YEARLY STATUS REPORT - 2023-2024

Part A	
Data of the Institution	
1.Name of the Institution	TKM COLLEGE OF ENGINEERING
• 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. Fazil A.**	
• Phone No.	**04742712022**	
• Mobile No:	**9326113840**	
• IQAC e-mail ID	**iqac@tkmce.ac.in**	
3.Website address (Web link of the AQAR (Previous Academic Year)	https://tkmce.ac.in/uploads/AQAR22-23.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/downloads	

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 Lakh
Department- Mechanical Engineering	FIST	DST	03/02/2022	69 Lakh
Institution- TKM College of Engineering	RUSA	MHRD	18/12/2018	1.5 Crore
Institution- TKM College of Engineering	IDEA LAB	AICTE	04/02/2023	82 Lakh
Institution- TKM College of Engineering	TEQIP	AICTE	04/06/2014	323.55 Lakh
Institution- TKM College of Engineering	MARGDARSHAN	AICTE	19/04/2024	9 Lakh

8.Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI

[View File]

9.No. of IQAC meetings held during the year — 1

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?

Yes

• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded
10.Did IQAC receive funding from any funding agency to support its activities during the year?	**No**
• If yes, mention the amount	

11.Significant contributions made by IQAC during the current year (maximum five bullets)

Administrative Planning and Data Management The IQAC meticulously finalized strategies for data collection and preparation for key ranking frameworks, including NIRF and KIRF, ensuring adherence to their respective guidelines. Standardized templates and uniform data collection strategies were developed to streamline processes and maintain consistency. For AQAR preparation for 2022-2023, detailed timelines and monitoring mechanisms were established, ensuring timely and accurate submissions. Faculty members were trained and responsibilities were clearly allocated, with a finalized workload distribution plan for seamless execution.

Academic and Internal Audits A significant step was taken with the decision to conduct the Internal Academic Audit on November 27th and 28th, 2023. The scope and evaluation criteria for the audit were carefully defined, and departments were well-informed to facilitate smooth execution. This initiative is critical for assessing the academic and administrative functions of the institution.

Governance and Curriculum Enhancement IQAC facilitated key governance activities, including the successful organization of Department Board of Studies (BoS) meetings across all departments, where curriculum updates and academic regulations were reviewed and approved. Additionally, the 5th Academic Council Meeting was conducted, addressing vital academic policies and institutional advancements.

Academic and Co-Curricular Activities The IQAC played an active role in promoting academic and co-curricular excellence. It finalized rules and regulations for the poster presentation event, ensuring clarity and uniformity in evaluation criteria, and engaged faculty and students in meaningful academic activities.

Review and Quality Assurance A comprehensive review of AQAR preparation for 2022-23 was conducted, verifying data under various criteria and suggesting necessary modifications to meet NAAC standards. This rigorous review ensured that institutional

achievements and practices were accurately reflected.

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
3 days FDP on Introductory UHV on Face-to-Face mode	FDP conducted on 20-22 July 2023
Curriculum Revision for 2024 Scheme (Autonomous)	Approved the 2024 Scheme curriculum in Academic council meeting held on 31.07.2024
3 days workshop on Research Writing and publishing in high impact Journal	Conducted 3 days training on Research Writing and publishing in high impact Journal 24-26 July 2023
NBA Accreditation of Civil Engineering and Mechanical Engineering Departments	Initiated the SAR preparation for the NBA Accreditation of Civil Engineering and Mechanical Engineering Departments
Student Induction Programme (SIP) for first year students admitted in the year 2023-24	SIP Conducted for the first-year students admitted during the year 2023-24 on 08-19 September 2023
Preparation of 2023 Scheme curriculum and S1S2 syllabus of various UG and PG programmes under Autonomy	Approved the 2023 Scheme curriculum and S1S2 Syllabus in the third Academic Council Meeting held on 12.06.2023
Preparation of S3-S10 syllabus of various UG programmes under 2023 Scheme curriculum and 4th Semester syllabus of various PG programmes under 2022 Scheme	Approved the S3-S10 syllabus of various UG programmes under the 2023 Scheme curriculum and 4th Semester syllabus of various PG Programmes under 2022 Scheme in 4th Academic Council Meeting held on 25.01.2024

13.Was the AQAR placed before the statutory body?	No

- 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

- Year

Year	Date of Submission
2022-2023	19/03/2024

15.Multidisciplinary / interdisciplinary

The year 2023-2024 is marked as the most important academic year after the Autonomous status conferred by UGC on 02.09.2022. The basic requirement of NEP 2020 has already been instilled into the College Vision and Mission through the imolementation of new curriculum (2023 Scheme) 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 durin 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 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. The programme M.Tech in Industrial Safety and Engineering under the Departrment of Chemical Engineering has been started in the year 2022 is an interdiscuplinary course.

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 Skilling 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 To26-08-2023 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 (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. 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 inaufgurated 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 stateof-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. TKM College of Engineering (TKMCE) and Sreenarayanaguru Open University (SGOU) have signed a Memorandum of Understanding (MoU) to offer certificate courses under the initiative of Centre for Artificial Intelligence TKMCE.

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   **4176**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2   **953**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3   **1047**

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   **21**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.2   **251**

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	**21**

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 Total number of students during the year:	**4176**

File Description	Documents
Institutional data in Prescribed format	View File

2.2 Number of outgoing / final year students during the year:	**953**

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 Number of students who appeared for the examinations conducted by the institution during the year:	**1047**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 Number of courses in all programmes during the year:	**21**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 Number of full-time teachers during the year:	**251**

File Description	Documents
Institutional Data in Prescribed Format	<u>View File</u>

3.3 Number of sanctioned posts for the year:	**238**
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**433**
4.2 Total number of Classrooms and Seminar halls	**89**
4.3 Total number of computers on campus for academic purposes	**1215**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**263.54886**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

The 2023 undergraduate curriculum integrates the concept of Curriculum for Pragmatic Learning (CPL) into all programs. This curriculum exposes students to both theoretical and practical engineering aspects, offering hands-on experience with the latest industry technologies and tools.

Over four years, students must complete 163 credits—160 from

courses and 3 from activity points. The curriculum includes Program Core, Professional Elective, Project-Based Courses, and Open Elective Courses. It also features basic science courses with lab components, 4-hour lab courses, 1/2-hour theory courses, and 2-hour lab courses to ensure a comprehensive understanding of recent technological trends. These courses are designed in a student-centric manner, providing a well-rounded education with the flexibility to tailor the learning experience to individual interests and career goals.

