



YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution		TKR College of Engineering & Technology
• Name of the Head of the institution		Dr. D.V. Ravi Shankar
• Designation		Professor & Principal
• Does the institution function from its own campus?		Yes
• Phone No. of the Principal		9949665436
• Alternate phone No.		9666573666
• Mobile No. (Principal)		9666573666
• Registered e-mail ID (Principal)		info@tkrcet.ac.in
• Address		Survey No -8/A Medbowli, Meerpet, Telangana 500097
• City/Town		Hyderabad
• State/UT		Telangana
• Pin Code		500097
2.Institutional status		
• Autonomous Status (Provide the date of conferment of Autonomy)		08/06/2017
• Type of Institution		Co-education
• Location		Urban

• Financial Status	Self-financing				
• Name of the IQAC Co-ordinator/Director	Dr. A. Suresh Rao				
• Phone No.	8498085216				
• Mobile No:	8498085216				
• IQAC e-mail ID	deanacademics@tkrcet.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year))	https://tkrcet.ac.in/wp-content/uploads/2023/01/AQAR-Report-2020-2021.pdf				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://tkrcet.ac.in/autonomous/academic-calender/				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.17	2017	12/09/2017	09/11/2022
6.Date of Establishment of IQAC			12/10/2017		
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
Nil	Nil	Nil	Nil	Nil	
8.Provide details regarding the composition of the IQAC:					
• Upload the latest notification regarding the composition of the IQAC by the HEI	View File				
9.No. of IQAC meetings held during the year			2		
• Were the minutes of IQAC meeting(s) and	Yes				

compliance to the decisions taken uploaded on the institutional website?		
If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Did IQAC receive funding from any funding agency to support its activities during the year?	No	
If yes, mention the amount		
11.Significant contributions made by IQAC during the current year (maximum five bullets)		
Improvement in effective utilization of ICT during the lecture sessions.		
Continuous evaluation of Teaching and Learning Process lead to significant improvement in results.		
Emphasis has been laid on course files documentation		
IQAC Cell in coordination with EDC Cell has mentored three Start-ups.		
Emphasis has been laid on Lab Courses and Preparation of High Quality Lab Manuals.		
12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:		

Plan of Action	Achievements/Outcomes
To Organize at least One FDP Program on emerging technologies per Semester	TKRCET has conducted 3 workshops of ICT Learning, Pedagogy Teaching, and Techniques for writing high quality research papers
Encouragement of In-house Projects for VIII Semester Students.	As a part of QIP, Students of all disciplines are encouraged to carry out their mini projects and major projects within the college by utilizing R & D Resources. With this initiate 72%, VIII Semester Students have utilized R & D Resources to accomplish their projects.
Mentor Entrepreneurs	A Committee has been formed to look after the EDC activities. Committee in collaboration with various Govt. /Private Organizations has conducted hands on training sessions and workshops to inculcate the entrepreneurship spirit among the students.
13.Was the AQAR placed before the statutory body?	Yes
Name of the statutory body	
Name of the statutory body	Date of meeting(s)
BOG	13/03/2021
14.Was the institutional data submitted to AISHE ?	Yes
Year	

Year	Date of Submission
2021	31/12/2021
15.Multidisciplinary / interdisciplinary	
The design of curriculum was emphasized on providing scope for students to learn the concepts of other engineering disciplines under open elective category.	
16.Academic bank of credits (ABC):	
Although the Institution is under Autonomous Mode, the degree is offered by the affiliating university (JNTUH). therefore the approach of Academic bank of Credits as per the NEP can be implemented after the directions from the affiliating University.	
17.Skill development:	
The institute as a part of curriculum enrichment the departments have undergone respective skill based activities for their students. the outcome of this activity supported the students to fill the gap to a an extent during their placement activity.	
18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)	
The students are engaged in adapting their culture by the event of traditional day celebrated every time as a part of annual day celebrations. Also, the students are directed to take any online course (12 weeks) as a part of mandatory course. the students are offered "the constitution of India" course under mandatory courses, to bring awareness of indian knowledge system.	
19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):	
In the Institute four undergraduate programmes Electrical and Electronics Engineering, Mechanical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, have been accredited under tier II of outcome based education for a period three years from 2015-2018. Subsequent extension was accorded for all the four programmes for another four years from 2018-2022.	
20.Distance education/online education:	
No programmes are offered under distance/online mode	
Extended Profile	
1.Programme	

1.1	11
Number of programmes offered during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
2.Student	
2.1	4173
Total number of students during the year:	
File Description	Documents
Institutional data in Prescribed format	View File
2.2	1023
Number of outgoing / final year students during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3	4462
Number of students who appeared for the examinations conducted by the institution during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1	546
Number of courses in all programmes during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2	288
Number of full-time teachers during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File
3.3 Number of sanctioned posts for the year:	288
4. Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	2265
4.2 Total number of Classrooms and Seminar halls	71
4.3 Total number of computers on campus for academic purposes	1100
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	8, 96, 71, 545
Part B	
CURRICULAR ASPECTS	
1.1 - Curriculum Design and Development	
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.	
The institute imparts novel academic practices an usher to good governance. The revision of curriculum is one of the key objectives of these academic practices. The revision of curriculum is emphasized to impart recent technologies that address the requirements of industry and society. Influential parameters for curriculum design. The curriculum is designed to orient students into research and design and to enhance their entrepreneurial and employability skills. The influential parameters include (i) the curriculum being	

designed following the guidelines enlisted in the Model Curriculum of AICTE, (ii) programme specific outcomes of professional bodies, and faculty expertise. (iii) syllabus covered for competitive exams like GATE, IES etc.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://naac.tkrcet.com/21-22/criterion-1-1/

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

2

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

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

226

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

1.2 - Academic Flexibility

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

2

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

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

140

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

1.3 - Curriculum Enrichment

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

In order to integrate the cross cutting issues relevant to gender, environment and sustainability, human values and professional ethics, the College has imbibed different types of activities right from the first academic year in the curriculum. Some enhance professional competencies while others aim to inculcate general competencies like social values, human values, environment sensitivity etc., thereby leading to the holistic development of students.

