



YEARLY STATUS REPORT - 2022-2023

Part A

Data of the Institution

1.Name of the Institution		TKM COLLEGE OF ENGINEERING, KOLLAM
• Name of the Head of the institution	Dr. T A SHAHUL HAMEED	
• Designation	Principal	
• Does the institution function from its own campus?	Yes	
• Phone No. of the Principal	04742712024	
• Alternate phone No.	04742712022	
• Mobile No. (Principal)	9847072024	
• Registered e-mail ID (Principal)	principal@tkmce.ac.in	
• Address	TKM College PO, Karicode	
• City/Town	Kollam	
• State/UT	Kerala	
• Pin Code	691005	
2.Institutional status		
• Autonomous Status (Provide the date of conferment of Autonomy)	02/09/2022	
• Type of Institution	Co-education	
• Location	Urban	

• Financial Status	Grants-in aid				
• Name of the IQAC Co-ordinator/Director	Dr. Muhammed Siddik A				
• Phone No.	04742712024				
• Mobile No:	9446162589				
• IQAC e-mail ID	iqac@tkmce.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://tkmce.ac.in/uploads/AQAR21-22n.pdf				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://tkmce.ac.in/academic-calendar.php				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.11	2017	27/11/2017	26/11/2022
Cycle 2	A	3.11	2022	27/11/2022	31/12/2027
6.Date of Establishment of IQAC			13/10/2015		
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
Institution-TKM College of Engineering	Autonomy	UGC	02/09/2022	Nil
Faculty-Dr. Adarsh S	Research	SERB	27/01/2021	28.59 Lakhs
Department-Mechanical Engineering	FIST	DST	03/02/2022	69 Lakhs
Institution-TKM College of Engineering	RUSA	MHRD	18/12/2018	1.5 crores

8. Provide details regarding the composition of the IQAC:

<ul style="list-style-type: none"> Upload the latest notification regarding the composition of the IQAC by the HEI 	View File	
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9.No. of IQAC meetings held during the year

1

<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes
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<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
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10. Did IQAC receive funding from any funding agency to support its activities during the year?

No

<ul style="list-style-type: none"> If yes, mention the amount 	Rs. 20650/-
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11. Significant contributions made by IQAC during the current year (maximum five bullets)

1. Took a leading role in collaboration with the curriculum committee

to prepare and review of the curriculum, regulations, and syllabus for the autonomous batch. 2. Reviewed and revised existing policies for various institutional activities and revised policies are made available to the departments. Continuous monitoring, timely and efficient documentation of all internal activities for review and quality improvement done through its well-defined quality policy. 3. A procedure has been developed for the poster presentation of B-Tech final year projects, and an institutional-level prize has been established for the best B-Tech final year student project work. Poster presentations are conducted according to the approved guidelines developed for this purpose. 4. Procedures has been established to facilitate the transition of the college from affiliated to autonomous status, with a particular focus on organizing statutory meetings such as the Academic Council and Board of Studies, as well as the conduct of examinations. 5. Examination management system training program conducted to faculty on 18 November 2022.

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
Conducted internal academic Audit	Process ensured outcome-based education are followed in the departments
Reviewed and submitted the self-assessment reports of six departments to the National Board of Accreditation (NBA) and coordinated all activities related to the peer team visit for four departments	Received NBA accreditation for all four departments for three years.
The IQAC submitted a report to the principal recommending that the institution become a member of the National Academic Repository (NAD).	The institution has registered with the NAD, students are encouraged to obtain an ABC ID, and the examination wing has begun the process of uploading academic credits to the NAD.
The internal examination review and scrutiny process has been streamlined, and the institution-approved formats for the review have been distributed to the departments.	Internal examination question paper scrutiny has been completed for odd & even semester in all departments, and the formats have been documented by the coordinators of the Department Quality Assurance Cell (DQAC).
Conducted Student induction Program for first year	First-year students were provided with training on outcome-based education and universal human values (UHV), as well as familiarization with various facilities of the institution and professional body activities
Student Academic record developed and distributed.	Each first-year advisory has been provided with a pre-printed student profile data with provision to document the academic, co-curricular, and extracurricular activities of their students.

13. Was the AQAR placed before the statutory body?	No
<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
Nil	Nil
14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> Year 	
Year	Date of Submission
2022-2023	19/03/2024
15. Multidisciplinary / interdisciplinary	
<p>The year 2022-2023 is marked as the most important milestone year, when the College became "Autonomous". The Vision of our Institution is "Excellence in Education and Research with Socio-Economic and Environmental Outlook". The value "Excellence" is added in the Vision Plan keeping in mind that every individual in the College will strive for the best performance of the complete community in the most collaborative manner. In pursuit of the perfection by each individual, diverse capabilities have to be nurtured and improved. Thus basic requirement of NEP 2020 has already been instilled into the College Vision and Mission. The new curriculum with all flexibility in credits and domains is functional from the academic year 2023-24, but the process of moving the College from the affiliated to the Autonomous domain, much discussions were initiated in the year 2022-23. The 2019 Scheme of curriculum had to be adopted during 2022-23. It as such covers humanities and other Soft skill courses along with the usual Engineering Courses. The courses range from: Constitution of India to Professional Ethics, Design Engineering to Sustainable Engineering and Life Skills to Professional Communication. All UG programmes have the curricula including all these courses for the holistic development of students. Multidisciplinary research and projects have been initiated in several areas with faculty from many Departments work to fulfill a goal. The joint ventures are expected to be successful in producing papers and patents. The multidisciplinary project works</p>	

include Magneto-Rheo Fluids - Civil and Mechanical Nano-fluids as transformer oil - Electrical and Physics Sustainable building materials - Civil and Architecture The process of accumulating "activity points" as a mandatory part of the curricula ensures the students presence for community engagement and other activities for the benefit of the society. The value based courses hosted by several agencies are identified as sources for them to grab the activity points. So the students open up their arena and grow in a multidimensional way.

16.Academic bank of credits (ABC):

The institution registered with the Academic Bank of Credits (ABC) after gaining autonomous status. Extensive promotion and continuous follow-up have led to 90% of students who joined in 2022 creating their ABC IDs. The process of uploading these students' grade cards, along with their credits, to the NAD portal is ongoing. For the 2023 batch, about 60% have already created their ABC IDs, with efforts underway to ensure full registration so that grade cards can be uploaded promptly after exam results are announced. The institution aims for 100% registration of all students admitted since 2022, to establish a comprehensive credit repository for the benefits of multiple entry and exit options. Creating ABC IDs is mandatory for all students post-autonomous status, and constant follow-up is in place. Students must enter their ABC IDs in their profiles within the Academic Management System. The examination office monitors student profiles, circulating lists of those who have yet to create IDs to the respective faculty. Faculty members encourage and assist students in this process. Through persistent monitoring and support, the goal is for all students to create their ABC IDs.

17.Skill development:

Recognizing the significance of skill development, the college has implemented various programs to enhance students' abilities. Throughout the year, several Capacity Development and Skill Enhancement activities were organized to boost student capabilities in the following areas: 1. Soft skills, 2. Communication skills, 3. Life skills 4. Industry relevant technologies. The laboratory components of the courses directly contribute to the development of skills. A 3 Day skill development program was conducted for 25 final year students of TKMCE by ASAP (Additional Skill Acquisition Program, A Government of Kerala undertaking) on work readiness program on 6th,7th and 8th October -2023. The resource person for the program was Mrs.Mothy Prathap, professional Trainer, ASAP, Kerala and the program was conducted to equip the final year students to perform well in the campus placement drives. It was a

15 hour grooming program to enhance the soft skills of final year students and the program focused on Resume building Email and covering letters Interviews Professional networking Etiquettes Group Discussion. Additionally, the college organizes Skill Development programs through workshops, seminars, and training sessions for Faculty members, Technical Staff and students under AICTE-Idea Lab.

Title	Event Duration	Event Type	No Of Participants	Participants
Workshop On 3d Modelling And Printing	08-06-2023 To 09-06-2023	Skilling Programme	21	Faculty & Technical staff
Workshop On Embedded System Development	17-09-20223 To 22-09-2023	Skilling Programme	25	Students of all branches
Role Of Bamboo In Architecture Together A Sustainable Structure	24-07-2023 To 26-08-2023	Ideation Work Shop	37	B.Arch Students

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

TKM College of Engineering values integrating Indian knowledge systems, including teaching in Indian languages and promoting Indian culture, into its academic framework. The college has established various literary associations to promote Indian languages and culture among students. These associations organize cultural events, festivals, writing and speaking contests, showcasing the richness of Indian traditions. Additionally, the college enhances traditional classroom teaching with digital resources that promote Indian knowledge systems. Faculty members participating to translate textbooks and resources into Indian languages, catering to students more comfortable learning in their native tongues. Under the American Society for Civil Engineers (ASCE), a lecture series on Vastu and yoga was conducted. SPICMACAY (Society for the Promotion of Indian Classical Music and Culture Amongst Youth) has been active at the college since 2010, regularly hosting events, the most recent being a Manipuri cultural program in March 2023. Another notable initiative is 'Layatharang,' organized by the Surya chapter, which has been functioning on campus. Institution Conducts YOGA sessions regularly (as part of Student Induction Programme mandatorily for first years). International YOGA Day was celebrated in the campus. The TKM Group of Institutions hosted the Yoga Day at TKM College of Arts and Science, which was inaugurated by the Union Minister for Sports. Principal along with faculty and staff, participated in the above programme. Special Sessions were conducted for Civil and Architecture students in VASTHU - the traditional constructional technology.

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

Since 2013, TKMCE has adopted an outcome-based approach to teaching

and learning. Each program is structured around Program Outcomes (PO) aimed at developing specific graduate attributes, with Program Specific Outcomes (PSO) addressing the unique needs of each program. At the course level, all courses are designed with clearly defined Course Outcomes during the syllabus creation phase, focusing on fostering higher-order thinking in students. The accreditation of all undergraduate programs and two postgraduate programs was successfully completed under the OBE domain in three cycles: 2016, 2019, and 2022. Notably, the Civil and Mechanical undergraduate programs received six-year accreditation in the first cycle. The institution consistently scored above 650 marks, demonstrating its strong implementation of academic and administrative systems aligned with the OBE philosophy. The NBA team provided good commends regarding the OBE awareness during their visit in 2022.

20.Distance education/online education:

In 2020, TKM College of Engineering, in collaboration with the Additional Skill Acquisition Programme (ASAP), established a state-of-the-art studio to offer Massive Open Online Courses (MOOCs) using advanced technologies for an enhanced learning experience. When COVID-19 restrictions began in April 2020, the Internal Quality Assurance Cell (IQAC) developed and successfully implemented an online system for both faculty and students. Online video classrooms were facilitated initially through Google Classrooms and later via the ETLAB Learning Management System. Recorded lectures are still accessible on private YouTube channels. Additionally, several workshops were conducted to help faculty develop expertise in creating and delivering online study materials effectively. To promote online education, the college supplied 100 laptops to students and provided digital boards for each classroom. The college has been an active NPTEL local chapter since 2016, achieving the highest grade of AAA and recognition as a star performer. Additionally, 80% of our students complete at least one MOOC course during their studies.

Extended Profile

1.Programme

1.1

21

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student2.1 4009

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 859

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 1035

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.Academic3.1 446

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 223

Number of full-time teachers during the year:

Extended Profile

1. Programme

1.1 **21**

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2. Student

2.1 **4009**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 **859**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 **1035**

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 **446**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	223
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	184
Number of sanctioned posts for the year:	
4.Institution	
4.1	376
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	73
Total number of Classrooms and Seminar halls	
4.3	2276
Total number of computers on campus for academic purposes	
4.4	375
Total expenditure, excluding salary, during the year (INR in Lakhs):	

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.