The program also supports micro-specializations, Minor/Honors in Engineering, and industry internships, offering exposure to concepts and perspectives beyond the degree program. The curriculum introducessports and yoga, Universal Human Value programs and opportunities to participate in socially relevant projects. This diverse curriculum ensures that students gain higher order skills, nurture a holistic perspective and make meaningful contribution to the surrounding communities. Additionally, extracurricular activities allow students to earn activity points while developing 21st-century skills such as leadership, teamwork, and communication.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	https://docs.google.com/document/d/1PyWCVv BjArNVFS1EKJY8dVwWscFZtrlu/edit

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

9

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

52

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

50

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

17

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

In today's rapidly changing world, it is essential to cultivate a

comprehensive understanding of life and increase students' awareness of its various dimensions, including individual, family, societal, and environmental aspects. This involves promoting self-reflection and nurturing a holistic perspective. Equally important is the focus on enhancing physical and mental well-being, facilitating all-round development, improving social skills, reducing stress, imparting life skills, and laying the foundation for a healthy and harmonious lifestyle. The 2023 curriculum effectively addresses these challenges through the following courses.

- Life Skills and Professional Ethics
- Universal Human Values-II
- Sports and Yoga
- Environmental Sciences
- Sustainable Engineering

To promote civic responsibility, develop leadership skills, and enhance students' understanding of social issues, the new curriculum includes course on Constitution of India and opportunities for students to engage in socially relevant projects. These projects not only allow students to earn activity points towards their credits but also foster a social and environmental outlook, positively impacting society.

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

26

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

1375

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

1110

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	https://drive.google.com/drive/folders/1gEdCgDgTdlnkyMR-fNSFINPZVwC95YhU?usp=sharing
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

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

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.tkmce.ac.in/uploads/Survey%20Result-Student%20satisfaction%20survey%202023-24_240530_231738.pdf
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

1226

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)

433

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

2.2 - Catering to Student Diversity

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

The newly admitted students will navigate the environmental transition from school to college through the Student Induction Program (SIP) which houses various discussions and activities. Faculty use assessment tools such as tests, quizzes, and assignments to track students' progress during academic delivery to categorize slow and advanced learners. The student's progress is monitored by the advisory committee, class committee, and course committee in all the departments. After the first internal

examination, a review between HoD, senior advisor, subject coordinators, and student representatives in the class committee is done to assess the student's performance. The feedback from students and faculty is collected to understand the effectiveness of teaching and learning methods. Initiatives such as remedial classes, peer group learning, skill development workshops, and tutorials are conducted to help slow learners with their academics. Whereas, advanced learners are encouraged to enroll in Minors, Honors, workshops/conferences/hackathons, and MOOC courses. To aid with placements at higher semesters, 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
31/05/2024	4176	251

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:

With the attainment of autonomous stature in the year 2022, the revised curriculum provides different learning experiences by including project-based courses, lab-based courses, and skill development labs. Some of the techniques are listed below:

Experiential learning: Students are encouraged to pose questions, experiment, be creative, solve problems, be enthusiastic, assume responsibility, take challenges, and make decisions.

- Hands-on training is provided in 82 laboratories with sophisticated and modern experimental arrangements.

- Internships

- Industrial visits

- Technical fests

- Clubs and associations

- Project-based courses

- Lab-based courses

Participative learning: Students learn through interacting with each other, teachers, classroom, and society.

- Classroom learning is incorporated with expert lectures, student seminars & group activities to nurture active learning.

- Conferences, workshops, and seminars provide opportunities for students to participate and showcase their knowledge and skills.

- TED Talks, debates & panel discussions provide avenues to interact with advancements in different fields.

- Peer learning through mini-projects and final-year projects encourages shared learning.

- Panel Discussion and evaluation is conducted for architecture students keeping them abreast with the trends.

Problem-solving methodologies: Students apply concepts to solve real-life problems which aid in attaining program outcomes.

- Real-life problems

- Case studies

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

All the teachers use ICT tools throughout the semester for the preparation of lecture planning, delivery of lectures, attendance entry, assignments, quizzes, and internal evaluations. All the 73 classrooms are ICT-enabled. Etlab is the teacher-student interface platform that facilitates Continuous Internal Assessment (CIA). Faculty can easily monitor student performance, upload course plans, class materials, generate quizzes, and video lectures required for learning. Etlab also enables the computation of Course Outcome attainments for different courses and thereby aids in identifying the gaps in teaching-learning methods. For the autonomous batches, the different sets of question papers and answer schemes are generated in QNsmart, which are subjected to scrutiny by an internal and external examiner. This procedure finalizes question papers for the end-semester examination. After the end-semester examination, the answer scripts are scanned and uploaded in the exam portal and assigned to faculty for valuation in the tkmce exam portal. The strict guidelines for valuation timelines ensure the timely publishing of the end-semester results. TKMCE Mirror is the YouTube channel of the college that reaches out to the masses, especially our students to understand the concepts of theory and lab courses. Apart from this, many faculty have their channels for assisting the students

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.youtube.com/@tkmcemirror902?reload=9
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

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 curricular and co-curricular activity schedule for each semester. The number of working days is strictly followed as per the directive from Dean Academics after compensating for any loss of day. The dates for every club activity are also collected while preparing the Academic Calendar to facilitate the students' holistic growth. The Continuous Internal Assessment (CIA) is conducted as scheduled in the calendar. The advisory committee, class committee, and course committee are functioning in all the departments to assess the students' progress and collect feedback from faculty and student. After each internal examination, a review between HoD, senior advisor, subject coordinators, and student representatives in class/course committee is done to assess the students' academic performance. The Central Examination Committee, led by Principal and representatives of all Departments, ensures the timely publication of internal exam timetables and the 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) / Department Quality Assurance Committe (DAQC) and once approved, uploaded as per schedule. The external Auditor appointed ensures compliance with the schedule.