The courses on Ethics, Human Values, Human Resources & Organizational Behaviour and Community Outreach through NSS and NCC, Environmental Studies are embedded in the curriculum of all programmes.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

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

79

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

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

2454

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

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

1027

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained

A. All 4 of the above

**from 1) Students 2) Teachers 3) Employers
and 4) Alumni**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://tkrcet.ac.in/feedbak/
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

B. Feedback collected, analysed and action taken

File Description	Documents
Provide URL for stakeholders' feedback report	https://tkrcet.ac.in/feedbak/
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

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

1026

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

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

791

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

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The Methodology adopted by the institution has been planned strategically and periodically revised to address the issues of diversity in students' learning levels. To begin with the students' learning abilities are obtained from their performance in the activities planned during the induction-training program conducted immediately after the admission.

- Special remedial classes are arranged for the slow learners apart from the regular class schedule on specific days for each course and individual attention is paid for improving the students learning competency, problem solving and presentation skills.
- Simultaneously, the needs of the average and advanced learners are taken care of by the concerned faculty through assignments, seminars etc. The advanced learners will derive satisfaction and get motivated further learning expansively while the slow and average learners get their doubts clarified with the lucid academic discussions.
- Respective mentors and class in-charges further assist slow learners through individualized counselling sessions. Most of the students' problems are resolved through these efforts and if necessary, parents are called in for to assist their ward.

Slow learners are given special attention to improve their performance through one or more of these methods:

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-2-2/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2022	4173	288

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Teaching-learning methods adopted by the faculty members include Lecture Method, Interactive Method, Project-based Learning, Computer-assisted Learning, Experiential Learning, etc. The Teaching-learning activities are made effective through illustration and special lectures. Lessons are taught through PowerPoint presentations to make learning interesting besides oral presenting methods. Lecture method: This conventional method is commonly adopted by all teachers. This method facilitates the teacher to interpret, explain and revise the content of a text-only for better understanding of the subject by the learners. Interactive method: The faculty members make learning interactive with students by motivating student participation in group discussion, role-play, subject quiz, news analysis, discussion, and questions and answers on current affairs. Departments provide an effective platform for students to develop the latest skills, knowledge, attitude, values to shape their behaviour in the correct manner. The department conducts innovative programs which stimulate the creative ability of students and provide them a platform to nurture their problem-solving skills and ensure participative learning. The department Implements student-centric methods of enhancing the lifelong learning skills of students.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://naac.tkrcet.com/21-22/criterion-2-3/

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

Today, it is essential for the students to learn and master the latest technologies in order to be

corporate ready.

The following tools are used by the Institute ICT Tools:

1. Projectors- 54 projectors are available in different classrooms/labs
2. Desktop and Laptops-
3. Printers-.
4. Photocopier machines -
5. Scanners-.
6. Seminar Rooms- 7seminar halls are equipped with all digital facilities.
7. Auditorium- It is digitally equipped with mike, projector, cameras and computer system.

Use of ICT By Faculty

- PowerPoint presentations- Faculties are encouraged to use power-point presentations in

their teaching by using LCD's and projectors. They are also equipped by digital library,

online search engines and websites to prepare effective presentations.

- Industry Connect- Seminar and Conference room are digitally equipped where guest

lectures, expert talks and various competitions are regularly organized for students.

- Online quiz- Faculties prepare online quiz for students after the completion of each unit with

the help of GOOGLE FORMS.

- Video lecture- Recording of video lectures is made available to students for long term

learning and future referencing.

- **Workshops- Teachers use various ICT tools for conducting workshops on latest trends**

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://tkrcet.ac.in/e-resources/
Upload any additional information	View File

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

2.3.3.1 - Number of mentors

288

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

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

2.3.4 Preparation and adherence to Academic Calendar and Teaching plans by the

institution

Response:-

Preparation and Adherence of Academic Calendar: The institution prepares the academic

calendar every year in advance. The coverage of academic calendar covers the list of

examination dates, seminars, conferences, guest lectures, workshops and industrial visits

holidays, vacation dates, festivals, etc. Academic calendar provides

the total effective

working days available in a given semester. Then the director and senior colleagues prepare

the time table by correlating the working days available and coverage of curriculum of the

subjects. Thus the academic calendar monitors the effective delivery of the program with

academic and business inputs.

Preparation and Adherence of Teaching Plan: The concern faculties prepare teaching plan

for their respective subjects. The hours are distributed among class room teaching, case studies, workshops and lab session as per the subject requirements. These plans are made in advance and serves as guide for conducting sessions.