TKM College of Engineering, is now an autonomous College, affiliated to APJ Abdul Kalam Technological University (APJAKTU). The discussions on the new curriculum was initiated with the submission of application to UGC for autonomy. The curriculum and syllabi were prepared spanning all twelve Graduate attributes (UG Programme Outcomes) and the identified PSOs of each programme. This was done as the curricular gap identification and the

additional programmes to bridge the gap was being carried out for the past several years,

- The final curriculum with much flexibility could not be commenced for the 2022 admission students due to the time elapsed by the University in carrying out other processes.
- The 2019 Scheme curriculum followed the University was adopted by the College, but the academic procedures are carried out by the College indogeneously.
- All the 21 programmes have the new courses with the evaluation conducted by the College under the new Controller of Examination and approved by the new academic council
- The global goals POs based on Knowledgewere aligned with the technical courses
- The skill based goals POs based on Skills were aligned to the practical courses and projects
- The attitude based goalsadopted through local needs is addressed by humanities and social based courses, assignments and projects.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://tkmce.ac.in/syllabus

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

21

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

19

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	View File
Any additional information	View File

1.2 - Academic Flexibility

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

20

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

25

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
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

The 2022 scheme B Tech curriculum includes several socially

relevant courses under the category of Humanities and Social Sciences including management which accounts for 5% of the total credits. There are another set of Mandatory Non- credit courses which are oriented towards sustainability, Civic Sense, Disaster management and Safety. List of the courses:

- Life Skills
- Professional Communication
- Professional Ethics
- Sustainable Engineering
- Constitution of India
- Disaster Management
- Industrial Economics and Foreign Trade
- Management for Engineers
- Industrial Safety Engineering

Departments also offer Open Electives of interdisciplinary nature

- ENVIRONMENTAL IMPACT ASSESSMENT
- NATURAL DISASTERS AND MITIGATION
- ENVIRONMENTAL HEALTH AND SAFETY
- RENEWABLE ENERGY SYSTEMS
- ELECTRIC VEHICLES
- ENERGY MANAGEMENT

The curriculum achieves most of the sustainable development goals through these courses. The dissertation topics of B. Arch are also selected so that due importance is given to the environment and sustainability.

The motivational talks by IAS officers and senior police officials during the Student Induction Programme (SIP) for First year

students, address the issues relevant to Universal Human Values and gender sensitization. The cross-cutting issues are also discussed through content beyond the syllabus. A sample curriculum is attached.

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

19

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	View File

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

1629

File Description	Documents
List of students enrolled	View File
Any additional information	View File

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

1118

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 from 1) Students 2) Teachers 3) Employers and 4) Alumni **A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	NIL
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

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	NIL
Any additional information	View File

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

1104

File Description	Documents
Any additional information	View File
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)

344

File Description	Documents
Any additional information	View File
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 institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Identifying the learning capability level of each student is taken up as a joint effort by the faculty teaching the respective courses in the class as well as their faculty Advisory group. The challenge of diversity is reflected in two domains:

- Student Induction Program (SIP) is organized to facilitate a smooth transition from their home and school environment into the college and university environment through various discussions and activities.
- The advisory committee, class committee and course committee are functioning in all the departments to assess students' progress. After the first internal examination, a review between HoD, senior advisor, subject coordinators and student representatives in the class/course committee is done to assess the student's academic performance. Based on their performance, a classification under Excellent, Good, Average and at-risk categories is made to mentor them for improved performance.

Fast learners are allowed Minor projects, Honors, Final year projects, conferences, Web development, Internships, and MOOC courses.

Slow learners are offered Basic communication courses, Remedial, Bridge courses, Induction programs, Peer group learning, and Tutorials.

The Placement cell regularly provides the students with career guidance and training to equip them to secure a job during their term of study.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
15/09/2023	4009	223

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:

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

TKMCE strives to achieve excellence through holistic development of students.

Experiential learning:

- Hands-on training are provided in 82 laboratories with sophisticated and modern experimental arrangements
- Internships, technical competitions and workshops provide field exposure
- Industrial visits to companies, historical sites and tourism spots
- Technical fests are organised to develop the technical, managerial and cultural skills
- Diligent efforts are taken by various clubs and associations to nurture creativity, innovation, talents and social commitments

Participative learning:

- Flipped classroom, a form of blended learning integrates classroom activities with ICT tools
- Conferences, workshops and seminars
- Expert talks, TED Talks, debates & panel discussions
- Peer learning through mini projects and final year projects encourage shared learning

Problem solving methodologies: Students understand the concepts and learn to apply knowledge for solving real life problems

- Project works carries out by UG and PG students help them to explore real life problems and advancements in the area of their study
- Students are encouraged to apply for funded projects so that they are financially assisted in developing solutions and also make research publications through their work
- Case studies are presented in the classroom regarding the topic of discussion for linking theoretical knowledge and real life problems.

File Description	Documents
Upload any additional information	View File
Link for additional Information	NIL

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

Effective Teaching Learning is carried out in the College by judicious usage of ICT tools

- Campus Wifi supported by Central UPS helps uninterrupted data transactions for both faculty and students

- All 73 classrooms are provided with Campus Wifi as well as projector facility
- Interactive Boards are also provided in 14 classrooms from the TEQIP fund and PTA.
- The Seminar Halls are also provided with ICT facilities
- The ASAP Room has a video recording studio facility which has helped the faculty to create online resources for sharing with students
- Students are also supported in the campus and Hostel with the Wifi which enables them to undertake MOOC courses/NPTEL/SWAYAM courses for Minors/Honours/Activity points
- The academic Management System ETLAB enables the preparation of lecture planning, delivery of lectures, attendance entry, assignments, quizzes and internal evaluations.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	NIL
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

180

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

The Academic calendar prescribes the schedule for all activities of each semester including Sports, Arts festivals, Special Day

Celebrations, Technical Fests, Class committee meetings etc. •

- The number of working days is strictly followed as per the directive issued by Dean Academics after compensating for any loss of day due to local holidays.

- The dates for every activity of the clubs like IEEE, IE(I), NSS etc are also collected while preparing the Academic Calendar to facilitate the holistic growth of students.

- Class Committee meetings are scheduled and feedback are collected from the students and faculty

- The Continuous Internal Evaluation CIE process is scheduled in the calendar and conducted.

- The Central Examination Committee, led by the Principal and including representatives of all Departments, ensures timely publication of internal exam timetables and smooth conduct of all exams.

- At the end of the semester, the attendance and internal marks are published to the students in ETLAB. It is analysed by the Programme Assessment and Quality Improvement Committee (PAQIC) and once approved, uploaded as per schedule.

The external Auditor appointed ensures the compliance of the schedule.

<https://tkmce.ac.in/academic-calendar>

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

223

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	View File

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

82

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	View File

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

15

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

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

26

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	View File

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

197

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	View File

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

Every Semester, there are two internal assessments conducted in a centralized manner.

Examination Cell: The superintendent along with committee members representing all Departments supervises the following activities

- Conduct of internal and external examination
- Assignment of invigilation duty and other works related to examination cell
- Examination hall allotment and overall seating arrangement
- Conduct of Retest as per university guidelines and institution policy

Examination Squad

- An internal examination squad working for the effective conduct of internal examinations. Observer and external squad is posted by university for end semester examination.

- The squad inspects cases of malpractice and metes out disciplinary action as deemed necessary
- Examination halls are under CCTV surveillance to monitor the smooth conduct of exams.

Assignment, Seminars and Projects

- Assignments are done as a group or an individual which provides opportunity to learn, practice and demonstrate the achievement of learning goals intended through a course.
- Seminar and projects guarantee participative learning which prompts students to gather additional informational and put in to practice. This also enhance the various types of communication skills, interpersonal skills and technical skills. The evaluation is performed as per the published rubrics.
- The valuation is done in a time bound manner and the marks are available in ETLAB.
- <https://tkmce.ac.in/examinations>

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/examinations

2.6 - Student Performance and Learning Outcomes

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

The Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) for all Programmes are stated and displayed in the website. The Course Outcomes are prescribed for all courses in 2019 Scheme Curriculum of the University. The Subject Group verifies and approves the set of COs after required modifications. They are then made available in the Academic management system -ETLAB for reference to Students and Faculty.

The format of the COs of a Course is attached.

CODE

COURSE NAME

CATEGORY

L

T

P

CREDIT

EET206

DIGITAL ELECTRONICS

PCC

3

1

0

4

Preamble: Nil

Prerequisite: Nil

Course Outcomes: After the completion of the course, the student will be able to:

CO 1

Perform arithmetic operations in decimal, binary, octal and hexadecimal number systems

CO 2

Design and implement combinational logic circuits.

CO 3

Design and implement sequential logic circuits.

CO 4

Compare the operation of various analog-to-digital and digital-to-analog conversion circuits.

CO 5

Explain the basic concepts of programmable logic devices and VHDL.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://tkmce.ac.in/ug-civil.php

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

Attainment of COs can be measured using direct and indirect assessment tools. They include internal assessments, assignments, quizzes, seminars, projects etc. Indirect CO attainment is calculated by Course Exit Survey. External CO attainment is calculated from the end semester university examination. The weighted sum of Internal and External CO evaluation indices, are in the ratio of 60:40.

The level of attainment of CO is decided at the PAQIC. A sample of the level definition is -

- Level 3 - More than 70% of the students secure more than 60% marks
- Level 2 - Between 60 and 70% of the students secure more than 60% marks
- Level 1 - Between 50 and 60% of the students secure more than

60% marks

- Level 0 - Less than 50% of the students secure more than 60% marks

$$CO_{course} = 0.8 * CO_{Direct} + 0.2 * CO_{Indirect}$$

The CO-PO correlations are mapped at different levels (1/2/3) for each course.

The POs are evaluated as

$$PO \text{ Contribution from a course} = (CO_{course} \text{ Attainment Level} * \text{Mapping} / 3)$$

PO attainment is calculated from the complete contribution of all the courses in the curriculum.

$$PO_i = (\sum PO_i \text{ Contribution from Mapped courses}) / \text{No of mapped course}$$

The PSO attainment calculations are also very similar to PO attainment calculation.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	NIL

2.6.3 - Pass Percentage of students**2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution**

859

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	NIL

2.7 - Student Satisfaction Survey

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

<https://tkmce.ac.in/igac-student-satisfaction-survey>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

TKM College of Engineering has always promoted Research and Development activities with a clear cut Research Policy. A dedicated Reserach Dean is appointed to cater to the requirements of the Research Community. The Reserach Council consisting of the Research spearheading faculty representing all Departments supportsall the activities encouraging every faculty, staff and student involved in innovative activities of the Institution. The Institution Innovation Cell is also involved with the projectdevelopment and patent creation.

The facility created for the research activity during the year are

- Campus wide License for MATLAB software worth Rs 16 Lakhs - enabling mathematical modelling, simulation and product development in all Departments
- Upgradation of the IDEA lab and FAB Lab for product development
- Building of RUSA supported infrastructure for Reserach , Entreprenuership and TBI activities
- Encourage maximum participation by faculty for Research Seed Moneyand project funding application by CERD,
- Encourage maximum submission of papers at Conference and registration

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://tkmce.ac.in/uploads/rules/8%20Research%20Policy.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)

20.68

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	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

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

1

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	View File

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)

267.77

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

16

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

45

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

7

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	NIL
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 institution has a vibrant ecosystem for innovations, Entrepreneurship, Incubation and Startups being headed by 4 different cells of our institute : IIC (Institution's Innovation Council), IEDC (Innovation & Entrepreneurship Development Centre), AICTE-IDEA Lab and One District One Idea (ODOI) MSME innovation cluster.