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

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	No File Uploaded
Any additional information	No File Uploaded

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

80

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

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

2371

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

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

52

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

238

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

Etlab is the teacher-student interface platform that facilitates Continuous Internal Assessment (CIA). Faculty can easily monitor student performance, upload course plans, class materials, generate quizzes, and video lectures required for learning. After considering different internal tools for final sessional computation, suitable weightages are assigned based on mark distribution guidelines specified in syllabus. The students having attendance shortages need to fill out condonation form, and upload it along with medical certificate in Etlab. The condonation forms will be approved after verification by Senior advisor and Head of Department. The eligibility of each student to write end-semester examination is finalized based on attendance and internal marks. Furthermore, the autonomous status of the institution necessitates preparation of question banks for each subject using which final examination question papers are auto-generated in QNsmart portal. The different sets of question papers and answer schemes generated in QNsmart are subjected to scrutiny by an internal and external examiner. This procedure finalizes question papers for the end-semester examination. After the end-semester examination, the answer scripts are scanned and uploaded in the exam portal and assigned to faculty for valuation. The strict guidelines for

valuation timelines ensure the timely publishing of the end-semester results.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	**Nil**

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), Programme Specific Outcomes (PSOs), and Course Outcomes (COs) are endeavour to attain the Graduation Attributes (GA), which are essential for holistic development, are mentioned and displayed on the website and communicated with all stakeholders, utilising a variety of online and offline media. The Course Outcomes (COs) are designed in alignment with POs and PSOs by the subject group based on departmental norms and approved by the Department Academic Committee (DAC). The Course Outcomes are prescribed for all courses in 2019 Scheme Curriculum of the University and 2023 autonomous scheme. They are then made available in the Academic management system -ETLAB for reference to Students and Faculty.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	[View File](#)
Upload any additional information	[View File](#)
Link for additional Information	**Nil**

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

The primary goal of Outcome-Based Education (OBE) is to evaluate students' achievement of the Programme Outcomes (POs) defined by the NBA. Assessing Course Outcomes (COs) is the first step in this process, using both direct and indirect methods. Direct assessment reflects students' knowledge and skills through tools like internal assessments, assignments, and end-semester exams, providing robust evidence of learning. Indirect assessment involves a Course Exit Survey conducted at the semester's end.

Faculty frame COs, which are analyzed by the Department Academic Committee (DAC). CO-PO correlations are mapped at levels 1/2/3, and expected attainment levels are set. Direct CO attainment (CODirect) combines internal and external evaluation indices in a 60:40 ratio, while indirect attainment (COIndirect) is based on surveys. The overall CO attainment is calculated based on 80:20 ratio. PO attainment is similarly evaluated. Direct PO attainment (PODirect) uses the CO-PO correlation matrix, while indirect attainment (POIndirect) uses surveys and activities like internships, technical events, and workshops. The overall PO attainment is the average across all courses mapping to the PO. DAC reviews outcomes and initiates improvements to meet targets.

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

939

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://www.tkmce.ac.in/iqac-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 activitieswith a clear-cut Research Policy. A dedicated Research Dean is appointed to cater to the requirements of the Research Community. The Research Council consisting of the Research spearheading faculty representing all Departments support all 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:

- The Biomedical Engineering Research Lab in Department of Electronics and Communication Engineering (ECE), Partly sponsored by Emerald Group of Companies (Abu Dhabi, UAE), the lab will pioneer research in biomedical devices and AI-driven diagnostics
- The Electrical and Electronics Engineering department has set up a brand-new embedded systems laboratory for the studentsfor hands-on training to mould our students into industry-ready engineers.The systems are equipped with the latest version of STM32 cube IDE and nano edge AI, a platform used by reputed firms to train their systems with Machine Learning models.
- The Department of Civil Engineering and the Department of Architecture catering as an interdisciplinary hub for joint interactions and research works for Geoinformatics Research Laboratory. The systems are fully equipped with purchased version of ArcGIS 10.8, ageospatial softwareto view, edit, manage, analyze geographic data and patterns and to generate maps. There are other software like HECRAS, HECHMS, HECSSP, R-studio, QGIS and Google Earth pro installed in the systems.

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	No File Uploaded

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

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

0

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	No File Uploaded

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

2

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

3.2 - Resource Mobilization for Research

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

308.9

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

9

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/funded-projects.php
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

48

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

4

File Description	Documents
Supporting document from Funding Agencies	[View File](#)
Paste link to funding agencies' website	https://tkmce.ac.in/funded-projects.php
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.In 2023, we registered approximately nine startups under the IEDC (Innovation and Entrepreneurship Development Centre). The details are available in the report attached.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.iedctkmce.com/

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

14

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   **A. All of the above**

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

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

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

3.4.2.1 - Number of PhD students registered during the year

18

File Description	Documents
URL to the research page on HEI website	https://tkmce.ac.in/research-council
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	[View File](#)
Any additional information	**No File Uploaded**

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

102

File Description	Documents
List of research papers by title, author, department, and year of publication	[View File](#)
Any additional information	**No File Uploaded**

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

2

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	**No File Uploaded**
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
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	[View File](#)
Any additional information	**No File Uploaded**

3.5 - Consultancy

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

4678209

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

3397315

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.

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

2

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	**No File Uploaded**

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

45

File Description	Documents
Reports of the events organized	[View File](#)
Any additional information	**No File Uploaded**

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

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

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

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

18

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The institution boasts a well-planned and modern campus infrastructure designed to provide a seamless teaching-learning experience while supporting overall student well-being and development. Facilities adhere to AICTE and UGC norms, fostering a holistic and inclusive educational environment.

Key Features

- Campus:
  - Spanning 16 acres, offering a serene and conducive atmosphere for academic pursuits.
- Classrooms and Labs:
  - 83 classrooms:
    - 75 equipped with e-learning tools (LED projectors).

- 8 smart classrooms with interactive smart boards.
  - 82 advanced laboratories for hands-on learning.
  - Central Computing Facility with 128 computers.
- **Event and Activity Spaces:**
  - 6 seminar halls and 8 departmental studios for academic and cultural activities.
  - A 1000-seat auditorium for events and celebrations.
  - Landscaped areas and informal gathering spaces for relaxation and collaboration.
- **Faculty and Administration:**
  - Faculty rooms to promote student-faculty interaction and collaborative learning.
  - 2 conference rooms and efficient examination management facilities.
- **Student Amenities:**
  - Medical and counseling services to support physical and mental well-being.
  - Comfortable residential accommodations across 12 blocks.
  - A well-maintained canteen offering nutritious and hygienic food.
  - Recreational spaces like the APJ Park, a hub for outdoor activities and events.

The institution's comprehensive infrastructure ensures a vibrant, student-focused campus that supports academic excellence, extracurricular engagement, and personal growth.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/

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

The Department of Physical Education plays a pivotal role in promoting sports and fitness among students and staff. It focuses on maximizing student involvement in athletics and cultivating a positive attitude towards the importance of sports in overall well-being.

Key features :

- Organizing the annual sports meet for the TKM fraternity.
- Conducting regular training sessions and playoffs for students.
- Facilitating participation in college, intercollegiate, and university-level sports competitions.
- Holding periodic selection trials and camps to identify and form college sports teams for intercollegiate tournaments.