The Dean Academics and HODs check the progress of each course and ensures timely and effective

completion of course in the specified time frame with perfect blend of practical and theoretical inputs.

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

2.4 - Teacher Profile and Quality

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

288

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

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year**31**

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

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)**1637**

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

2.5 - Evaluation Process and Reforms**2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year****68**

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

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year**59**

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

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

The college keeps its examination system open for modifications and thus strengthens it from time to time, ensuring the system fool proof and address the grievances of students, if any. The institutional reforms in all the activities of the examination system are kept at par with the reforms pushed by the AICTE for various engineering disciplines. The drivers for reforms in examination system of Indian engineering education taken up by the premier technical institutions have been incorporated into our examination system and they include OBE- frame work for assessment process, evaluation of higher order abilities and professional skills in different forms like MOOCs, internship experience and project works, Bloom's taxonomy for assessment design etc.

The following significant reforms were effected in the Examination system.

- Credit system was introduced for the benefit of the students.
- Quizzes / Surprise Test(s) /Project works and assignments are made part of evaluation.
- Tools of information technology are utilized for most of the activities associated with the conduct of examinations, evaluation and declaration of results.
- Continuous Internal Assessment (CIA) includes Mid examinations twice in a semester for each course, periodical assignments/tests/quizzes etc. to keep the students meaningfully engaged with the subject content throughout the semester.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkrcet.ac.in/autonomous/notifications/

2.6 - Student Performance and Learning Outcomes

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

While addressing the students, the HODs create awareness on POs, PSOs and COs. The faculty members, class teachers, mentors, course coordinators, program/ISO coordinators also inform the students and create awareness and emphasize the need to attain the outcomes.

Program specific outcomes (PSOs) are the specific skill requirements and accomplishments to be fulfilled by the students at micro level and by the end of the program. The programme co-ordinators prepare the PSOs, usually two to four in number, in consultation with course coordinators. The BOS, including Head of the Department and subject experts, of the individual departments will discuss the same and approve it after endorsement by the Principal.

Program Outcomes (POs) are broad statements that describe the professional accomplishments which the program aims at, and these are to be attained by the students by the time they complete the program. POs incorporate many areas of inter-related knowledge, skills and personality traits that are to be acquired by the students during their graduation.

Course outcomes (COs) are direct statements that describe the essential and enduring disciplinary knowledge, abilities that students should possess and the depth of learning that is expected upon completion of a course.

The POs/PSOs of the programme are published through electronic media at individual Department site located on the college website <https://tkrcet.ac.in/autonomous/syllabus>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	http://tkrcet.ac.in/wp-content/uploads/2023/01/COPO_MERGED_2.6.1.pdf

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

Each course has a defined set of course outcomes and corresponding evaluation criteria. The course outcomes are mapped to the program outcomes which are used to provide the quantitative measurement of how well the program outcomes are achieved. The performance of the students in the examinations during the semester in each course is used to compute the level of attainment of the POs and PSOs through the mapping of questions to COs and COs to POs and PSOs. CO-PO & PSO mapping for all the courses in the program is prepared by the program coordinator in consultation with other faculty members.

CO Attainment

Assessment methods include direct and indirect methods. The process of course outcome assessment by direct method is based on mid examinations, semester end examination and quiz. Each question in mid/semester end/assignment/quiz is tagged to the corresponding CO and the overall attainment of that CO is based on average mark set as target for final attainment.

Mid Examinations are conducted twice a semester and each of them covers the evaluation of all the relevant COs attainment.

Semester End Examination is descriptive, and a metric for assessing whether all the COs are attained.

The indirect assessment is done through the course end survey.

Rubrics are formulated for the assessment of Laboratory, Mini Project, Major Project, Seminar and Internship courses.

and conducive environment to promote research activity in the campus. The institution has high speed internet facility. The entire campus has a 24x7 Wi-Fi facility. Every department is equipped with necessary software, computers and LCD facility for carrying out research activities. The institution provides conference and seminar hall with LCD projector for the smooth conduct of seminar, colloquium, viva-voce examination, etc. The departments have their own libraries equipped with books. Every year the library is enhanced. The institution provides financial assistance to the faculty for becoming members of various professional bodies and for attending workshops and conferences.

Research Promotion Policies:

The Institution provides seed money to the staff based on the recommendations by the management. Plagiarism checking software Drillbit is available in the. To encourage the faculty and students, the institution provides cash incentives based on the publication of research articles in UGC - CARE refereed journals with high impact factor. All the faculties are encouraged to apply for research funding project from various funding agencies such as UGC, CSIR, DST, ISRO, DRDO, DAE, ICSSR, etc. The institution exchanges the research expertise with other state, national and international institutions by signing MoUs. The Institution also organizes periodical seminars, workshops and conferences to promote research culture.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://tkrcet.ac.in/wp-content/uploads/2023/01/Student-Satisfaction-Survey-21-22.pdf
Any additional information	View File

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

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

3.5

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

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

6

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

3.2 - Resource Mobilization for Research

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

126.214

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

2

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

6

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

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

2

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.serbonline.in/SERB/
Any additional information	View File

3.3 - Innovation Ecosystem

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

The institute provides conducive environment for research-and-technology-driven innovations.

The five key constituents of the ecosystem for innovations are

- **Technology**

- **Research**
- **Innovation**
- **Industry**
- Each one of the above acts as a feeder to the next and creates a ripple effect on building innovative products.