Achievement's of IIC

- Badged in performer brand of ARIIA Ranking 2021
- Awarded 4-star rating by MOE
- 5 lakh grant form IIC, MoE for a student start-up

Achievements of IEDC

- 24 Incubated Start-up have become registered companies
- 23 Start-ups incubated in IEDC but not registered

AICTE-IDEA

- TKMCE among 49 peer institutions pan India that bagged AICTE grant to set up IDEA Lab in 2021.
- Modern facilities will soon replace the traditional mechanical workshop.

- The total project cost is estimated at 82.48 lakh Indian Rupees, 40 percent of which will be funded by AICTE and remaining will be funded by industry/institute. The project will be implemented in two years.

TKMCE has been awarded One District One Idea (ODOI) MSME Innovation Cluster for Kollam District. One District-One Idea (ODOI) MSME Innovation Clusters is an innovation challenge for manufacturing clusters and micro-enterprise clusters. K-DISC (Kerala Development and Innovation Strategic Council) provide seed money for the innovation component and technology support for fostering innovation.

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

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

3

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

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

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

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

22

File Description	Documents
URL to the research page on HEI website	https://tkmce.ac.in/research-supervisors.php
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

0.7

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

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

0.51

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

308

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

9

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

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

54.12986

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	View File
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

50.85051

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
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

TKMCE has several professional bodies which work towards the holistic development of the students. They are NSS, IEEE, IE(I), SAE etc. The NSS Units 174 & 262 of TKM College of Engineering initiated a series of impactful events to foster social awareness, community engagement, and personal development among its students and volunteers. It stands as a testament to the power of collective action in addressing the pressing challenges faced by societies. NSS Units 174 & 262 of TKM College of Engineering along with IMA Blood Bank Kollam and Tranvancore Medical College Hospital, Kollam for organising medical camp and blood donation camp.

The NSS Units 174 & 262 of TKM College of Engineering organized PRAVAAH, a 3- day all Kerala event endeavored to achieve the impossibilities. The event aimed to envision a future India where dreams are boundless and the extraordinary thrives. It comprised of a total of 8 sub events including debates, talk sessions, quizzes, jam and competitions namely, Blinks, Ink tales, Clip Clash and many more. It succeeded in fostering a social bond and lifelong memories.

As a part of the World Environment Day, a tree planting activity was also organised at Harijan LP School, Kottamkara.

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

7

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

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)

38

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

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

150

File Description	Documents
Reports of the events	View File
Any additional information	View File

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

32

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

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)

77

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	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The institute's infrastructure development aligns with AICTE and UGC norms, ensuring conducive academic environments. Spanning 16 acres, the campus features 73 classrooms, 65 equipped with e-learning facilities, including LED projectors, and 8 with

interactive smart boards. Six seminar halls and 8 individual studios support departmental activities, while 82 state-of-the-art laboratories and a Central Computing Facility with 128 computers enhance practical learning. A 1000-seat auditorium hosts various events, complemented by informal gathering spaces and landscaped areas. Faculty rooms across academic blocks promote student-faculty interactions, fostering collaborative learning. Administrative amenities include two conference rooms, examination management, and a canteen. Essential student services such as medical and counseling facilities are provided, alongside residential accommodation across 12 blocks. The campus design emphasizes student engagement, with the APJ park serving as a hub for outdoor activities and cultural events. Overall, the infrastructure caters to academic, social, and personal development, ensuring a holistic educational experience for students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/ccf , https://tkmce.ac.in/hostel-facility

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

Sports facilities:

? The institution makes sure that there are numerous sporting facilities available for the staff and students' physical and mental well-being. The Department of Physical Education mainly focuses to maximise student involvement in athletic activities and to foster a good attitude among students and staff toward the role that games and sports play in people's overall well-being. The Department organises the TKM fraternity's annual sports meet and regularly schedules student training sessions and playoffs. Additionally, it makes it easier for students to compete in college, intercollegiate, and university-level sporting events. To find and shortlist students for college sports teams competing in intercollegiate tournaments, there are periodic selection trials and camps. ? Institution also provides well equipped gymnasium with most modern multi equipments where students and staffs can use it for improving their physical and mental health. It also provides adequate training facilities for students involved in

sports. ? Department of physical education with the support of experts conduct international yoga day annually. Students get training in aerobics and basic yoga exercises through different sessions conducted annually.

Facilities for cultural activities: ? For cultural activities the college has an indoor auditorium with advanced audio and video facilities which can accommodate nearly 2000 persons. ? Also, an open ground that can be used for many cultural and technical fests is available which can accommodate a large audience of 1000 people. ? Seminar halls are also available which can be used for small gatherings.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/facilities-pe.php

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

73

File Description	Documents
Upload any additional information	View File
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)

178.28

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)

The Library transactions are fully automated using Library Management Software-KOHA. Automation covers the entire gamut of library activities such as acquisition, circulation, cataloguing etc. The Online Access Public Catalogue (OPAC) of KOHA is plugged into the college portal and can be accessed worldwide. Online search, renewal, reservation, and book purchase recommendation in Koha facilitates the optimum usage of library resources by Divyangjan students.

TKMCE Central Library was a pioneer in Library Automation way back in 2004 by using SOUL (Software for University Libraries), a state-of-the-art integrated library management software designed and developed by the INFLIBNET centre. In 2014, the library was automated using KOHA (proprietary to open source). Further, an upgradation of KOHA was completed in 2020.

The application of barcode technology is also used for speedy book circulation. Digital library of twenty PCs was also arranged in the library for this purpose.

The institution's digital repository has been customized using Dspace, open source software. The contents include thesis, project reports, faculty publications, e-books, question bank etc.

Remote access portal and OPAC are converted into QR (Quick Response) codes and placed at strategic points in the institution.

The institution has decided to implement RFID (Radio frequency identification) in the library.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.tkmce.ac.in/library-digital.php

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

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)

22.05

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

135

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

IT infrastructure has been widely spread across our campus with a very high-speed robust network backbone. All Computers in this campus are equipped with 10/100/1000 Mbps LAN connection. All computing labs of every department, all classrooms, the central library, all department libraries, and offices are connected to Campus Networking Centre (CNC) through Optical Fibre or CAT 6 cable. Our computer network is built on DLINK's switching platform with the backbone running on 1Gbpsat present. 2000+ IP enabled devices areconnected to this fast network. All network switches in core and distribution areas have SFP port for OFC uplink.? Switch Models such as D-Link 3620, 3120, 1210, 3160, etc are used to satisfy the networking requirements. The previous 10/100 Mbps LAN was upgraded to 10/100/1000 Mbps.

Over 50 numbers of Wi-Fi access points are positioned across the campus to facilitate internet access to our students, faculty, and guests while they are inside the campus. Ruijie Wi-Fi controller is used for authenticating and centralized controlling of all access points. Seamless internet access has been given to students through Hotspots and a well-planned Wi-Fi network in Hostels. And Authentication of their devices is done through MAC filtering.

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

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4009	2276

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on A. ?50 Mbps

campus

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

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

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL
List of facilities for e-content development (Data Template)	View File

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)

196.99

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.

TKM College of Engineering Kollam is actively pursuing continuous improvement to address emerging technological advancements. The institution plans to enhance existing infrastructure and expand interdisciplinary platforms. In the next five years, the college aims to develop a centralized computing and interdisciplinary research facility under the RUSA fund, enhancing research

capabilities. Additionally, the Innovation and Entrepreneurship Development Cell will expand to include more space for business incubations.

A new department block for the Architecture branch will elevate it to a center of excellence, incorporating modern facilities for architecture education. The college also plans to construct a grand convention center accommodating 3,000 people, marking an important milestone.

To address classroom needs, a new classroom complex will be built, and Diamond Jubilee hostels will cater to increased student intake. The examination center will be expanded to facilitate efficient exams and evaluation procedures for the college's autonomous status.

The Computer Science department will gain a new laboratory with modern systems and software for research. Various departments will receive modernized tools for research and development, and new laboratories for research in specific areas such as solar energy, geo-environmental and water resources engineering, tribology, composites, material testing, and thermal analysis will be established.

Maintenance of existing laboratories will include minor civil works. Additionally, a technology business incubator under the Institution's Innovation Cell (IIC) of the Ministry of Education will be set up. TKMCE is among 49 institutions selected across India for establishing an AICTE IDEA lab.

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

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

1097

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

30

File Description	Documents
Upload any additional information	View File
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://tkmce.ac.in/campus.php
Details of capability development and schemes	View File
Any additional information	View File

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

1039

File Description	Documents
Any additional information	View File
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	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

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

438

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

27

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

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

755

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

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

37

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

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

The College Council serves as the paramount governing body within the institution, composed of representatives elected from among the student body, faculty, and administration. It is vested with the authority to adjudicate disciplinary matters and uphold the standards of conduct within the college community.

The College Union, comprising delegates from each academic discipline and cohort, operates under the principles of gender equity and inclusivity. It assumes responsibility for deliberating upon and authorizing a wide spectrum of academic, co-curricular, and extracurricular activities within the college. Decisions made by this elected body are reached through consensus, ensuring the collective endorsement of the student populace.

Moreover, the college actively engages students in societal outreach through initiatives such as the National Service Scheme (NSS), Bumithrasena, and STEPS. These endeavors underscore the institution's commitment to leveraging technical expertise in addressing pressing social issues, thereby instilling in students a sense of civic responsibility and altruism.

Extracurricular activities, managed by the Physical Education Department and student clubs, complement academic pursuits. Arts and cultural events, integral to the academic calendar, foster a vibrant campus community and encourage holistic student development. This multifaceted approach underscores the institution's commitment to nurturing well-rounded individuals prepared for the challenges of a dynamic world.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/campus.php

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

20

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	View File

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 Alumni Association, duly registered under the Travancore-Cochin Act on November 20, 2013, operates both within the campus premises and through chapters established worldwide. An annual meeting convenes on January 26th, drawing a consistent attendance of over a thousand in-person participants alongside virtual attendees.

The Association plays a pivotal role in advancing the institution's objectives through various contributions. This includes endowing alumni merits and proficiency awards, as well as scholarships such as the MCM, generously provided by distinct alumni chapters such as those in Kuwait and the UAE. Furthermore, the Association actively supports the college's societal engagement endeavors, such as the "Back to School" and "Back to Home" initiatives. The Alumni chapters and alumni batches provided laptops to students for their online classes. Moreover, the Association is deeply involved in student mentorship, providing financial backing for both curricular and extracurricular activities. Such multifaceted support exemplifies the enduring commitment of the alumni community to the advancement and welfare of their alma mater. Alumni during their annual get together meetings contribute toward the MCM scholarships, Merit evening awards, Financial assistance for setting up infrastructure and and financial assistance for student participation in national competitions.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://globalalumni.tkmce.ac.in/

5.4.2 - Alumni's financial contribution during the year A. ? 15 Lakhs

File Description	Documents
Upload any additional information	View File

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 institution stands out for its well-defined organizational structure and effective leadership, ensuring robust governance. The Governing Body (GB), comprising members from the TKM Institution Trust, the Government of Kerala, and the AICTE, holds paramount authority in college administration. Chaired by the TKM Trust Chairman, the GB's ex-officio secretary is the college Principal. Annually, the GB convenes to craft policy statements, development plans, budget recommendations, and staff appointments in line with regulatory agency guidelines.