Additional facilities:

- A modern, well-equipped gymnasium with advanced multi-functional equipment is available for students and staff to improve physical and mental health.
- Comprehensive training facilities to support students involved in various sports.
- Observing International Yoga Day annually, with expert-led sessions for yoga and aerobics to enhance focus and flexibility.

Facilities for Cultural Activities

The institution provides a dynamic platform for cultural expression and engagement through:

- A state-of-the-art indoor auditorium with advanced audio-visual facilities, accommodating nearly 2,000 individuals, ideal for hosting major cultural events.
- A spacious open ground for hosting cultural and technical fests, capable of accommodating up to 1,000 participants.
- Multiple seminar halls for smaller gatherings, offering versatility for various cultural and academic purposes.

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/physical-education

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

89

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)

131.3

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

The institution's library is fully automated using an Integrated Library Management System (ILMS), ensuring efficient and user-friendly access to resources. Below are the highlights of the library's automation and digital initiatives:

- **Library Automation:**
    1. **Fully automated using KOHA Library Management Software for acquisition, circulation, cataloguing, and more.**
    2. **Online Public Access Catalogue (OPAC) integrated with the college portal, accessible globally.**
    3. **Features online search, renewal, reservation, and book purchase recommendations, especially beneficial for Divyangjan students.**
- **Pioneering Efforts:**
    1. **Started automation in 2004 with SOUL (Software for University Libraries).**
    2. **Transitioned to KOHA in 2014 and upgraded in 2020 for enhanced functionality.**
- **Technology Integration:**
    1. **Barcode technology for efficient book circulation.**

2. **RFID (Radio Frequency Identification) for advanced resource management.**
   - **Digital Resources:**
           1. **Digital Library with 20 PCs for accessing e-resources.**
           2. **Customized digital repository using Dspace software, featuring thesis, project reports, faculty publications, e-books, and question banks.**
           3. **Remote access portal and OPAC available via QR codes placed strategically on campus.**

These initiatives underscore the institution's commitment to technological advancement and inclusive resource access.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/central-library

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)

29.6

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

159

File Description	Documents
Upload details of library usage by teachers and students	[View File](#)
Any additional information	**No File Uploaded**

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

The institution features a state-of-the-art IT infrastructure guided by a comprehensive IT policy covering Wi-Fi connectivity, cybersecurity, and system upgrades. The campus is equipped with a high-speed, robust network backbone, ensuring seamless connectivity and access to technological resources for students, faculty, and guests.

- **Comprehensive IT Policy:**
    - **Covers critical aspects such as Wi-Fi, cybersecurity, and regular IT facility upgrades.**
    - **Dedicated budget allocated for continuous IT infrastructure enhancements.**
- **Robust Network Backbone:**
    - **Campus-wide high-speed network built on a DLINK switching platform with a 1 Gbps backbone.**
    - **2000+ IP-enabled devices connected via a network of 10/100/1000 Mbps LAN.**
    - **Network backbone comprises Optical Fibre (OFC) and CAT 6 cabling connecting computing labs, classrooms, libraries, and offices to the Campus Networking Centre (CNC).**

- Upgraded infrastructure from 10/100 Mbps LAN to the current high-speed configuration.
- **Network Hardware:**
  - Utilizes switch models such as D-Link 3620, 3120, 1210, and 3160 to meet networking needs.
  - All core and distribution switches equipped with SFP ports for OFC uplink.
- **Wi-Fi Connectivity:**
  - Over 50 Wi-Fi access points deployed across the campus for seamless internet access.
  - Ruijie Wi-Fi controller ensures centralized authentication and management of access points.
  - Wi-Fi networks provide uninterrupted internet in hostels and campus areas for students, faculty, and guests.

The institution's IT infrastructure reflects a strong commitment to providing state-of-the-art technology and reliable connectivity to support academic and administrative excellence.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.tkmce.ac.in/it-cell.php

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4176	1215

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

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.youtube.com/@tkmcemirror902
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)

1439. 5

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 committed to continuous improvement, addressing technological advancements, and enhancing infrastructure to support academic excellence. The institution adopts a structured approach to maintain and utilize its physical, academic, and support facilities effectively.

Key initiatives include the establishment of a centralized computing and interdisciplinary research facility under the RUSA

fund to enhance research capabilities. The Innovation and Entrepreneurship Development Cell (IEDC) will be expanded to provide more space for business incubation.

A new department block for the Architecture branch will transform it into a center of excellence with state-of-the-art facilities. A modern classroom complex is planned to meet academic requirements, and Diamond Jubilee hostels will cater to increased student intake.

Advanced laboratories will be developed for areas like solar energy, geo-environmental engineering, water resources, tribology, composites, material testing, and thermal analysis. The Computer Science department will also gain a modern laboratory with advanced systems and software.

Support facilities include a 3,000-capacity convention center and an expanded examination center for streamlined processes. Maintenance of existing laboratories and minor civil works are routinely carried out.

The renaming of the Mechanical Workshop block to 'Somanath Centre' serves as a lasting tribute to Dr. Somanath's contributions, symbolizing the strong connection between the college and the achievements of its alumni.

Additionally, the establishment of a technology business incubator under the Institution Innovation Cell (IIC) and an AICTE IDEA lab further highlights TKMCE's commitment to innovation and excellence.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/College-policies#

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

1248

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

127

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	**Nil**
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

495

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

436

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

41

File Description	Documents
Upload supporting data for students/alumni	[View File](#)
Details of students who went for higher education	[View File](#)
Any additional information	**No File Uploaded**

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

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

59

File Description	Documents
Upload supporting data for students/alumni	[View File](#)
Any additional information	[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

25

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. Apart from these two committees, the participation of student representatives is in the following bodies:

1. Internal Quality Assurance Cell, IQAC
2. Class/Course Committees for each semester
3. Students Grievance Redressal Committee
4. Internal Compliance Committee
5. Library Council
6. Antidrug cell
7. Anti-ragging committee
8. SC/ST/OBC Committee
9. UHV Cell
10. Women's Cell
11. Sports Council
12. Hostel Management Committee
13. Canteen Committee
14. Department Associations

The active participation of student representatives in various academic and administrative bodies plays a vital role in fostering transparency and accountability within the institution. The student representation not only empowers students to voice their opinions but also enhances the overall quality and effectiveness of institutional processes, ultimately contributing to a student-centric and transparent academic ecosystem.

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

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

24

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

5.4 - Alumni Engagement

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

The 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. The prominent alumni chapters include UAE, Singapore, USA, Oman, Kuwait, Europe, Saudi and Qatar.