Activities Envisaged

1. To provide common facilities to incubate viz. office support, equipment support and technology support.
1. To give Training, counsel, guide and mentor for setting up of the enterprise
1. To support and promote rural entrepreneurship in the region through training, demonstration and dissemination of technologies and opportunities to the grass root people.
1. To assist for setting up of technology exhibition, awareness camps and product development plans.
1. To provide support in documentation, publication and patenting of innovations.
1. To facilitate and provide the tools for technology development and implementation in the labs.
1. Incubation centre conducts entrepreneurship programs such as workshops, Seminars on entrepreneurship development.
1. To provide training by experts for marketing the products

developed.

1. To provide information about the financial Institutions for establishment and running of the industry.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkrcet.ac.in/incubation-center/msme/

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

19

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

3.4 - Research Publications and Awards

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

B. Any 3 of the above

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

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

3.4.2.1 - Number of PhD students registered during the year**1**

File Description	Documents
URL to the research page on HEI website	https://tkrcet.ac.in/research/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year**96**

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

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year**11**

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed**3.4.5.1 - Total number of Citations in Scopus during the year****34**

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

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

3.4.6.1 - h-index of Scopus during the year

190

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

3.5 - Consultancy

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

0

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

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

22226789

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

3.6 - Extension Activities

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

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

The college organizes a number of extension activities to promote institute-neighborhood community to sensitize the students towards community needs. The students of our college actively participate in social service activities leading to their overall development. The college runs effectively National Service Scheme and National Cadet Corps Units. Through these units, the college undertakes various extension activities in the neighbourhood community.

NSS organizes blood donation camps, yoga day, Environmental awareness, Women empowerment, National Integrity, Health check up camp, etc. on a regular basis

The NCC unit of the college aims at developing qualities of leadership, patriotism, maintaining discipline, character building, spirit of adventure and the ideal of self service.

The NCC unit of the college organizes various extension activities as tree plantation, Road safety awareness, Save fuel save country programme, Swachhta Abhiyan ,National equality awareness.

Other than NSS and NCC units, the various departments of the college is conscious about its responsibilities for shaping students into

responsible citizens of the country by making students aware of social issues through various programmes like Environmental Awareness, Personal Health and Hygiene, Diet awareness, Road Safety, Tree Plantation, Soil and Water Testing, Plastic eradication,

All these mentioned activities have positive impact on the students and it developed student community relationship, leadership skill and self confidence of students. It also helped in cultivating hidden personality of students and created awareness among students.

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

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

17

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

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

24

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

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

3940

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

3.7 - Collaboration

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

88

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

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

19

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The college has adequate infrastructure & facilities adhering to the norms laid by the statutory body like AICTE, JNTUH. The college building is demarcated with south block, central block & north block nomenclatures for ease of access. There are totally 71 classrooms. The individual departments have model classrooms.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-4-1/

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

TKR College of Engineering and Technology - a modern temple of learning, an off shoot of the TKR Educational Society was established in the year 2002 in a sprawling, lush green 20 acre campus at Meerpet, Hyderabad. The college provides a serene and tranquil environment to the students, boosting their mental potential and preparing them in all aspects to face the cut- throat global competition with a smile on the face and emerge victorious. The campus has a sprawling of lush green play ground of 5 acres with fled lights for cricket, football and other outdoor sports. An indoor badminton court, a modern basketball court and separate game rooms have been allotted for indoor games like table tennis, caroms and chess.

We have a Yoga Class room where students and faculty members do meditate and even practice yoga. College teams are formed to take part in state level and University level competitions and other intercollegiate competitions. Sports event competitions are conducted in the interdepartmental level in an academic year and the winners are awarded and rewarded accordingly..

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-4-1/

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

71

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

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

2, 22, 26, 789

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

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

TKRCET Library is well established and fully automated and has a rich collection of 91,932 volumes with 10,193 titles that cater to the need of Engineering & Technology, Management and research scholars.

The total built up area is 1510 sqmtrs. It is a duplex model with a seating capacity for 300 members

The library provides e-learning programs like IEEE, N-LIST, NDL, SWAYAM MOOC's..

The library is a key learning center of the college and plays a vital role in enhancing the teaching, learning, research, ambience and development of the college.

Library Automation (ILMS) :

The college Library & Information Centre is enabled with NEW GENLIB (New Generation Software for Library & Information Networking) Library Management Software with License (LMS)

The Central Library has taken the NGL 2.1 version software in 2008. It was upgraded twice, once in 2010 from NGL 2.1 to NGL 2.4 Version 2014. The next time it was upgraded in 2021 from NGL 2.4 to NGL 3.2.

New Gen lib Software was designed and developed by Veerus IT solutions. The College Libraries are use this software which is user friendly and works under the client server environment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkr cet.com/21-22/wp-content/uploads/2023/01/Lib.-Photos.docx

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

B. Any 3 of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

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

1947672

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

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

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

120

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

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

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

Recognizing the importance of technology in education, the institute has implemented latest state of the art IT infrastructure. TKRCET uses IT to provide a competitive advantage in its core areas of education and research. The institute aims at providing 99.9 per cent uptime including ensuring server uptime, data recovery and backup, facilitating storage management, hardware, network operations, streamlining operations and simplifying end-user support. The institute is being able to achieve this by deploying failover equipment in all possible places. All IT infrastructure in the campus is also provided power through UPS.