Senior leadership actively fosters the academic and administrative growth of faculty members through engagement and empowerment across various spheres. Faculty involvement in institutional governance is pivotal for realizing the institution's mission and vision. Newly onboarded faculty undergo comprehensive induction training to prepare them for their roles.

Moreover, the institution has instituted various committees based on statutory recommendations. These committees convene regularly to ensure decision-making aligned with institutional objectives. They collectively contribute to the realization of the institution's vision through its mission, covering aspects such as planning, assessment, quality improvement, research, student affairs, and library management.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/govern.php

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

Our mission and vision focus on decentralizing power and encouraging faculty involvement in institutional governance. Here's how this is accomplished:

College Planning and Evaluation Committee: This committee implements the Governing Body's (GB) recommendations, manages the annual budget, and formulates the institutional development plan.

Institute Level: The Principal, complying with University and AICTE guidelines, oversees academic administration. Regular

meetings with the Deans and HODs Council discuss teaching, research, industry collaborations, co-curricular activities, and outreach programs. Additional committees such as IQAC, Examination Cell, Research & IPR Council, and others support the institute's academic and administrative functions.

Department Level: The Head of Department is responsible for academic management with the help of committees like the Department Quality Assurance Cell, Department Management Committee, and others. These committees focus on maintaining educational quality.

Participative Leadership in Administration: Administrative assistants oversee general office activities, while independent committees supervise various administrative operations across departments.

Participative Leadership in Academics: At the institute level, the IQAC, oversees academic activities. Departmentally, faculty serve as HoD, academic coordinators, committee members, aiding in regular academic operations.

Participative Leadership in Student Support Systems: Faculty advisors mentor groups of 35-40 students, offering academic guidance. Additionally, faculty lead student-focused committees, support co-curricular and extracurricular activities.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/committee.php

6.2 - Strategy Development and Deployment

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

Our institute's strategic development plan focuses on advancing teaching, research, and extension activities, aligning with our vision and mission. It sets both short and long term goals, addressing industry and societal needs.

Human Resource Management: Faculty and staff recruitment and pay scale follows AICTE guidelines and Kerala Government policies, with a board consisting representatives from the Kerala Government, APJAKTU, and external experts.

Industry Interaction and Collaboration: Partnerships with leading universities through MoUs enhance industry connections, providing expert lectures, certificate courses, industry-related projects, research centers, and student internships.

Research and Development: The institute supports faculty research through the AICTE QIP initiative, earning recognition as a QIP research center by the Ministry of Education. Faculty members supervise Ph.D. research scholars.

Teaching and Learning: Teaching and learning processes are evaluated by course committees and feedback from stakeholders. Students are encouraged to engage in conferences, workshops etc. We also promote e-learning, study tours, and industry visits. During the COVIDpandemic, the institute seamlessly transitioned to online teaching, using online platforms like Moodle.

Library, ICT, E-Governance: The library provides e-learning resources and journal access. Infrastructure is updated regularly, and e-governance is used to streamline administration, teaching, learning, library services, examinations, student admissions and financial operations.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.tkmce.ac.in/planning.php
Upload any additional information	View File

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.

Our institute's strategic development plan focuses on advancing teaching, research, and extension activities, aligning with our

vision and mission. It sets both short and long term goals, addressing industry and societal needs.

Human Resource Management: Faculty and staff recruitment and pay scale follows AICTE guidelines and Kerala Government policies, with a board consisting of representatives from the Kerala Government, APJAKTU, and external experts.

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File Description	Documents
Paste link to Organogram on the institution webpage	https://tkmce.ac.in/uploads/Decentralized%20structure%20of%20the%20institution%20-%200Organogram.pdf
Upload any additional information	View File
Paste link for additional Information	https://drive.google.com/file/d/1z3yldUncG9mVkCbDZdhkXR6-GBLjohTs/view?usp=sharing

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) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

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

The institution prioritizes teacher growth and supports staff well-being through comprehensive welfare programs and feedback mechanisms.

Welfare Measures:

Health: Provides life and group insurance, medical reimbursement, maternity leave (180 days), paternity leave (10 days), and commuted leave.

Education: Offers full-time research opportunities under AICTE's QIP scheme, seed grants for research, incentives for SCI journal

publications, financial support for faculty development, and soft-skill training for non-teaching staff.

Monetary: Includes provident fund, gratuity, pension, family pension, travel concessions (LTC), festival advances, and festival allowances.

Other Benefits: Provides on-campus facilities for counseling, medical services, sports, yoga, a gym, and recreation trips. Additional amenities include a staff club, ATM, canteen, bus service, and guest house access.

Feedback Mechanisms:

Student Evaluation of Teachers: Mid-semester and end-semester feedback collected via the academic management system, with faculty evaluated on a 1-5 scale.

Class Committee Meetings: These meetings, held at the start of the semester and after internal exams, include department heads, senior advisors, teaching faculty, and student representatives. They address syllabus coverage, results analysis, and general feedback.

Career Advancement Scheme (CAS): Faculty are evaluated for promotion based on academic achievements and co-curricular/extra-curricular contributions, following AICTE guidelines.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.tkmce.ac.in/committee.php

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

16

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

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

30

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

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.)

212

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The institution prioritizes teacher growth and supports staff well-being through comprehensive welfare programs and feedback mechanisms.

Welfare Measures:

Health: Provides life and group insurance, medical reimbursement, maternity leave (180 days), paternity leave (10 days), and commuted leave.

Education: Offers full-time research opportunities under AICTE's QIP scheme, seed grants for research, incentives for SCI journal publications, financial support for faculty development, and soft-skill training for non-teaching staff.

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Career Advancement Scheme (CAS): Faculty are evaluated for promotion based on academic achievements and co-curricular/extra-curricular contributions, following AICTE guidelines.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/audit-report.php

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)

403.400

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

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

The college's financial resources come from three key sources: Government, Non-Government, and the TKM Trust.

1. Government (85-90%): As an aided college, government funds cover salaries for permanent and guest faculty, as well as other costs like tuition, student scholarships, and research grants. Funding agencies include AICTE, UGC, CERD, DST-FIST, and others.

2. Non-Government (1-3%): This revenue stream includes financial support from alumni, the Parent-Teacher Association (PTA), and private donations from companies or philanthropists.

3. TKM College Trust (7-14%): The trust to infrastructure development, software procurement, guest faculty salaries, laboratory and campus maintenance.

The college follows a structured budget process. The Principal issues a circular to department heads for budget proposals, which are then submitted to the College Planning Board for review. Afterward, the College Governing Body gives final approval. The process is completed by March 31st each year.

Purchasing is managed through central and departmental purchase committees. They follow a structured process: obtaining purchase intent, final approval, placing orders, receiving items, and processing payments. The institution conducts internal audits by a Chartered Accountant firm, and external audits by the DTE and the Office of the Accountant General, ensuring financial transparency. The audited statements are published on the college website.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/audit-report.php

6.5 - Internal Quality Assurance System

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

The Internal Quality Assurance Cell (IQAC), established in 2015, is crucial to institutionalizing quality assurance strategies. Following NAAC guidelines, its diverse membership—comprising the Principal, college trust members, faculty, administrative officers, local representatives, industrialists, and alumni—works collaboratively to enhance educational quality and resource mobilization.

The UGC granted TKM College of Engineering autonomous status for 10 years starting from the academic year 2022-23 (Order No. F.22-1/2022(AC), dated 26/5/2022). Approval from APJAKTU was secured (U.O. no. KTU/ASST11(ADMIN)/3212/2022, dated 02/09/2022). Preparations included constituting the Academic Council and Finance Committee, forming various Boards of Studies, and appointing Dr. Anu V. Thomas as Controller of Examinations. The college office was reorganized with a General Administration Division and an Examination wing. Expert consultations were held, and an academic management system was implemented. The academic and examination calendars were prepared and verified by the IQAC.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/iqac-breif

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

The IQAC ensure all departmental activities comply with the institute's academic calendar, through Department Quality Assurance Cell (DQAC). Provides orientation on OBE, curriculum, and the Academic Management System at semester start through advisory meetings or induction programs. Supervise course delivery based on Course Outcomes and Bloom's Taxonomy using AMS. Define assessment tools and processes for continuous evaluation, crucial for OBE. Coordinate with the Examination Cell for smooth internal exams. Monitor student learning in real-time via AMS and course committee meetings, organizing special programs for advanced and slow learners. Perform result analysis and implement remedial actions for improvement. Track mid-term and end-term feedback for faculty evaluation through AMS and enhance teaching processes. Collect anonymous feedback on curriculum, courses, and facilities from faculty, students, and stakeholders, taking corrective actions documented in Action Taken Reports by IQAC.

The IQAC monitors the teaching learning process conducting two internal academic audits by the start and at the end of each semester. The detailed academic calendar and audit sheets are attached. The DQAC oversees course plans and reviews question papers to ensure continuous evaluation.

Parents and students can track academic progress through Etlab with dedicated login credentials. Student feedback is collected mid-term and at the end of the term to evaluate teaching effectiveness.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/audit-report.php

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	https://tkmce.ac.in/igac-agar-report
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Gender equity is a cornerstone of our college's ethos, evident through a multitude of initiatives aimed at fostering an inclusive and supportive educational environment. Equal access to education is ensured through transparent admission processes and scholarships available to all students irrespective of gender. Faculty diversity is actively promoted, with measures in place to address unconscious biases in hiring and mentorship programs tailored to support the advancement of women in academia. Gender-sensitive policies are rigorously enforced, providing resources for reporting and addressing discrimination, harassment, and violence on campus.

Empowerment programs play a pivotal role in connecting female students with successful professionals and alumni, while workshops and seminars focus on women's leadership and career development. The Women's Cell, spearheaded by senior faculty, is dedicated to enhancing the self-esteem and self-confidence of female students and faculty members, advocating for their welfare, and ensuring their active participation in all academic and co-curricular activities.

Furthermore, initiatives such as the observance of the UN International Day for the Elimination of Violence Against Women and workshops on empowerment underscore the college's commitment to raising awareness about crucial gender-related issues. Through these concerted efforts, the college strives to create a campus culture that not only promotes gender equity but also empowers women to excel in all facets of their academic journey and

personal development, ultimately contributing to a more inclusive and supportive community.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://docs.google.com/document/d/1yF7bLDJC7jhvWS3dVNEJJfwFFGyTe-U8/edit?usp=drive_link&oid=107308393886640451869&rtpof=true&sd=true

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy plant Wheeling to the Grid energy conservation power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

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)

T K M College of Engineering demonstrates a strong commitment to environmental sustainability through comprehensive waste management facilities aligned with international standards. Solid waste management follows a systematic approach, with segregation at the source and strategically placed bins for biodegradable and non-biodegradable waste. The Green Cell conducts awareness programs to educate students and staff on waste segregation.

Biomedical waste disposal adheres strictly to international standards. E-waste management follows established protocols for environmentally friendly handling, with awareness campaigns organized by the Green Cell.

A comprehensive recycling system is promoted, with educational programs and recycling drives organized by the Green Cell. Hazardous chemicals and radioactive waste are managed diligently.

Furthermore, the Green Cell's initiatives include tree planting,

maintenance, and a biogas plant installation for the college canteen, contributing to campus sustainability. Their focus on cleanliness and awareness aligns with the institution's environmental responsibility.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
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 **A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: **A. Any 4 or All of the above**

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

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

7.1.6 - Quality audits on environment and energy 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:

A. Any 4 or all of the above

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

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,

A. Any 4 or all of the above

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	View File
Details of the software procured for providing assistance	View File
Any other relevant information	View File

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).