The Alumni Association continued its active role in supporting various institutional projects and student welfare programs. Contributions from alumni members have been utilized for many activities like

- **Student awards and recognitions**
- **Establishment of APJ Dream Park at TKMCE (SEEDS 97 Incubation Centre)**
- **Cutting edge workstation for doing student projects in CSE department**
- **Establishing Biomedical Signal Processing Lab in ECE department**
- **Signing of MoUs with foreign universities/research institutions**
- **Medical treatment support for needy students**
- **Construction of a brand-new house for a courageous survivor of the tragic endosulfan incident**
- **Contributions towards Wayanad Relief efforts**
- **Financial aids for national-level competitions**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	**Nil**

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 is distinguished by its robust organizational structure and effective leadership, ensuring strong governance. The Governing Body (GB), led by the TKM Trust Chairman and supported by the Principal as ex-officio secretary, comprises representatives from the TKM Institution Trust, Government of Kerala, and AICTE. The GB plays a pivotal role in college administration, convening annually to formulate policies, development plans, budget proposals, and staff appointments in alignment with regulatory guidelines.

Senior leadership promotes academic and administrative excellence by empowering faculty and fostering their involvement in institutional governance. Comprehensive induction training equips newly recruited faculty for their roles, ensuring seamless integration. Statutory committees are systematically constituted to align decision-making processes with institutional goals. These committees, meeting regularly, focus on planning, quality improvement, research, student affairs, and library management.

Through collaborative decision-making and structured leadership, the institution effectively translates its vision into actionable outcomes, driving continuous growth and development.

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

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

Our mission and vision emphasize decentralizing power and fostering faculty involvement in institutional governance.

College Planning and Evaluation Committee implements the Governing Body's recommendations, manages the annual budget, and formulates institutional development plans.

Institute Level: The Principal oversees academic administration in line with University and AICTE guidelines. Regular meetings with Deans and the HoDs Council address teaching, research, industry collaborations, and outreach activities. Committees like IQAC, Examination Cell, and Research & IPR Council support academic and administrative functions.

Department Level: The HoD manages academics with support from committees like the Department Quality Assurance Cell and Department Management Committee, ensuring educational quality.

Participative Leadership: Administrative assistants handle office operations, while independent committees oversee various administrative tasks.

Academics: IQAC oversees academic activities at the institute level, while faculty serve as HoDs, academic coordinators, and committee members, contributing to smooth operations.

Student Support Systems: Faculty advisors mentor groups of 35-40 students, providing academic guidance and supporting student-focused committees for co-curricular and extracurricular activities.

This participative leadership model fosters collaboration, quality education, and institutional growth.

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

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 aims to enhance teaching, research, and extension activities, aligning with our vision and mission. Key highlights include:

1. Human Resource Management: Faculty and staff recruitment follow AICTE and Kerala Government policies. A dedicated board, with representatives from Kerala Government, APJAKTU, and external experts, oversees this process.

2. Industry Interaction and Collaboration: MoUs with leading universities foster partnerships for expert lectures, certificate courses, research initiatives, industry-related projects, and internships.

3. Research and Development: Faculty research is supported through the AICTE QIP initiative, with the institute recognized as a QIP research center by the Ministry of Education. Faculty members supervise Ph.D. scholars.

4. Teaching and Learning: Teaching processes are reviewed by course committees and stakeholder feedback. Students are encouraged to participate in conferences, workshops, study tours, and industry visits. E-learning is actively promoted, with seamless online teaching during the COVID pandemic using platforms like Moodle.

5. Library, ICT, and E-Governance: The library provides extensive e-learning resources and journal access. Infrastructure is regularly upgraded, and e-governance ensures efficient administration, teaching, admissions, exams, and financial operations.

These initiatives collectively address industry and societal needs while fostering academic excellence.

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.

1. Strategic Development Plan:

- **Aligns with the institute's vision and mission.**
- **Sets short- and long-term goals to address industry and societal needs.**

2. Human Resource Management:

- **Recruitment and pay scale adhere to AICTE and Kerala Government norms.**
- **A diverse board with government, university, and expert representatives ensures robust governance.**

3. Industry Interaction & Collaboration:

- **MoUs with leading universities foster expert lectures, certificate courses, internships, and industry-driven research projects.**

4. Research and Development:

- **Recognized as an AICTE QIP research center by the Ministry of Education.**
- **Faculty supervise Ph.D. scholars and actively engage in research.**

5. **Teaching and Learning:**

   - Regular evaluations through course committees and stakeholder feedback.
   - Students participate in conferences, workshops, study tours, and industry visits.
   - Seamless transition to online teaching during COVID-19 using platforms like Moodle.

6. **Library, ICT, and E-Governance:**

   - Library offers e-resources and journal access.
   - Infrastructure is updated regularly.
   - E-governance optimizes administration, teaching, exams, admissions, and finance.

These efforts reflect efficient policies, a streamlined administrative setup, and adherence to service rules and procedures.

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/1ga0mBRScEJy_xTTceSokbqXQ0ZTDiqEl/view?usp=drive_link

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

B. Any three of the above

File Description	Documents
ERP (Enterprise Resource Planning) 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 staff well-being through structured welfare measures and robust feedback mechanisms.

Welfare Measures:

- Health: Comprehensive support includes life and group insurance, medical reimbursements, maternity (180 days) and paternity leave (10 days), along with commuted leave.
- Education: Faculty benefit from research opportunities under AICTE's QIP scheme, seed grants, publication incentives for SCI journals, financial support for faculty development programs, and soft skill training for non-teaching staff.
- Monetary: Financial security is ensured through provident fund, gratuity, pensions, travel concessions, festival advances, and allowances.
- Other Benefits: On-campus amenities include counseling services, medical facilities, sports, yoga, a gym, recreational trips, a staff club, ATM, canteen, bus services, and guest house access.

Feedback Mechanisms:

- Student Evaluation: Mid- and end-semester feedback on faculty performance is collected via an academic management system.
- Class Committee Meetings: Held regularly to address syllabus coverage, performance analysis, and general concerns.
- Career Advancement Scheme (CAS): Faculty promotions are based on academic performance and extracurricular contributions, following AICTE guidelines.

This comprehensive approach fosters professional development and ensures staff well-being, contributing to a positive and growth-oriented institutional environment.

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

0

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

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

6

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

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

100

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Our institution ensures transparency and accountability through regular audits that encompass both academic and financial domains:

1. **Internal Financial Audits:**

   - Regular audits of financial transactions are conducted by internal committees to maintain transparency.
   - The audits cover the office, laboratories, and other facilities to ensure proper utilization of funds.