The Institute has a robust and vibrant IT policy. The policy aims at providing uninterrupted services to all stakeholders viz. faculty, officers, staff and students. The Institute strives to provide 24x7 services. During the lockdown due to Covid pandemic, classes were held on-line for students across all programmes. TKRCET IT

infrastructure is able to conduct hassle-free classes during this period.

IT network of the institute is the corner stone of all activities concerning the Institute. The budget allocation for IT is in line with the existing requirement and foreseeing the future ones. This budget is judiciously used to upgrade the existing set-up and replace the worn-out and outdated equipment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/wp/criteria-iv/criterion-4-3/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4165	1100

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 250 Mbps

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

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

D. Any one of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-4-3/
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

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

2, 22, 26, 789

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

The College has a well-defined policy and system in place for the maintenance and utilization of all its physical and academic facilities.

Classroom management:

Classroom being the most primary and important work space. It is followed keeping in mind the modern teaching learning environment. The classrooms are well equipped with all modern technology for better and effective teaching. CCTVs installed in each classroom to make sure of the safety and the security of all students, teachers and equipment.

Laboratory

Locations of laboratory eyewash stations, and fire extinguishers help to assure protective measures to minimize the causalities.

Library

For overall smooth functioning of the library, it is divided into following five main sections and each section has its unique identity and with defined standard procedures the library works effectively and serves its patrons for information requirements.

1. Acquisition/ Processing Section
2. Circulation Section
3. Serial Section
4. Reference Section
5. ICT and Digital Section

Sports

Sports committee looks after maintaining the sports ground and sports equipment. Committee organizes various indoor and outdoor sports competitions for students at intra and intercollegiate level.

Computers

Maintenance of computers (Hardware and Software), updating software related to administrative and overall maintenance of campus infrastructure. Printers, software.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-4-4/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

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

2118

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

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

0

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

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

A. All of the above

File Description	Documents
Link to Institutional website	https://naac.tkrcet.com/21-22/criterion-5-1/
Details of capability development and schemes	View File
Any additional information	No File Uploaded

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

1050

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

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

A. All of the above

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

5.2 - Student Progression

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

340

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

65

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

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

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

59

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

5.3 - Student Participation and Activities

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

9

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

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

The Institute has a student council constituted with academically strong students as its body. It operates with a sense of responsibility in dealing with the student-concerned activities. The Institute also encourages participation of student representatives in various decisions making, academic and administrative committees,

this enable them in acquiring better academic environment. Student opinions and suggestions are considered to take measures in view of students' perception. Institute puts efforts for the all-round development of a student. They take part in various professional society chapters like IEEE, ISTE, and CSI. In addition, student members are involved in several Institute and Department level committees with active participation. Internal Quality Assurance Cell (IQAC): Student representatives are nominated for this cell, who participate in the decisions regarding the quality initiatives of the institute. (Web site) Lady Advisory Committee: The girl students are part of the committee to address issues on women welfare. Student Amenities Committee: student representatives along with the other nominated faculty members monitor the quality and hygiene of the canteen. They visit frequently and collect feedback from peers and continuously monitor the quality and quantity of the food served. Hostel Committee: They play major role regarding food quality, hygiene and other general facilities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-5-3/

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

9

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

5.4 - Alumni Engagement

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

The Institute has a registered Alumni Association for building strong bond between alumni and present students. The alumni give support to the students through interaction, financial funding, guidance and placement. The Alumni Association of the Institute is called as TKRCETAA i.e. TKR College of Engineering and Technology

Alumni Association. The mission of the Alumni Association is to foster a mutually beneficial relationship between the Institute and its alumni. Alumni meet is arranged once in every year. Objectives of the Alumni association: To encourage and promote close relations between the Institution and its alumni and among the alumni themselves. ? To promote and encourage friendly relations between all members of the alumni body, an interest in the affairs and well-being of the Institution. ? To provide and disseminate information regarding their Alma Matter, its graduates, Faculties and students, to the alumni. ? To initiate and develop programs for the benefit of the alumni. ? To assist and supporting the efforts of the Institution in obtaining funds for development. ? To serve as a forum through which alumni may support and advance the pursuit of academic excellence at the Institution

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://naac.tkrcet.com/21-22/criterion-5-4/

5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The college follows its vision and mission to serve better for students. The governance of the college matches vision and the mission of the college. Our vision and the mission are as follows:

Institution Vision The Institution endeavours towards imparting quality education with ethical values and strives to make students technically competent to reach heights and make our nation self-reliant and globally recognized
Institution Mission The Institution is committed and dedicated to mould the students into quality engineers and technologists with aplomb by providing world-class scientific and technical education through:

- Ensuring excellent branch wise infrastructural facilities with eminent and qualified faculty
- Making the institute a research/resource centre to enhance scope for consultancy and R&D

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://tkrcet.ac.in/vision-mission/

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

VISION:

The Institution endeavours towards imparting quality education with ethical values and strives to make students technically competent to reach heights and make our nation self-reliant and globally recognized.

MISSION:

The Institution is committed and dedicated to mould the students into quality Engineers and technologists with aplomb by providing world-class scientific and technical education through:

Ensuring excellent branch wise Infrastructural facilities, with eminent and qualified faculty.

Making the Institute a research/resource center to enhance scope for consultancy, Research & Development.