TKM College of Engineering exemplifies a dedication to fostering inclusivity and harmony across diverse dimensions. Embracing cultural, religious, and regional diversity, the institution actively celebrates various festivals, fostering a sense of belonging among students from different backgrounds.

Recognizing the importance of cultural and religious observances, the college grants holidays for significant events, respecting the diversity of its student body. Moreover, the institution's affordable fee structure reduces financial barriers to education, promoting socio-economic inclusivity and equality.

Adhering strictly to reservation policies, the college ensures opportunities for minorities and underprivileged communities, promoting social equity and leveling the educational playing field. In times of crisis, such as natural disasters, TKM extends aid to affected communities, demonstrating solidarity and empathy.

During the COVID-19 pandemic, the college provided support by distributing gadgets for distance learning, ensuring accessibility to education for all students. Additionally, cultural exchange programs promote interactions among students from diverse linguistic backgrounds, fostering understanding and appreciation for diversity. Under the American Society for Civil Engineers (ASC), a lecture series on Vastu and yoga was conducted. SPICMACAY (Society for the Promotion of Indian Classical Music and Culture Amongst Youth) has been active at the college since 2010, regularly hosting events, the most recent being a Manipuri

cultural program in March 2023.

These initiatives underscore TKM College's commitment to inclusive education and societal harmony, creating an environment where every individual feels valued and respected.

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:

Established in 1958 by Janab Thangal Kunju Musaliar, TKM College of Engineering is a trailblazer in engineering education, emphasizing holistic student development and community service. It earned top honors in 2021 INDIA TODAY rating for its value-for-money education, notably through initiatives like the Merit-Cum-Means scholarship, benefiting over 500 students with grants exceeding 80 lakhs in the past five years.

With the largest student intake in Kerala, TKM consistently attracts top talent, aided by its effective advisory system nurturing enduring student-faculty bonds. The institution's alumni network spans 18 chapters globally, actively supporting initiatives such as the 'BACK TO HOME' project, recognized by the United Nations.

TKM celebrates academic excellence through events like the annual merit evening, while its Career Guidance and Placement Unit ensures robust student placements, with figures reaching 824 in 2022. Advocating for honors degrees since 2015, prioritizes student excellence and welfare.

Recent milestones, including autonomy status and a commitment to affordable education, underscore dedication to student and societal welfare. By admitting students from the Kerala government's rank list, the college offers education at a nominal fee, striving to make quality education accessible to all. Through these efforts, TKM College continues to uphold its legacy of excellence and service.

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

A. All of the above

File Description	Documents
Code of Ethics - policy document	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

Celebration of days of National/International commemoration, events and festivals

Commemorative days, events and festivals are observed/celebrated by various clubs and societies. A few are listed below

- **International**
- **International Yoga Day**

- International Women's Day
- Men's Day
- World Environment Day
- World Water Day
- Human Rights Day
- Hiroshima Day
- World Health Day
- International day of the Girl Child

- National

- Independence Day
- Republic Day
- Gandhi Jayanthi
- Constitution day
- National Unity Day
- Children's Day
- Engineer's Day
- Reading week
- Nutrition week
- Teacher's Day
- NSS Day
- National sports day
- National cancer awareness day

- **Festivals**
- **Holi**
- **Onam**
- **Christmas**

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 Practice 1: Institute Social Outreach Programs

Objectives: TKMCE's social outreach programs aim to equip students as global citizens by addressing real-world issues, providing technical support, linking student initiatives with voluntary work, and fostering social commitment.

Context: With a history of providing aid, TKMCE's Societal Extension Activities Cell tackles societal challenges.

Practice: Initiatives include disaster relief and addressing COVID-19 challenges through projects like sustainable housing.

Successes: Achievements include MoUs with Rebuild Kerala, international participation, and national awards. The STEPS program has yielded positive outcomes.

Challenges and Resources: Time constraints and fundraising challenges exist, yet internal feedback highlights positive

impacts on student well-being.

Best Practice 2: Holistic Student Development Programs

Objectives: These programs aim to enhance mental and physical fitness, foster critical thinking, and support socio-economically disadvantaged students.

Context: The COVID-19 shift to online learning emphasized the need for holistic development.

Practice: Activities include fitness challenges, counselling sessions, quiz contests, and skill development workshops.

Successes: Increased sports participation, higher placement rates, and positive student feedback showcase the impact on overall development.

Challenges and Resources: Adapting to online platforms and academic balance pose challenges, but feedback indicates positive growth in students' holistic development.

File Description	Documents
Best practices in the Institutional website	https://tkmce.ac.in/igac-best-practices
Any other relevant information	https://drive.google.com/file/d/1BoBgoX75z88QZS5ltF6_lEIrVMA4JILb/view?usp=drive_link

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)

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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.

TKM College of Engineering, is now an autonomous College, affiliated to APJ Abdul Kalam Technological University (APJAKTU). The discussions on the new curriculum was initiated with the submission of application to UGC for autonomy. The curriculum and syllabi were prepared spanning all twelve Graduate attributes (UG Programme Outcomes) and the identified PSOs of each programme. This was done as the curricular gap identification and the additional programmes to bridge the gap was being carried out for the past several years,

- The final curriculum with much flexibility could not be commenced for the 2022 admission students due to the time elapsed by the University in carrying out other processes.
- The 2019 Scheme curriculum followed the University was adopted by the College, but the academic procedures are carried out by the College indogeneously.
- All the 21 programmes have the new courses with the evaluation conducted by the College under the new Controller of Examination and approved by the new academic council
- The global goals POs based on Knowledgewere aligned with the technical courses
- The skill based goals POs based on Skills were aligned to the practical courses and projects
- The attitude based goalsadopted through local needs is addressed by humanities and social based courses, assignments and projects.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://tkmce.ac.in/syllabus

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

21

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

19

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	View File
Any additional information	View File

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year**

20

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

25

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
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

The 2022 scheme B Tech curriculum includes several socially relevant courses under the category of Humanities and Social Sciences including management which accounts for 5% of the total credits. There are another set of Mandatory Non- credit courses which are oriented towards sustainability, Civic Sense, Disaster management and Safety. List of the courses:

- Life Skills
- Professional Communication
- Professional Ethics
- Sustainable Engineering
- Constitution of India
- Disaster Management
- Industrial Economics and Foreign Trade

- Management for Engineers
- Industrial Safety Engineering

Departments also offer Open Electives of interdisciplinary nature

- ENVIRONMENTAL IMPACT ASSESSMENT
- NATURAL DISASTERS AND MITIGATION
- ENVIRONMENTAL HEALTH AND SAFETY
- RENEWABLE ENERGY SYSTEMS
- ELECTRIC VEHICLES
- ENERGY MANAGEMENT

The curriculum achieves most of the sustainable development goals through these courses. The dissertation topics of B. Arch are also selected so that due importance is given to the environment and sustainability.

The motivational talks by IAS officers and senior police officials during the Student Induction Programme (SIP) for First year students, address the issues relevant to Universal Human Values and gender sensitization. The cross-cutting issues are also discussed through content beyond the syllabus. A sample curriculum is attached.

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

19

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	View File

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

1629

File Description	Documents
List of students enrolled	View File
Any additional information	View File

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

1118

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

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	NIL
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

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	NIL
Any additional information	View File

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

1104

File Description	Documents
Any additional information	View File
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)

344

File Description	Documents
Any additional information	View File
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 institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Identifying the learning capability level of each student is taken up as a joint effort by the faculty teaching the respective courses in the class as well as their faculty Advisory group. The challenge of diversity is reflected in two domains:

- Student Induction Program (SIP) is organized to facilitate a smooth transition from their home and school environment into the college and university environment through various discussions and activities.

- The advisory committee, class committee and course committee are functioning in all the departments to assess students' progress. After the first internal examination, a review between HoD, senior advisor, subject coordinators and student representatives in the class/course committee is done to assess the student's academic performance. Based on their performance, a classification under Excellent, Good, Average and at-risk categories is made to mentor them for improved performance.

Fast learners are allowed Minor projects, Honors, Final year projects, conferences, Web development, Internships, and MOOC courses.

Slow learners are offered Basic communication courses, Remedial, Bridge courses, Induction programs, Peer group learning, and Tutorials.

The Placement cell regularly provides the students with career guidance and training to equip them to secure a job during their term of study.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
15/09/2023	4009	223

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:

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

TKMCE strives to achieve excellence through holistic development of students.

Experiential learning:

- Hands-on training are provided in 82 laboratories with sophisticated and modern experimental arrangements
- Internships, technical competitions and workshops provide field exposure
- Industrial visits to companies, historical sites and tourism spots
- Technical fests are organised to develop the technical, managerial and cultural skills
- Diligent efforts are taken by various clubs and associations to nurture creativity, innovation, talents and social commitments

Participative learning:

- Flipped classroom, a form of blended learning integrates classroom activities with ICT tools
- Conferences, workshops and seminars
- Expert talks, TED Talks, debates & panel discussions
- Peer learning through mini projects and final year projects encourage shared learning

Problem solving methodologies: Students understand the concepts and learn to apply knowledge for solving real life problems

- Project works carries out by UG and PG students help them to explore real life problems and advancements in the area of their study
- Students are encouraged to apply for funded projects so that they are financially assisted in developing solutions and also make research publications through their work
- Case studies are presented in the classroom regarding the topic of discussion for linking theoretical knowledge and real life problems.

File Description	Documents
Upload any additional information	View File
Link for additional Information	NIL

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

Effective Teaching Learning is carried out in the College by judicious usage of ICT tools

- Campus Wifi supported by Central UPS helps uninterrupted data

transactions for both faculty and students

- All 73 classrooms are provided with Campus Wifi as well as projector facility
- Interactive Boards are also provided in 14 classrooms from the TEQIP fund and PTA.
- The Seminar Halls are also provided with ICT facilities
- The ASAP Room has a video recording studio facility which has helped the faculty to create online resources for sharing with students
- Students are also supported in the campus and Hostel with the Wifi which enables them to undertake MOOC courses/NPTEL/SWAYAM courses for Minors/Honours/Activity points
- The academic Management System ETLAB enables the preparation of lecture planning, delivery of lectures, attendance entry, assignments, quizzes and internal evaluations.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	NIL
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

180

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

The Academic calendar prescribes the schedule for all activities of each semester including Sports, Arts festivals, Special Day Celebrations, Technical Fests, Class committee meetings etc. .

- The number of working days is strictly followed as per the directive issued by Dean Academics after compensating for any loss of day due to local holidays.
- The dates for every activity of the clubs like IEEE, IE(I), NSS etc are also collected while preparing the Academic Calendar to facilitate the holistic growth of students.
- Class Committee meetings are scheduled and feedback are collected from the students and faculty
- The Continuous Internal Evaluation CIE process is scheduled in the calendar and conducted.
- The Central Examination Committee, led by the Principal and including representatives of all Departments, ensures timely publication of internal exam timetables and smooth conduct of all exams.
- At the end of the semester, the attendance and internal marks are published to the students in ETLAB. It is analysed by the Programme Assessment and Quality Improvement Committee (PAQIC) and once approved, uploaded as per schedule.

The external Auditor appointed ensures the compliance of the schedule.

<https://tkmce.ac.in/academic-calendar>

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

223

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	View File

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

82

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	View File

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

15

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

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

26

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	View File

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

197

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	View File

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

Every Semester, there are two internal assessments conducted in a centralized manner.