2. **External Financial Audits:**

   - Third-party audits are conducted periodically to validate internal reports and ensure compliance with regulatory norms.
   - These audits focus on grants, student fee management, and operational expenses.

3. **Academic Audits:**

   - The institution conducts academic audits to evaluate the effectiveness of teaching, learning, and research processes.
   - This includes a review of departmental activities, faculty performance, lab facilities, and student achievements.

Internal audits by a Chartered Accountant firm and external audits by the DTE and Accountant General ensure accountability. Audited financial statements are published on the college website, demonstrating transparency in financial operations.

These audits are integral to sustaining high standards of governance, financial prudence, and academic excellence. Regular monitoring ensures optimal resource allocation, accountability, and continuous improvement.

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)

52.27906

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

TKM College's finances are derived from three main sources:

1. **Government Funding (85-90%): As an aided institution, the government covers salaries for permanent and guest faculty, tuition, scholarships, and research grants. Agencies like AICTE, UGC, CERD, and DST-FIST provide additional project-based funding.**

2. **Non-Government Contributions (1-3%): This includes support from alumni, the Parent-Teacher Association (PTA), and private donors, including companies and philanthropists.**

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

Budget and Procurement Process

The budget is finalized by March 31st each year. Department heads submit proposals to the College Planning Board, reviewed and approved by the Governing Body. Purchases are managed via central and departmental committees, following a systematic process from intent to payment.

Audit and Transparency

Internal audits by a Chartered Accountant firm and external audits by the DTE and Accountant General ensure accountability. Audited financial statements are published on the college website, demonstrating transparency in financial operations.

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) of TKM College of Engineering, established in 2015, has been instrumental in institutionalizing quality assurance strategies. Guided by NAAC principles, its diverse team—comprising the Principal, trust members, faculty, administrators, local representatives, industrialists, and alumni—collaboratively drives quality enhancement.

Key initiatives during the preceding year include:

1. Autonomy Achievement: Secured 10-year autonomous status from UGC (Order No. F.22-1/2022(AC), dated 26/5/2022) and approval from APJAKTU (U.O. no. KTU/ASST11(ADMIN)/3212/2022, dated 02/09/2022).
2. Institutional Restructuring: Established Academic Council, Finance Committee, and Boards of Studies; appointed a Controller of Examinations.
3. Office Reorganization: Created a General Administration Division and Examination Wing to enhance efficiency.

4. **Expert Consultations:** Engaged specialists to streamline academic and administrative processes.
5. **Academic Management System:** Implemented for seamless planning and monitoring.
6. **Comprehensive Calendars:** Academic and examination schedules prepared and verified by IQAC.

These efforts underline IQAC's pivotal role in driving institutional excellence and ensuring continuous improvement.

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 Internal Quality Assurance Cell (IQAC) ensures departmental activities align with the institute's academic calendar via the Department Quality Assurance Cell (DQAC). Key initiatives include:

- **Semester Orientation:** Conducting advisory meetings or induction programs to guide on Outcome-Based Education (OBE), curriculum, and the Academic Management System (AMS).
- **Course Delivery Monitoring:** Supervising course outcomes and Bloom's Taxonomy compliance through AMS, with defined assessment tools for continuous evaluation.
- **Examination Coordination:** Collaborating with the Examination Cell for seamless internal exams.
- **Learning Support:** Tracking real-time student progress through AMS and course committee meetings, organizing special programs for advanced and slow learners.
- **Feedback and Improvement:** Collecting and analyzing mid-term and end-term feedback on teaching and courses, implementing corrective actions via documented reports.
- **Result Analysis:** Evaluating academic outcomes and initiating remedial measures for improvement.

Additionally, IQAC conducts two academic audits per semester and reviews course plans and question papers to ensure continuous evaluation. The DQAC oversees these processes meticulously.

Parents and students can track progress through Etlab using login

credentials. Anonymous feedback on curriculum and facilities from stakeholders is regularly reviewed, fostering transparency and teaching effectiveness.

Attachments include the detailed academic calendar and audit reports.

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/iqac-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	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Gender equity stands as a fundamental pillar of our college's values, manifested through an array of initiatives designed to cultivate a welcoming and nurturing educational atmosphere. We guarantee equal access to education via open admission channels

and scholarships that cater to every student's needs, regardless of gender. We actively advocate for faculty diversity, implementing targeted strategies to combat unconscious biases in recruitment. Approximately 47% of the faculty members appointed are women. The college committees are also established to ensure balanced representation of both male and female faculty members.

The college diligently upholds gender-sensitive policies, equipping robust systems for reporting and tackling discrimination, harassment, and violence within the campus realm. Empowerment programs seamlessly link female students with accomplished professionals and alumni, weaving networks of motivation and mentorship. Workshops and seminars dedicated to women's leadership and career advancement further bolster these initiatives. The Women's Cell, steered by experienced faculty members, plays a crucial role in elevating the self-worth and confidence of female students and faculty alike.

In the realm of sports, it is ensured that girls are equally involved, and they have proudly secured numerous trophies for the college. The activities of college clubs are also executed with balanced participation from both boys and girl students. These initiatives collectively endeavor to forge a campus culture that champions gender equity, empowering women to thrive both academically and personally, while contributing to a more inclusive community

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://drive.google.com/file/d/1QgsxwrFUe VsNMUb7SOYvJcAUZPkE17uP/view?usp=drive_lin k

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)

TKM College of Engineering has adopted an effective waste management system to promote environmental sustainability and hygiene. Solid waste management follows a systematic approach, beginning with segregation at the source and the use of strategically placed bins for biodegradable and non-biodegradable waste.

Biodegradable waste, such as food scraps, paper, and garden waste, which can decompose naturally, is either sent to private agencies for processing or managed on-campus through compost pits or incineration. The compost generated is utilized for gardening and agricultural purposes.

Non-biodegradable waste, including plastics, metals, and electronic waste, is systematically collected and sent to authorized scrap dealers for recycling. Outdated electronic equipment and e-waste are handed over to private agencies specializing in responsible disposal.

Additionally, a sewage treatment facility has been established to handle wastewater generated from the hostels.

These initiatives contribute to a cleaner campus and instill a sense of environmental responsibility among students and staff, fostering a sustainable and eco-friendly institutional environment.

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   **B. Any 3 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: **D. Any 1of 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:

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

B. Any 3 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	[View File](#)
Certification by the auditing agency	[View File](#)
Certificates of the awards received	[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, reader, scribe, soft copies of reading materials, screen reading, etc.