QUALITY POLICY:

The Institute encourages continuous improvement and innovation at various levels for developing the institute into a center of excellence, thus satisfying the aspiration of all stakeholders.

POLICY STATEMENT:

We are committed towards developing and advancing the college as an institution of higher learning by offering quality education through excellent infrastructure, quality teaching learning process and congenial

ambience. The innate talents of students are nurtured through overall development by providing a number of curricular, co-curricular and extra-curricular activities. We are also committed to implementing effective and transparent appraisal system. A good exposure to the students will be offered through enhanced industry-institution interaction, MOUs, expert lecturers, entrepreneurship, research and consultancy. The college provides conducive work environment to the faculty and staff by offering best facilities and salaries as per the UGC guidelines for knowledge update, qualification improvement, etc.

GOVERNANCE OF THE COLLEGE

Statutory bodies

The following committees ensure proper governance at various levels including academic, financial and general administrative affairs. The following are the statutory bodies constituted as per the guidelines of UGC:

1. Board of Governors
2. Academic Council
3. Board of Studies
4. Finance Committee

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	https://tkrcet.ac.in/academics/bog/

6.2 - Strategy Development and Deployment

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

The values and core principles

1. Committed to accountability and excellence: if we attract best of the students, staff and faculty and retain relevance, the culture of excellence shall be nurtured through out the institution in both academics and administration.
2. Foster leadership and ethical decision making: The leadership

and decision making ethically shall strengthen the organization and support for its growth.

3. Strengthen faculty and staff: The faculty should raise the quality of academics, staff should deliver their services to support faculty in promoting and enriching their academics.
4. Student focus: the teaching learning process should inculcate the practices, of inspiring to contribute to the society, implementing innovative ideas.

Long term Goals

1. To facilitate students to become entrepreneurs (incubation center)
2. To create centres of Excellence
3. To provide Modern Infrastructure facility
4. To establish collaborative laboratories with the support of industry
5. To collaborate with foreign/ National Institutions of higher learning and research organizations.

Short term Goals

1. To introduce new UG programs and enhance the intake of existing programs.
2. Enhance the output in Research and consultancy
3. Introduce Multidisciplinary courses/projects.
4. Improve teaching learning process

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://naac.tkrctet.com/21-22/criterion-6-2/
Upload any additional information	No File Uploaded

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

Detailed information regarding the following are uploaded in the additional information tab:

Organizational chart

Roles and Responsibilities

Service rules

Standard operating procedures

File Description	Documents
Paste link to Organogram on the institution webpage	https://tkrcet.ac.in/academics/bog/
Upload any additional information	View File
Paste link for additional Information	https://naac.tkrctet.com/21-22/criterion-6-2/

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

A. All of the above

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

6.3 - Faculty Empowerment Strategies

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

- **Staff Welfare**
- **Group Insurance**
- **Increments for Higher Education**
- **Maternity Leaves**
- **Dispensary**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-6-3/

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

1

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

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

6

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

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

190

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institution has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. Internal audit is conducted half yearly by the internal financial committee of the institution. The committee thoroughly verifies the income and expenditure details and the compliance report of internal audit is submitted to the management of the institution through principal. External audit is conducted once in every year by an external agency.

The mechanisms used to monitor effective and efficient use of financial resources are as below:

1. Before the commencement of every financial year, principal submits a proposal on budget allocation, by considering the recommendations made by the heads of all the departments, to the management.
2. College budget includes recurring expenses such as salary,

electricity, internet charges, maintenance cost, stationery, other consumable charges etc., and non – recurring expenses like lab equipment purchases, furniture and other development expenses.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-6-4/link for additional information

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

0

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

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

The institution always monitors the effective and efficient use of available financial resources for the infrastructure development to support teaching learning process. TKR College of Engineering and Technology is an autonomous self-financed private institution, tuition fee is the main source of income. Along with tuition fee, research grants from various Government and Non Government agencies, consultancy projects and funding from alumni are add on resources for mobilization of funds. These funds are utilized for all recurring and non-recurring expenditure. The institution has a well-defined mechanism to monitor effective utilization of available financial resources for the development of the infrastructure to augment academic needs.

All the administrative and academic heads along with coordinators of different cells (viz., research committee, placement cell, library advisory committee (for the purchase of books / journals), purchase committee (for repair and maintenance cost) software and internet

charges, printing and stationary, equipment and consumables, furniture and fixtures), NSS cell, sports, cultural committee etc., will submit the budget requirements for the coming academic year. The finance committee prepares an annual budget estimate duly considering the proposals received and also the recommendations of the principal and management.

