been trained in the campus by collaborating with government agencies under various schemes.

We undertake and help the nearby school children for pursuing their dreams through studies through several forums either by inviting to the campus or by sending our team of experts to their premises. We have conducted several open houses and exhibitions for the public in general and school children in particular. We are reaching out to public interface in promoting energy literacy and consumer awareness.

We support district administration and various other bodies in facilitating the competitive assessments, examinations digital and written as well as training of human resources through our infrastructure. Prestigious assessments like JEE, GATE, NEET, ICWA, TNPSC, etc. are regularly conducted in our premises.

Concluding Remarks :

Krishnasamy College of Engineering and Technology (KCET) with 23 years of remarkable journey since its establishment in the year 2001 with the motto of "EDUCATION, DISCIPLINE and EXALTATION" embarking educational excellence through its commitment in providing high quality technical education to the students in general and especially to those from rural background that really helps improving their quality of life and also aspires to empower the youth morally and ethically to serve society selflessly.

The institution's elite infrastructure is pivotal to cater the needs of students based on Anna university curriculum besides equipping them with more practical knowledge to face the competitive world. A holistic development of the student community is ensured by focusing on curricular, co-curricular as well as extracurricular activities with the help of highly committed and dedicated faculty members and supporting staff. The college is proud of many of its alumnae who have made a remarkable achievement in various fields like

industry, academics, entrepreneurship, public services, media, politics, etc.

The institution has very much earned a reputation among the regional people and consistent efforts are taken to maintain the credibility besides improving our capability to attract students across the state by the successful implementation of NEP 2020 for skill orientation by becoming an autonomous institution. We are also focused on strengthening our network to establish international collaborations and keen to become an institution of national repute.

We grow as an institution with an emphasis on sustained development and commitment for social upliftment through ethical practices. Besides generating employable professional graduates we also focus on entrepreneurship development. We work closely with the District Industries Centre, Micro, Small Enterprises association, MSME development institute, Entrepreneurship Development Institute, Tamil Nadu Industries Investment Corporation, Lead bank, etc. for the same.

We enthusiastically participate in clean, green India by starting from our cleaner, greener campus. As an institution we are promoting humanity, rural empowerment and self reliance for a better tomorrow. We believe in constant learning and progress through process control.