Examination Cell: The superintendent along with committee members representing all Departments supervises the following activities

- Conduct of internal and external examination
- Assignment of invigilation duty and other works related to examination cell
- Examination hall allotment and overall seating arrangement
- Conduct of Retest as per university guidelines and institution policy

Examination Squad

- An internal examination squad working for the effective conduct of internal examinations. Observer and external

squad is posted by university for end semester examination.

- The squad inspects cases of malpractice and metes out disciplinary action as deemed necessary
- Examination halls are under CCTV surveillance to monitor the smooth conduct of exams.

Assignment, Seminars and Projects

- Assignments are done as a group or an individual which provides opportunity to learn, practice and demonstrate the achievement of learning goals intended through a course.
- Seminar and projects guarantee participative learning which prompts students to gather additional informational and put in to practice. This also enhance the various types of communication skills, interpersonal skills and technical skills. The evaluation is performed as per the published rubrics.
- The valuation is done in a time bound manner and the marks are available in ETLAB.
- <https://tkmce.ac.in/examinations>

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/examinations

2.6 - Student Performance and Learning Outcomes

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

The Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) for all Programmes are stated and displayed in the website. The Course Outcomes are prescribed for all courses in 2019 Scheme Curriculum of the University. The Subject Group

verifies and approves the set of COs after required modifications. They are then made available in the Academic management system -ETLAB for reference to Students and Faculty.

The format of the COs of a Course is attached.

CODE

COURSE NAME

CATEGORY

L

T

P

CREDIT

EET206

DIGITAL ELECTRONICS

PCC

3

1

0

4

Preamble: Nil

Prerequisite: Nil

Course Outcomes: After the completion of the course, the student will be able to:

CO 1

Perform arithmetic operations in decimal, binary, octal and hexadecimal number systems

CO 2

Design and implement combinational logic circuits.

CO 3

Design and implement sequential logic circuits.

CO 4

Compare the operation of various analog-to-digital and digital-to-analog conversion circuits.

CO 5

Explain the basic concepts of programmable logic devices and VHDL.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://tkmce.ac.in/ug-civil.php

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

Attainment of COs can be measured using direct and indirect assessment tools. They include internal assessments, assignments, quizzes, seminars, projects etc. Indirect CO attainment is calculated by Course Exit Survey. External CO attainment is calculated from the end semester university examination. The weighted sum of Internal and External CO evaluation indices, are in the ratio of 60:40.

The level of attainment of CO is decided at the PAQIC. A sample of the level definition is -

- Level 3 - More than 70% of the students secure more than 60%

marks

- Level 2 - Between 60 and 70% of the students secure more than 60% marks
- Level 1 - Between 50 and 60% of the students secure more than 60% marks
- Level 0 - Less than 50% of the students secure more than 60% marks

$$\text{COcourse} = 0.8 * \text{CODirect} + 0.2 * \text{COIndirect}$$

The CO-PO correlations are mapped at different levels (1/2/3) for each course.

The POs are evaluated as

$$\text{PO Contribution from a course} = (\text{COcourse Attainment Level} * \text{Mapping}) / 3$$

Po attainment is calculated from the complete contribution of all the courses in the curriculum.

$$\text{POi} = (\sum \text{POi Contribution from Mapped courses}) / \text{No of mapped course}$$

The PSO attainment calculations are also very similar to PO attainment calculation.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	NIL

2.6.3 - Pass Percentage of students

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

859

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	NIL

2.7 - Student Satisfaction Survey

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

<https://tkmce.ac.in/igac-student-satisfaction-survey>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

TKM College of Engineering has always promoted Research and Development activities with a clear cut Research Policy. A dedicated Reserach Dean is appointed to cater to the requirements of the Research Community. The Reserach Council consisting of the Research spearheading faculty representing all Departments supportsall the activities encouraging every faculty, staff and student involved in innovative activities of the Institution. The Institution Innovation Cell is also involved with the projectdevelopment and patent creation.

The facility created for the research activity during the year are

- Campus wide License for MATLAB software worth Rs 16 Lakhs - enabling mathematical modelling, simulation and product development in all Departments
- Upgradation of the IDEA lab and FAB Lab for product development
- Building of RUSA supported infrastructure for Reserach , Entreprenuership and TBI activities
- Encourage maximum participation by faculty for Research Seed Moneyand project funding application by CERD,

- Encourage maximum submission of papers at Conference and registration

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://tkmce.ac.in/uploads/rules/8%20Research%20Policy.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)

20.68

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	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

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

1

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	View File

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)

267.77

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

16

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

45

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

7

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	NIL
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 institution has a vibrant ecosystem for innovations, Entrepreneurship, Incubation and Startups being headed by 4 different cells of our institute : IIC (Institution's Innovation Council), IEDC (Innovation & Entrepreneurship Development Centre), AICTE-IDEA Lab and One District One Idea (ODOI) MSME innovation cluster.

Achievement's of IIC

- Badged in performer brand of ARIIA Ranking 2021
- Awarded 4-star rating by MOE
- 5 lakh grant form IIC, MoE for a student start-up

Achievements of IEDC

- 24 Incubated Start-up have become registered companies
- 23 Start-ups incubated in IEDC but not registered

AICTE-IDEA

- TKMCE among 49 peer institutions pan India that bagged AICTE grant to set up IDEA Lab in 2021.
- Modern facilities will soon replace the traditional mechanical workshop.
- The total project cost is estimated at 82.48 lakh Indian Rupees, 40 percent of which will be funded by AICTE and remaining will be funded by industry/institute. The project will be implemented in two years.

TKMCE has been awarded One District One Idea (ODOI) MSME Innovation Cluster for Kollam District. One District-One Idea (ODOI) MSME Innovation Clusters is an innovation challenge for manufacturing clusters and micro-enterprise clusters. K-DISC (Kerala Development and Innovation Strategic Council) provide seed money for the innovation component and technology support for fostering innovation.

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

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

3

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

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

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

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

22

File Description	Documents
URL to the research page on HEI website	https://tkmce.ac.in/research-supervisors.php
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

0.7

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

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

0.51

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

308

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

9

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

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

54.12986

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	View File
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

50.85051

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
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

TKMCE has several professional bodies which work towards the holistic development of the students. They are NSS, IEEE, IE(I), SAE etc. The NSS Units 174 & 262 of TKM College of Engineering initiated a series of impactful events to foster social awareness, community engagement, and personal development among its students and volunteers. It stands as a testament to the power of collective action in addressing the pressing challenges faced by societies. NSS Units 174 & 262 of TKM College of Engineering along with IMA Blood Bank Kollam and Tranvancore Medical College Hospital, Kollam for organising medical camp and blood donation camp.

The NSS Units 174 & 262 of TKM College of Engineering organized PRAVAAH, a 3- day all Kerala event endeavored to achieve the impossibilities. The event aimed to envision a future India where dreams are boundless and the extraordinary thrives. It comprised of a total of 8 sub events including debates, talk sessions, quizzes, jam and competitions namely, Blinks, Ink tales, Clip Clash and many more. It succeeded in fostering a social bond and lifelong memories.

As a part of the World Environment Day, a tree planting activity was also organised at Harijan LP School, Kottamkara.

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

7

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

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)

38

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

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

150

File Description	Documents
Reports of the events	View File
Any additional information	View File

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

32

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

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)

77

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	View File

INFRASTRUCTURE AND LEARNING RESOURCES**4.1 - Physical Facilities**

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

The institute's infrastructure development aligns with AICTE and UGC norms, ensuring conducive academic environments. Spanning 16 acres, the campus features 73 classrooms, 65 equipped with e-learning facilities, including LED projectors, and 8 with interactive smart boards. Six seminar halls and 8 individual studios support departmental activities, while 82 state-of-the-art laboratories and a Central Computing Facility with 128 computers enhance practical learning. A 1000-seat auditorium hosts various events, complemented by informal gathering spaces and landscaped areas. Faculty rooms across academic blocks promote student-faculty interactions, fostering collaborative learning. Administrative amenities include two conference rooms, examination management, and a canteen. Essential student services such as medical and counseling

facilities are provided, alongside residential accommodation across 12 blocks. The campus design emphasizes student engagement, with the APJ park serving as a hub for outdoor activities and cultural events. Overall, the infrastructure caters to academic, social, and personal development, ensuring a holistic educational experience for students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/ccf , https://tkmce.ac.in/hostel-facility

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

Sports facilities:

? The institution makes sure that there are numerous sporting facilities available for the staff and students' physical and mental well-being. The Department of Physical Education mainly focuses to maximise student involvement in athletic activities and to foster a good attitude among students and staff toward the role that games and sports play in people's overall well-being. The Department organises the TKM fraternity's annual sports meet and regularly schedules student training sessions and playoffs. Additionally, it makes it easier for students to compete in college, intercollegiate, and university-level sporting events. To find and shortlist students for college sports teams competing in intercollegiate tournaments, there are periodic selection trials and camps. ? Institution also provides well equipped gymnasium with most modern multi equipments where students and staffs can use it for improving their physical and mental health. It also provides adequate training facilities for students involved in sports. ? Department of physical education with the support of experts conduct international yoga day annually. Students get training in aerobics and basic yoga exercises through different sessions conducted annually.

Facilities for cultural activities: ? For cultural activities the college has an indoor auditorium with advanced audio and video facilities which can accommodate nearly 2000 persons. ? Also, an open ground that can be used for many cultural and

technical fests is available which can accommodate a large audience of 1000 people. ? Seminar halls are also available which can be used for small gatherings.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/facilities-pe.php

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

73

File Description	Documents
Upload any additional information	View File
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)

178.28

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)

The Library transactions are fully automated using Library Management Software-KOHA. Automation covers the entire gamut of library activities such as acquisition, circulation, cataloguing etc. The Online Access Public Catalogue (OPAC) of

KOHA is plugged into the college portal and can be accessed worldwide. Online search, renewal, reservation, and book purchase recommendation in Koha facilitates the optimum usage of library resources by Divyangjan students.

TKMCE Central Library was a pioneer in Library Automation way back in 2004 by using SOUL (Software for University Libraries), a state-of-the-art integrated library management software designed and developed by the INFLIBNET centre. In 2014, the library was automated using KOHA (proprietary to open source). Further, an upgradation of KOHA was completed in 2020.

The application of barcode technology is also used for speedy book circulation. Digital library of twenty PCs was also arranged in the library for this purpose.

The institution's digital repository has been customized using Dspace, open source software. The contents include thesis, project reports, faculty publications, e-books, question bank etc.

Remote access portal and OPAC are converted into QR (Quick Response) codes and placed at strategic points in the institution.

The institution has decided to implement RFID (Radio frequency identification) in the library.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.tkmce.ac.in/library-digital.php

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

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	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)

22.05

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

135

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

IT infrastructure has been widely spread across our campus with a very high-speed robust network backbone. All Computers in this campus are equipped with 10/100/1000 Mbps LAN connection. All computing labs of every department, all classrooms, the central library, all department libraries, and offices are connected to Campus Networking Centre (CNC) through Optical Fibre or CAT 6 cable. Our computer network is built on DLINK's

switching platform with the backbone running on 1Gbpsat present. 2000+ IP enabled devices are connected to this fast network. All network switches in core and distribution areas have SFP port for OFC uplink.? Switch Models such as D-Link 3620, 3120, 1210, 3160, etc are used to satisfy the networking requirements. The previous 10/100 Mbps LAN was upgraded to 10/100/1000 Mbps.