All the major financial decisions are taken by the institute's financial committee and Governing Body

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://naac.tkrcet.com/21-22/criterion-6-4/

6.5 - Internal Quality Assurance System

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

TKRCET attempts to chisel out the total quality person through a persistent focus on imparting quality education, through its innovative, comprehensive and flexible education policy. Its Internal Quality Assurance Cell (IQAC) carries out activities that encompass all aspects of the Institute's functioning. Since the inception of IQAC, it has been performing the following tasks on a regular basis: 1. Improvement in quality of teaching and research by regular inputs to all concerned based on feedback from students. 2. Providing inputs for best practices in administration for efficient resource utilization and better services to students and staff. 3. Providing inputs for Academic and Administrative Audit and analysis of results for improvement in areas found weak. Students and staff give their feedback and suggestions on teaching and administrative performance through the Suggestion Box located in each Departments and Principal office, or through email

The IQAC has immensely contributed in the implementation of quality assurance strategies and processes at all levels. The Institute IQAC regularly meets The Institute IQAC prepares, evaluates and recommends the following for approval by the relevant Institute and Govt. statutory authorities: (a) Annual Quality Assurance Report (AQAR) (b) Self-Study Reports of various accreditation bodies (c)

Stakeholder's feedback (d) Action Taken Reports (e) New Programmes as per National Missions and Govt. Policies

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-6-5/

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

IQAC being the central body within the college monitors and review the teaching-learning process regularly. Based on feedback various innovative activities and reforms were introduced. The improvements based on feedback implemented are:

A)IQAC periodically reviews the teaching-learning process, structures & methodologies of operations, and learning outcomes:

The standard methods of teaching, learning, and evaluation which are proven over the years are being followed.

Academic Calendar:

Preparation of lesson plan for each Semester:

Daily lecture Record

Evaluation of teachers by students:

Student learning outcomes:

Regular class tests and interactions

1. Midterm and continuous evaluation comprising of internal tests, assignments, group discussions, and seminar presentations.
2. Semester system of examination for all courses.
3. Providing Question bank of various subjects to the students.
4. Providing Lecture notes through an online portal
5. Timely Redressal of students' grievances.
6. At least 75% Attendance is compulsory in each semester.
7. Extra classes for weak students to solve their problems.

Effective internal examination and evaluation systems:**Students' result analysis:**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://naac.tkrcet.com/21-22/criterion-6-5/

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

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	No File Uploaded
Upload details of quality assurance initiatives of the institution	No File Uploaded
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities**

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

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

TKR College of Engineering and Technology sensitizes students and employees regarding gender equity and takes the social

responsibility of reacting to the events happened in the society by various activities. The institute promotes gender equity in admissions, recruitment, administrative functionality and academic activities.

Measures initiated by the institution for the promotion of gender equity during the year:

- Separate NCC wing is created to encourage girl students, are participating in various activities.
- Separate NSS unit is started exclusively to encourage the girl students and the unit is successfully conducting various activities to serve the society.
- Girls waiting halls are provided in each block in the campus with required facilities. Two girl's hostels are provided with gym facility and dispensary with lady doctor and a nurse.
- Health centre is provided in the campus with qualified physician and male & female nurses with separate treatment rooms for girls and boys.
- Separate space is provided for girls in the central library and the college canteen to avoid inconvenience.
- The girl students are nominated as members of various committees at department, institute levels and the institute encourages their participation in co-curricular and extra-curricular activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://naac.tkrcet.com/21-22/wp-content/uploads/2023/01/7.1.1-2021-22.docx

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

C. Any 2 of the above

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

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

The facilities in the Institution for the management of the following types of degradable and non-degradable waste

1. Solid waste management
2. Liquid waste management
3. Biomedical waste management
4. E-waste management
5. Waste recycling system
6. Hazardous chemicals and radioactive waste management

TKR College of engineering & Technology has designed methods for the management of waste generated in the campus using the basic waste management strategy of 3R's: Reduce, Reuse and Recycle The waste generated is classified into the following types:

1. Solid waste Management

Solid waste includes both biodegradable and non-biodegradable components. The non-biodegradable solid waste generated in the campus include, paper, plastics, metal cans etc. Biodegradable waste includes food waste, vegetable peels, leaves etc.

2. Liquid waste Management

Liquid waste that is generated in the institute falls into three following categories.

1. Septic tank effluents from various sanitary blocks, water used for washing and cleaning of utensils etc. from canteen
2. Wastewater from laboratories using chemicals
3. Wastewater from RO plant

3. E-waste Management

E-waste or electronic waste is created when an electronic product is discarded after the end of its useful life. E-waste mainly includes obsolete electronic devices

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

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

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

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

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

B. Any 3 of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	View File

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

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	D. Any 1 of the above										
<table> <tr> <th data-bbox="86 692 552 757">File Description</th><th data-bbox="552 692 1477 757">Documents</th></tr> <tr> <td data-bbox="86 757 552 898">Reports on environment and energy audits submitted by the auditing agency</td><td data-bbox="552 757 1477 898">View File</td></tr> <tr> <td data-bbox="86 898 552 1003">Certification by the auditing agency</td><td data-bbox="552 898 1477 1003">View File</td></tr> <tr> <td data-bbox="86 1003 552 1108">Certificates of the awards received</td><td data-bbox="552 1003 1477 1108">No File Uploaded</td></tr> <tr> <td data-bbox="86 1108 552 1173">Any other relevant information</td><td data-bbox="552 1108 1477 1173">No File Uploaded</td></tr> </table>	File Description	Documents	Reports on environment and energy audits submitted by the auditing agency	View File	Certification by the auditing agency	View File	Certificates of the awards received	No File Uploaded	Any other relevant information	No File Uploaded	A. Any 4 or all of the above
File Description	Documents										
Reports on environment and energy audits submitted by the auditing agency	View File										
Certification by the auditing agency	View File										
Certificates of the awards received	No File Uploaded										
Any other relevant information	No File Uploaded										
7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.											

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

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

TKR College of Engineering and Technology is always at the forefront of inviting diversity, eradicate stereotypes, enhance self-esteem, encourage students to have a voice and demand educational achievement.