C. Any 2 of the above

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 has consistently demonstrated its commitment to fostering an inclusive environment by promoting tolerance and harmony across various forms of diversity. The institution actively embraces cultural, regional, linguistic, communal, and socio-economic differences, ensuring that all students feel valued and respected. By celebrating a wide range of cultural and religious festivals, the college nurtures a sense of community among students from diverse backgrounds. In addition, holidays are granted for significant cultural and religious events, reflecting the college's respect for the varied beliefs and practices of its students.

The college's affordable fee structure plays a crucial role in reducing financial barriers to education, thus promoting socio-economic inclusivity and equality. Adhering strictly to reservation policies, TKM College ensures equal opportunities for students from minority and underprivileged communities, creating a more equitable educational experience. Furthermore, the institution extends its support during times of crisis, such as natural disasters, by providing aid to affected communities, reinforcing its commitment to social solidarity and empathy.

The college also fosters cultural exchange programs, allowing students from different linguistic backgrounds to interact and build mutual understanding. These initiatives, along with the involvement of organizations like SPICMACAY, which promotes Indian classical music and culture, demonstrate the college's ongoing efforts to create a harmonious and inclusive atmosphere where diversity is celebrated 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:

TKM College of Engineering, established in 1958 by Janab Thangal Kunju Musaliar, actively promotes awareness of constitutional values, rights, and duties among its students and staff. The institution recognizes the critical role education plays in shaping responsible citizens who contribute to nation-building and societal progress.

Interactive sessions are organized to familiarize students and employees with the principles enshrined in the Constitution of India. Events like Constitution Day celebrations and thematic activities highlight fundamental rights, duties, and the importance of adhering to democratic principles.

To instill a sense of responsibility, the college integrates constitutional awareness into its curriculum and co-curricular activities. Programs on civic responsibilities, sustainable development, and gender equality are conducted, fostering an inclusive and equitable community.

The advisory system at TKM ensures continuous mentoring, focusing on ethical and social responsibilities. Students participate in initiatives like legal literacy camps, environmental conservation drives, and community outreach programs, emphasizing their role in upholding constitutional values.

By actively engaging its community in such endeavors, TKM College of Engineering not only educates but also empowers its students and employees to embody the ideals of justice, equality, liberty, and fraternity in their everyday lives.

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

C. Any 2 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

At TKM College of Engineering, we take pride in fostering a vibrant and inclusive campus culture by celebrating national and international commemorative days, events, and festivals. These occasions provide an opportunity for students and faculty to come together, reflect on shared values, and honor cultural, historical, and global milestones.

From observing significant national events like Independence Day, Republic Day, and Gandhi Jayanti to commemorating global occasions such as World Environment Day, International Women's Day, and

Engineers' Day, the institution ensures active participation and engagement from all.

Festivals representing diverse traditions, such as Onam, Holi, and Christmas, are celebrated with enthusiasm, symbolizing unity and cultural harmony. Academic events, awareness campaigns, and competitions are also organized to mark these special days, enriching the educational experience and creating socially responsible engineers.

Through these celebrations, TKM College of Engineering fosters a sense of belonging, respect for diversity, and a commitment to global citizenship among its students and faculty

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: Student Mentoring System through Advisory

Objectives: To provide academic, career, and emotional support while enhancing student engagement and performance.

Context: TKMCE introduced a structured mentoring system to address challenges like academic stress, career uncertainties, and emotional well-being, fostering a supportive teacher-student bond.

The Practice: Dedicated Mentoring system and financial Support for Needy Students

Evidence of Success: Increased student engagement in activities and competitions; Enhanced social responsibility through community service and strong alumni relationships with active contributions.

Challenges and Resources: Faculty time constraints; Student

reluctance to share personal challenges; Faculty training programs to improve mentoring skills.

Best Practice 2: Institute Social Outreach Programs

Objectives:To foster social responsibility and community engagement by involving students in real-world problem-solving, thereby strengthening the institution's connection with the community

Context: TKMCE recognizes the diverse socio-economic and environmental challenges faced by local communities and aims to address these issues by leveraging its technical expertise and resources .

The Practice: Initiatives include Wayanad relief program, various Programs organized

Evidence of Success: Enhanced student participation in community engagement activities, recognition received, improved visibility and reputation of TKMCE as a socially responsible institution

Challenges and Resources: Limited student participation during peak academic schedules and fundraising challenges

File Description	Documents
Best practices in the Institutional website	https://tkmce.ac.in/iqac-best-pracices
Any other relevant information	https://drive.google.com/file/d/1l7VGBnDtM WnvGHcorJg3GSDXJehrzkYH/view?usp=sharing

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 has upheld a rich tradition of excellence in engineering education, emphasizing both academic and community service.

The institute offers a holistic student mentoring system, where a group of 30 students is assigned a dedicated faculty advisor to ensure robust guidance and support. This system promotes strong

teacher-student relationships that extends beyond academics to address personal matters.

The college is committed to ensuring that financial constraints do not hinder education through initiatives like the Merit-Cum-Means Scholarship, funded by college staff. In addition, retired faculty and alumni have established several endowments and scholarships to further support students financially.

TKM consistently attracts top talent each year facilitated by its effective advisory system and nurturing environment. Its extensive alumni network, comprising 20 chapters worldwide, actively support various initiatives of the college. Notably, the alumni-led Back to Home project has received recognition from the United Nations.

Annual events like the Merit Evening are organized to honor student achievements. Meanwhile, the Career Guidance and Placement Unit plays a pivotal role in securing excellent placement opportunities, reporting 615 offers in 2023-24 alone

Achieving autonomy status and maintaining its commitment to affordable education, TKM admits students from the Kerala government's rank list at a nominal fee, ensuring accessible quality education for all.

Through these collective efforts, TKMCE continues to uphold its legacy of excellence and service, fostering an environment that nurtures academic achievement, physical well-being, and societal responsibility.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

The 2023 undergraduate curriculum integrates the concept of Curriculum for Pragmatic Learning (CPL) into all programs. This curriculum exposes students to both theoretical and practical engineering aspects, offering hands-on experience with the latest industry technologies and tools.

Over four years, students must complete 163 credits—160 from courses and 3 from activity points. The curriculum includes Program Core, Professional Elective, Project-Based Courses, and Open Elective Courses. It also features basic science courses with lab components, 4-hour lab courses, 1/2-hour theory courses, and 2-hour lab courses to ensure a comprehensive understanding of recent technological trends. These courses are designed in a student-centric manner, providing a well-rounded education with the flexibility to tailor the learning experience to individual interests and career goals.