Over 50 numbers of Wi-Fi access points are positioned across the campus to facilitate internet access to our students, faculty, and guests while they are inside the campus. Ruijie Wi-Fi controller is used for authenticating and centralized controlling of all access points. Seamless internet access has been given to students through Hotspots and a well-planned Wi-Fi network in Hostels. And Authentication of their devices is done through MAC filtering.

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

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4009	2276

File Description	Documents
Upload any additional information	View File

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	View File

4.3.4 - Institution has facilities for e-content B. Any three of the above

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

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL
List of facilities for e-content development (Data Template)	View File

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)

196.99

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.

TKM College of Engineering Kollam is actively pursuing continuous improvement to address emerging technological advancements. The institution plans to enhance existing infrastructure and expand interdisciplinary platforms. In the next five years, the college aims to develop a centralized computing and interdisciplinary research facility under the RUSA fund, enhancing research capabilities. Additionally, the Innovation and Entrepreneurship Development Cell will expand to include more space for business incubations.

A new department block for the Architecture branch will elevate it to a center of excellence, incorporating modern facilities for architecture education. The college also plans to construct a grand convention center accommodating 3,000 people, marking an important milestone.

To address classroom needs, a new classroom complex will be built, and Diamond Jubilee hostels will cater to increased student intake. The examination center will be expanded to facilitate efficient exams and evaluation procedures for the college's autonomous status.

The Computer Science department will gain a new laboratory with modern systems and software for research. Various departments will receive modernized tools for research and development, and new laboratories for research in specific areas such as solar energy, geo-environmental and water resources engineering, tribology, composites, material testing, and thermal analysis will be established.

Maintenance of existing laboratories will include minor civil works. Additionally, a technology business incubator under the Institution's Innovation Cell (IIC) of the Ministry of Education will be set up. TKMCE is among 49 institutions selected across India for establishing an AICTE IDEA lab.

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

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

1097

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

30

File Description	Documents
Upload any additional information	View File
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://tkmce.ac.in/campus.php
Details of capability development and schemes	View File
Any additional information	View File

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

1039

File Description	Documents
Any additional information	View File
Number of students benefitted 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

A. All of the above

through appropriate committees

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression**5.2.1 - Number of outgoing students who got placement during the year**

438

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

27

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

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**

755

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

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

37

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

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

The College Council serves as the paramount governing body within the institution, composed of representatives elected from among the student body, faculty, and administration. It is vested with the authority to adjudicate disciplinary matters and uphold the standards of conduct within the college community.

The College Union, comprising delegates from each academic discipline and cohort, operates under the principles of gender equity and inclusivity. It assumes responsibility for deliberating upon and authorizing a wide spectrum of academic, co-curricular, and extracurricular activities within the college. Decisions made by this elected body are reached through consensus, ensuring the collective endorsement of the student populace.

Moreover, the college actively engages students in societal outreach through initiatives such as the National Service Scheme (NSS), Bumithrasena, and STEPS. These endeavors underscore the institution's commitment to leveraging technical expertise in addressing pressing social issues, thereby instilling in students a sense of civic responsibility and altruism.

Extracurricular activities, managed by the Physical Education Department and student clubs, complement academic pursuits. Arts and cultural events, integral to the academic calendar, foster a vibrant campus community and encourage holistic student development. This multifaceted approach underscores the institution's commitment to nurturing well-rounded individuals prepared for the challenges of a dynamic world.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/campus.php

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

20

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	View File

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 Alumni Association, duly registered under the Travancore-Cochin Act on November 20, 2013, operates both within the campus premises and through chapters established worldwide. An annual meeting convenes on January 26th, drawing a consistent attendance of over a thousand in-person participants alongside virtual attendees.

The Association plays a pivotal role in advancing the institution's objectives through various contributions. This includes endowing alumni merits and proficiency awards, as well as scholarships such as the MCM, generously provided by distinct alumni chapters such as those in Kuwait and the UAE. Furthermore, the Association actively supports the college's societal engagement endeavors, such as the "Back to School" and

"Back to Home" initiatives. The Alumni chapters and alumni batches provided laptops to students for their online classes. Moreover, the Association is deeply involved in student mentorship, providing financial backing for both curricular and extracurricular activities. Such multifaceted support exemplifies the enduring commitment of the alumni community to the advancement and welfare of their alma mater. Alumni during their annual get together meetings contribute toward the MCM scholarships, Merit evening awards, Financial assistance for setting up infrastructure and and financial assistance for student participation in national competitions.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://globalalumni.tkmce.ac.in/

5.4.2 - Alumni's financial contribution during the year

A. ? 15 Lakhs

File Description	Documents
Upload any additional information	View File

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 institution stands out for its well-defined organizational structure and effective leadership, ensuring robust governance. The Governing Body (GB), comprising members from the TKM Institution Trust, the Government of Kerala, and the AICTE, holds paramount authority in college administration. Chaired by the TKM Trust Chairman, the GB's ex-officio secretary is the college Principal. Annually, the GB convenes to craft policy statements, development plans, budget recommendations, and staff appointments in line with regulatory agency guidelines.

Senior leadership actively fosters the academic and administrative growth of faculty members through engagement and empowerment across various spheres. Faculty involvement in institutional governance is pivotal for realizing the

institution's mission and vision. Newly onboarded faculty undergo comprehensive induction training to prepare them for their roles.

Moreover, the institution has instituted various committees based on statutory recommendations. These committees convene regularly to ensure decision-making aligned with institutional objectives. They collectively contribute to the realization of the institution's vision through its mission, covering aspects such as planning, assessment, quality improvement, research, student affairs, and library management.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/govern.php

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

Our mission and vision focus on decentralizing power and encouraging faculty involvement in institutional governance. Here's how this is accomplished:

College Planning and Evaluation Committee: This committee implements the Governing Body's (GB) recommendations, manages the annual budget, and formulates the institutional development plan.

Institute Level: The Principal, complying with University and AICTE guidelines, oversees academic administration. Regular meetings with the Deans and HODs Council discuss teaching, research, industry collaborations, co-curricular activities, and outreach programs. Additional committees such as IQAC, Examination Cell, Research & IPR Council, and others support the institute's academic and administrative functions.

Department Level: The Head of Department is responsible for academic management with the help of committees like the Department Quality Assurance Cell, Department Management Committee, and others. These committees focus on maintaining educational quality.

Participative Leadership in Administration: Administrative

assistants oversee general office activities, while independent committees supervise various administrative operations across departments.

Participative Leadership in Academics: At the institute level, the IQAC, oversees academic activities. Departmentally, faculty serve as HoD, academic coordinators, committee members, aiding in regular academic operations.

Participative Leadership in Student Support Systems: Faculty advisors mentor groups of 35-40 students, offering academic guidance. Additionally, faculty lead student-focused committees, support co-curricular and extracurricular activities.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/committee.php

6.2 - Strategy Development and Deployment

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

Our institute's strategic development plan focuses on advancing teaching, research, and extension activities, aligning with our vision and mission. It sets both short and long term goals, addressing industry and societal needs.

Human Resource Management: Faculty and staff recruitment and pay scale follows AICTE guidelines and Kerala Government policies, with a board consisting representatives from the Kerala Government, APJAKTU, and external experts.

Industry Interaction and Collaboration: Partnerships with leading universities through MoUs enhance industry connections, providing expert lectures, certificate courses, industry-related projects, research centers, and student internships.

Research and Development: The institute supports faculty research through the AICTE QIP initiative, earning recognition as a QIP research center by the Ministry of Education. Faculty members supervise Ph.D. research scholars.

Teaching and Learning: Teaching and learning processes are evaluated by course committees and feedback from stakeholders. Students are encouraged to engage in conferences, workshops etc. We also promote e-learning, study tours, and industry visits. During the COVID pandemic, the institute seamlessly transitioned to online teaching, using online platforms like Moodle.

Library, ICT, E-Governance: The library provides e-learning resources and journal access. Infrastructure is updated regularly, and e-governance is used to streamline administration, teaching, learning, library services, examinations, student admissions and financial operations.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.tkmce.ac.in/planning.php
Upload any additional information	View File

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.

Our institute's strategic development plan focuses on advancing teaching, research, and extension activities, aligning with our vision and mission. It sets both short and long term goals, addressing industry and societal needs.

Human Resource Management: Faculty and staff recruitment and pay scale follows AICTE guidelines and Kerala Government policies, with a board consisting representatives from the Kerala Government, APJAKTU, and external experts.

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File Description	Documents
Paste link to Organogram on the institution webpage	https://tkmce.ac.in/uploads/Decentralized%20structure%20of%20the%20institution%20-%20Organogram.pdf
Upload any additional information	View File
Paste link for additional Information	https://drive.google.com/file/d/1z3yldUncG9mVkCbDZdhkXR6-GBLjohTs/view?usp=sharing

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) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

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

The institution prioritizes teacher growth and supports staff well-being through comprehensive welfare programs and feedback mechanisms.

Welfare Measures:

Health: Provides life and group insurance, medical reimbursement, maternity leave (180 days), paternity leave (10 days), and commuted leave.

Education: Offers full-time research opportunities under AICTE's QIP scheme, seed grants for research, incentives for SCI journal publications, financial support for faculty development, and soft-skill training for non-teaching staff.

Monetary: Includes provident fund, gratuity, pension, family pension, travel concessions (LTC), festival advances, and festival allowances.

Other Benefits: Provides on-campus facilities for counseling, medical services, sports, yoga, a gym, and recreation trips. Additional amenities include a staff club, ATM, canteen, bus service, and guest house access.

Feedback Mechanisms:

Student Evaluation of Teachers: Mid-semester and end-semester

feedback collected via the academic management system, with faculty evaluated on a 1-5 scale.

Class Committee Meetings: These meetings, held at the start of the semester and after internal exams, include department heads, senior advisors, teaching faculty, and student representatives. They address syllabus coverage, results analysis, and general feedback.

Career Advancement Scheme (CAS): Faculty are evaluated for promotion based on academic achievements and co-curricular/extra-curricular contributions, following AICTE guidelines.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.tkmce.ac.in/committee.php

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

16

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

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

30

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

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.)

212

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The institution prioritizes teacher growth and supports staff well-being through comprehensive welfare programs and feedback mechanisms.

Welfare Measures:

Health: Provides life and group insurance, medical reimbursement, maternity leave (180 days), paternity leave (10 days), and commuted leave.

Education: Offers full-time research opportunities under AICTE's QIP scheme, seed grants for research, incentives for SCI journal publications, financial support for faculty development, and soft-skill training for non-teaching staff.

Monetary: Includes provident fund, gratuity, pension, family

pension, travel concessions (LTC), festival advances, and festival allowances.

Other Benefits: Provides on-campus facilities for counseling, medical services, sports, yoga, a gym, and recreation trips. Additional amenities include a staff club, ATM, canteen, bus service, and guest house access.

Feedback Mechanisms:

Student Evaluation of Teachers: Mid-semester and end-semester feedback collected via the academic management system, with faculty evaluated on a 1-5 scale.

Class Committee Meetings: These meetings, held at the start of the semester and after internal exams, include department heads, senior advisors, teaching faculty, and student representatives. They address syllabus coverage, results analysis, and general feedback.

Career Advancement Scheme (CAS): Faculty are evaluated for promotion based on academic achievements and co-curricular/extra-curricular contributions, following AICTE guidelines.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/audit-report.php

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)

403.400

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

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

The college's financial resources come from three key sources: Government, Non-Government, and the TKM Trust.