To achieve these objectives, courses like Constitution of India, Essence of Indian Traditional Knowledge, three weeks Orientation Program are incorporated as a small step to imbibe and inculcate these traits among the students.

Teachers deliver lectures with an acceptance and appreciation for different ideas, opinions, and learning styles of the students and make an earnest effort to understand the racial and cultural characteristics of students.

Along with curriculum, additional communication and soft skills classes are conducted to make the students from different backgrounds communicate effectively.

Social Protection cell, Grievance Redressal cell and Lady Advisory Committee aims at social protection, ensuring tolerance and harmony, reducing vulnerability, building human capital, empowering women and girls, cultural, regional inclusion.

Every year TKR celebrates annual day, Traditional Day and the annual students fest Shiznay. For Shiznay renowned artist from Cine world are called to entertain the students and staff.

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

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

India is a vast country with many languages, subcultures, religions and ethnic diversities governed and guided by the Constitution irrespective of caste, religion, race sex.

TKR College of engineering and Technology sensitizes the students and the employees of the institution to the constitutional obligations about values, rights, duties and responsibilities of citizens which enables them to conduct as a responsible citizen.

The vision of the institute is "To develop integrated manpower with right attitude, possessing knowledge and skills, required to make an honourable living and contribute to the socioeconomic development and welfare of the society". These elements are inculcated in the value system of the college community.

The institute hoists the flag during national festivals and invites eminent persons to inspire students and staff by informing the qualities of freedom fighters and to emphasize the duties and responsibilities of citizens.

The students are inspired by conducting various programs on culture, traditions, values, duties and responsibilities competitions are conducted among students for Rangoli

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on

B. Any 3 of the above

the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

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

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

The institute aims to inculcate values and nationalism in the students by celebrating the national festivals and birth anniversaries of great Indian personalities in the college campus every year. The celebrations include flag-hoisting, Project Exhibitions, Poster Presentations, Walks, Essay Writing, and Elocution. Eminent personalities are invited to motivate staff and students by their inspirational speeches on those days.

Republic Day and Independence Day:

Every year the Institution celebrates Republic Day and Independence Day hoisting the national flag by Chief Guest of the Programme and presents medals and certificates to the NCC cadets for their best performance. Students and staff salutes the flag and then sang the National Anthem.

Teachers Day :

The Institution celebrates Teacher's Day commemorating the birthday of Dr.SarvepalliRadhaKrishnan, a great teacher. On that day the Institution felicitates eminent personalities from the educational field.

Engineer's day :

The organization celebrates Engineer's Day on 15th September to mark the birth anniversary of Sir Mokshagundam Visvesvaraya by project exhibitions. Different project models are developed and exhibited by the students.

Women's Day:

International Yoga Day:

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

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

BEST PRACTICES:

1. A STUDENT- FRIENDLY MENTORING SYSTEM

OBJECTIVES:

- To ameliorate the affection and interaction that exists between the faculty and students.
- To provide the students a platform to express their grievances.

THE CONTEXT:

There was a general decline of alacrity among students to attend the formal lecture classes. The teachers themselves observed many students (20%) lacked the initiation to pursue undergraduate courses. This was because

- Students coming from rural areas of the state had problems of adjustment into the new environment.

- Students were under a misconception that attending lecturers would not help them to significantly improve their skills in procuring jobs.

Having identified the causes, the teachers along with the Principal and Management decided to introduce an efficient student – friendly mentoring system. This practice helped in motivating students to a large extent. Students were provided with an opportunity to talk and interact with the faculty before and after the classes. Students started to come back to their classes and participate actively in curricular and co-curricular activities. They were more expressive and this activity greatly helped in reducing their stress. A deeper bonding was developed between the teacher and his/her students.

File Description	Documents
Best practices in the Institutional website	http://tkrcet.ac.in/wp-content/uploads/2023/01/criteria-7.2-for-2021-2022-1.pdf
Any other relevant information	https://naac.tkrcet.com/21-22/criterion-7-2/

7.3 - Institutional Distinctiveness

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

INSTITUTIONAL DISTINCTIVENESS

PRAGMATIC ENGINEERING

TKR College of Engineering and Technology vouches the concept of 'Pragmatic engineering'. Pragmatic Engineering is about having "an oversized impact on the business by applying the right technology at the right time. It's about creating a technology that has a technical and social impact on the underlying business".

For example building an electric car is cool, but producing a version in which people feel safe travelling is challenging. This is engineering that changes the world forever. Students at TKR College of Engineering and Technology are trained in key things that matter in the development and fabrication of various products. While designing a product there should be a balance between form and function. The design should be aesthetically pleasing vs easy to

use. Then there is the question of fabrication. "How well can we make it? Can we deliver it quickly?

The college strongly believes that good engineers are always open to learning about what new things are coming out and open to different opinions; frameworks and ways of thinking.

File Description	Documents
Appropriate link in the institutional website	http://tkrcet.ac.in/wp-content/uploads/2023/01/criteria-7.3for-2021-2022-2.pdf
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1. To recruit and retain well qualified motivated faculty.
2. To provide amenities and sports facilities in harmony with nature.
3. To provide holistic value based education and inculcate entrepreneurial abilities in students to face the challenges of corporate world.
4. To arrange career guidance programmes.
5. To obtain better NIRF Ranking