1. Government (85-90%): As an aided college, government funds cover salaries for permanent and guest faculty, as well as other costs like tuition, student scholarships, and research grants. Funding agencies include AICTE, UGC, CERD, DST-FIST, and others.

2. Non-Government (1-3%): This revenue stream includes financial support from alumni, the Parent-Teacher Association (PTA), and private donations from companies or philanthropists.

3. TKM College Trust (7-14%): The trust to infrastructure development, software procurement, guest faculty salaries, laboratory and campus maintenance.

The college follows a structured budget process. The Principal issues a circular to department heads for budget proposals, which are then submitted to the College Planning Board for review. Afterward, the College Governing Body gives final approval. The process is completed by March 31st each year.

Purchasing is managed through central and departmental purchase committees. They follow a structured process: obtaining purchase intent, final approval, placing orders, receiving items, and processing payments. The institution conducts internal audits by a Chartered Accountant firm, and external audits by the DTE and the Office of the Accountant General, ensuring financial transparency. The audited statements are published on the college website.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/audit-report.php

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First

Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The Internal Quality Assurance Cell (IQAC), established in 2015, is crucial to institutionalizing quality assurance strategies. Following NAAC guidelines, its diverse membership—comprising the Principal, college trust members, faculty, administrative officers, local representatives, industrialists, and alumni—works collaboratively to enhance educational quality and resource mobilization.

The UGC granted TKM College of Engineering autonomous status for 10 years starting from the academic year 2022-23 (Order No. F.22-1/2022(AC), dated 26/5/2022). Approval from APJAKTU was secured (U.O. no. KTU/ASST11(ADMIN)/3212/2022, dated 02/09/2022). Preparations included constituting the Academic Council and Finance Committee, forming various Boards of Studies, and appointing Dr. Anu V. Thomas as Controller of Examinations. The college office was reorganized with a General Administration Division and an Examination wing. Expert consultations were held, and an academic management system was implemented. The academic and examination calendars were prepared and verified by the IQAC.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/iqac-breif

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

The IQAC ensure all departmental activities comply with the institute's academic calendar, through Department Quality Assurance Cell (DQAC). Provides orientation on OBE, curriculum, and the Academic Management System at semester start through advisory meetings or induction programs. Supervise course delivery based on Course Outcomes and Bloom's Taxonomy using AMS. Define assessment tools and processes for continuous evaluation, crucial for OBE. Coordinate with the Examination Cell for smooth internal exams. Monitor student learning in real-time via AMS and course committee meetings, organizing special programs for advanced and slow learners. Perform result

analysis and implement remedial actions for improvement. Track mid-term and end-term feedback for faculty evaluation through AMS and enhance teaching processes. Collect anonymous feedback on curriculum, courses, and facilities from faculty, students, and stakeholders, taking corrective actions documented in Action Taken Reports by IQAC.

The IQAC monitors the teaching learning process conducting two internal academic audits by the start and at the end of each semester. The detailed academic calendar and audit sheets are attached. The IQAC oversees course plans and reviews question papers to ensure continuous evaluation.

Parents and students can track academic progress through Etlab with dedicated login credentials. Student feedback is collected mid-term and at the end of the term to evaluate teaching effectiveness.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://tkmce.ac.in/audit-report.php

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	https://tkmce.ac.in/igac-aqar-report
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Gender equity is a cornerstone of our college's ethos, evident through a multitude of initiatives aimed at fostering an inclusive and supportive educational environment. Equal access to education is ensured through transparent admission processes and scholarships available to all students irrespective of gender. Faculty diversity is actively promoted, with measures in place to address unconscious biases in hiring and mentorship programs tailored to support the advancement of women in academia. Gender-sensitive policies are rigorously enforced, providing resources for reporting and addressing discrimination, harassment, and violence on campus.

Empowerment programs play a pivotal role in connecting female students with successful professionals and alumni, while workshops and seminars focus on women's leadership and career development. The Women's Cell, spearheaded by senior faculty, is dedicated to enhancing the self-esteem and self-confidence of female students and faculty members, advocating for their welfare, and ensuring their active participation in all academic and co-curricular activities.

Furthermore, initiatives such as the observance of the UN International Day for the Elimination of Violence Against Women and workshops on empowerment underscore the college's commitment to raising awareness about crucial gender-related issues. Through these concerted efforts, the college strives to create a campus culture that not only promotes gender equity but also empowers women to excel in all facets of their

academic journey and personal development, ultimately contributing to a more inclusive and supportive community.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://docs.google.com/document/d/1yF7bLDJC7jhwWS3dVNEJJfwFFGyTe-U8/edit?usp=drive_link&oid=107308393886640451869&rtpof=true&sd=true

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

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

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)

T K M College of Engineering demonstrates a strong commitment to environmental sustainability through comprehensive waste management facilities aligned with international standards. Solid waste management follows a systematic approach, with segregation at the source and strategically placed bins for biodegradable and non-biodegradable waste. The Green Cell conducts awareness programs to educate students and staff on waste segregation.

Biomedical waste disposal adheres strictly to international standards. E-waste management follows established protocols for environmentally friendly handling, with awareness campaigns organized by the Green Cell.

A comprehensive recycling system is promoted, with educational programs and recycling drives organized by the Green Cell. Hazardous chemicals and radioactive waste are managed diligently.

Furthermore, the Green Cell's initiatives include tree planting, maintenance, and a biogas plant installation for the college canteen, contributing to campus sustainability. Their focus on cleanliness and awareness aligns with the institution's environmental responsibility.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
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

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

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

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

A. Any 4 or All of the above

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

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

<p>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities 	<p>A. Any 4 or all of the above</p>
--	--

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

<p>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:</p>	<p>A. Any 4 or all of the above</p>
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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	View File
Details of the software procured for providing assistance	View File
Any other relevant information	View File

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).

TKM College of Engineering exemplifies a dedication to fostering inclusivity and harmony across diverse dimensions. Embracing cultural, religious, and regional diversity, the institution actively celebrates various festivals, fostering a sense of belonging among students from different backgrounds.

Recognizing the importance of cultural and religious observances, the college grants holidays for significant events, respecting the diversity of its student body. Moreover, the institution's affordable fee structure reduces financial barriers to education, promoting socio-economic inclusivity and equality.

Adhering strictly to reservation policies, the college ensures opportunities for minorities and underprivileged communities, promoting social equity and leveling the educational playing field. In times of crisis, such as natural disasters, TKM extends aid to affected communities, demonstrating solidarity and empathy.

During the COVID-19 pandemic, the college provided support by distributing gadgets for distance learning, ensuring accessibility to education for all students. Additionally, cultural exchange programs promote interactions among students from diverse linguistic backgrounds, fostering understanding and appreciation for diversity. Under the American Society for

Civil Engineers (ASC), a lecture series on Vastu and yoga was conducted. SPICMACAY (Society for the Promotion of Indian Classical Music and Culture Amongst Youth) has been active at the college since 2010, regularly hosting events, the most recent being a Manipuri cultural program in March 2023.

These initiatives underscore TKM College's commitment to inclusive education and societal harmony, creating an environment where every individual feels valued and respected.

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:

Established in 1958 by Janab Thangal Kunju Musaliar, TKM College of Engineering is a trailblazer in engineering education, emphasizing holistic student development and community service. It earned top honors in 2021 INDIA TODAY rating for its value-for-money education, notably through initiatives like the Merit-Cum-Means scholarship, benefiting over 500 students with grants exceeding 80 lakhs in the past five years.

With the largest student intake in Kerala, TKM consistently attracts top talent, aided by its effective advisory system nurturing enduring student-faculty bonds. The institution's alumni network spans 18 chapters globally, actively supporting initiatives such as the 'BACK TO HOME' project, recognized by the United Nations.

TKM celebrates academic excellence through events like the annual merit evening, while its Career Guidance and Placement Unit ensures robust student placements, with figures reaching 824 in 2022. Advocating for honors degrees since 2015, prioritizes student excellence and welfare.

Recent milestones, including autonomy status and a commitment to affordable education, underscore dedication to student and societal welfare. By admitting students from the Kerala government's rank list, the college offers education at a

nominal fee, striving to make quality education accessible to all. Through these efforts, TKM College continues to uphold its legacy of excellence and service.

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

A. All of the above

File Description	Documents
Code of Ethics - policy document	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

Celebration of days of National/International commemoration, events and festivals

Commemorative days, events and festivals are observed/celebrated by various clubs and societies. A few are listed below

- International

- International Yoga Day
- International Women's Day
- Men's Day
- World Environment Day
- World Water Day
- Human Rights Day
- Hiroshima Day
- World Health Day
- International day of the Girl Child

- National

- Independence Day
- Republic Day
- Gandhi Jayanthi
- Constitution day
- National Unity Day
- Children's Day
- Engineer's Day
- Reading week
- Nutrition week
- Teacher's Day

- NSS Day
- National sports day
- National cancer awareness day
- Festivals
- Holi
- Onam
- Christmas

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 Practice 1: Institute Social Outreach Programs

Objectives: TKMCE's social outreach programs aim to equip students as global citizens by addressing real-world issues, providing technical support, linking student initiatives with voluntary work, and fostering social commitment.

Context: With a history of providing aid, TKMCE's Societal Extension Activities Cell tackles societal challenges.

Practice: Initiatives include disaster relief and addressing COVID-19 challenges through projects like sustainable housing.

Successes: Achievements include MoUs with Rebuild Kerala, international participation, and national awards. The STEPS program has yielded positive outcomes.

Challenges and Resources: Time constraints and fundraising challenges exist, yet internal feedback highlights positive impacts on student well-being.

Best Practice 2: Holistic Student Development Programs

Objectives: These programs aim to enhance mental and physical fitness, foster critical thinking, and support socio-economically disadvantaged students.

Context: The COVID-19 shift to online learning emphasized the need for holistic development.

Practice: Activities include fitness challenges, counselling sessions, quiz contests, and skill development workshops.

Successes: Increased sports participation, higher placement rates, and positive student feedback showcase the impact on overall development.

Challenges and Resources: Adapting to online platforms and academic balance pose challenges, but feedback indicates positive growth in students' holistic development.

File Description	Documents
Best practices in the Institutional website	https://tkmce.ac.in/iqac-best-practices
Any other relevant information	https://drive.google.com/file/d/1BoBgoX75z88QZS5ltF6_1EIrVMA4JILb/view?usp=drive_link

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)

Established in 1958 by Janab Thangal Kunju Musaliar, TKM College of Engineering is a trailblazer in engineering education, emphasizing holistic student development and community service. It earned top honors in 2021 INDIA TODAY

rating for its value-for-money education, notably through initiatives like the Merit-Cum-Means scholarship, benefiting over 500 students with grants exceeding 80 lakhs in the past five years.

With the largest student intake in Kerala, TKM consistently attracts top talent, aided by its effective advisory system nurturing enduring student-faculty bonds. The institution's alumni network spans 18 chapters globally, actively supporting initiatives such as the 'BACK TO HOME' project, recognized by the United Nations.

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File Description	Documents
Appropriate link in the institutional website	https://tkmce.ac.in/igac-distinctiveness
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1.NBA Accreditation Work

- Submission of NBA SAR of Civil, Mechanical
- Coordination of the NBA team visit- EE, EC, H & CS

2. Policy and Procedure development

- Development of exam module in association with etlab & Controller office
- Academic Audit

- Internal Audit twice in semester

Preparations for KTU External audit

- Quality Monitoring of all activities
- Data Collection and mandatory submissions
- Completion of Autonomy Curriculum
- Apply for Margadarshan Scheme