The program also supports micro-specializations, Minor/Honors in Engineering, and industry internships, offering exposure to concepts and perspectives beyond the degree program. The curriculum introducessports and yoga, Universal Human Value programs and opportunities to participate in socially relevant projects. This diverse curriculum ensures that students gain higher order skills, nurture a holistic perspective and make meaningful contribution to the surrounding communities. Additionally, extracurricular activities allow students to earn activity points while developing 21st-century skills such as leadership, teamwork, and communication.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	https://docs.google.com/document/d/1PyWCV vBjArNVFS1EKJY8dVwWscFZtrlu/edit

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

9

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

52

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

50

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

17

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

In today's rapidly changing world, it is essential to cultivate a comprehensive understanding of life and increase students' awareness of its various dimensions, including individual, family, societal, and environmental aspects. This involves promoting self-reflection and nurturing a holistic perspective. Equally important is the focus on enhancing physical and mental well-being, facilitating all-round development, improving social skills, reducing stress, imparting life skills, and laying the foundation for a healthy and harmonious lifestyle. The 2023 curriculum effectively addresses these challenges through the following courses.

- Life Skills and Professional Ethics
- Universal Human Values-II
- Sports and Yoga
- Environmental Sciences
- Sustainable Engineering

To promote civic responsibility, develop leadership skills, and enhance students' understanding of social issues, the new curriculum includes course on Constitution of India and opportunities for students to engage in socially relevant projects. These projects not only allow students to earn activity points towards their credits but also foster a social and environmental outlook, positively impacting society.

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

`26`

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

`1375`

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

`1110`

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	https://drive.google.com/drive/folders/1g EdCgDgTdlnkyMR- fNSFINPZVwC95YhU?usp=sharing
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	A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.tkmce.ac.in/uploads/Survey%20 Result-Student%20satisfaction%20survey%20 2023-24_240530_231738.pdf
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

1226

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)

433

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

2.2 - Catering to Student Diversity

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

The newly admitted students will navigate the environmental transition from school to college through the Student Induction Program (SIP) which houses various discussions and activities. Faculty use assessment tools such as tests, quizzes, and assignments to track students' progress during academic delivery to categorize slow and advanced learners. The student's progress is monitored by the advisory committee, class committee, and course committee in all the departments. After the first internal examination, a review between HoD, senior advisor, subject coordinators, and student representatives in the class committee is done to assess the student's performance. The feedback from students and faculty is collected to understand the effectiveness of teaching and learning methods. Initiatives such as remedial classes, peer group learning, skill development workshops, and tutorials are conducted to help slow learners with their academics. Whereas, advanced learners are encouraged to enroll in Minors, Honors, workshops/conferences/hackathons, and MOOC courses. To aid with placements at higher semesters, 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
31/05/2024	4176	251

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:

With the attainment of autonomous stature in the year 2022, the revised curriculum provides different learning experiences by including project-based courses, lab-based courses, and skill development labs. Some of the techniques are listed below:

Experiential learning: Students are encouraged to pose questions, experiment, be creative, solve problems, be enthusiastic, assume responsibility, take challenges, and make decisions.

- Hands-on training is provided in 82 laboratories with sophisticated and modern experimental arrangements.

- Internships

- Industrial visits

- Technical fests

- Clubs and associations

- Project-based courses

- Lab-based courses

Participative learning: Students learn through interacting with each other, teachers, classroom, and society.

- Classroom learning is incorporated with expert lectures, student seminars & group activities to nurture active learning.

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- **Conferences, workshops, and seminars provide opportunities for students to participate and showcase their knowledge and skills.**

- **TED Talks, debates & panel discussions provide avenues to interact with advancements in different fields.**

- **Peer learning through mini-projects and final-year projects encourages shared learning.**

- **Panel Discussion and evaluation is conducted for architecture students keeping them abreast with the trends.**

Problem-solving methodologies: Students apply concepts to solve real-life problems which aid in attaining program outcomes.

- **Real-life problems**

- **Case studies**

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

All the teachers use ICT tools throughout the semester for the preparation of lecture planning, delivery of lectures, attendance entry, assignments, quizzes, and internal evaluations. All the 73 classrooms are ICT-enabled. Etlab is the teacher-student interface platform that facilitates Continuous Internal Assessment (CIA). Faculty can easily monitor student performance, upload course plans, class materials, generate quizzes, and video lectures required for learning. Etlab also enables the computation of Course Outcome attainments for different courses and thereby aids in identifying the gaps in teaching-learning methods. For the

autonomous batches, the different sets of question papers and answer schemes are generated in QNsmart, which are subjected to scrutiny by an internal and external examiner. This procedure finalizes question papers for the end-semester examination. After the end-semester examination, the answer scripts are scanned and uploaded in the exam portal and assigned to faculty for valuation in the tkmce exam portal. The strict guidelines for valuation timelines ensure the timely publishing of the end-semester results. TKMCE Mirror is the YouTube channel of the college that reaches out to the masses, especially our students to understand the concepts of theory and lab courses. Apart from this, many faculty have their channels for assisting the students

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.youtube.com/@tkmcemirror902?reload=9
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

223

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 curricular and co-curricular activity schedule for each semester. The number of working days is strictly followed as per the directive from Dean Academics after compensating for any loss of day. The dates for every club activity are also collected while preparing the Academic Calendar to facilitate the students' holistic growth. The Continuous Internal Assessment (CIA) is conducted as scheduled in the calendar. The advisory committee,

class committee, and course committee are functioning in all the departments to assess the students' progress and collect feedback from faculty and student. After each internal examination, a review between HoD, senior advisor, subject coordinators, and student representatives in class/course committee is done to assess the students' academic performance. The Central Examination Committee, led by Principal and representatives of all Departments, ensures the timely publication of internal exam timetables and the 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) / Department Quality Assurance Committe (DAQC) and once approved, uploaded as per schedule. The external Auditor appointed ensures compliance with the schedule.

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

246

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	No File Uploaded
Any additional information	No File Uploaded

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

80

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

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

2371

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

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

52

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

238

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

Etlab is the teacher-student interface platform that facilitates Continuous Internal Assessment (CIA). Faculty can easily monitor student performance, upload course plans, class materials, generate quizzes, and video lectures required for learning. After considering different internal tools for final sessional computation, suitable weightages are assigned based on mark distribution guidelines specified in syllabus. The students having attendance shortages need to fill out condonation form, and upload it along with medical certificate in Etlab. The condonation forms will be approved after verification by Senior advisor and Head of Department. The eligibility of each student to write end-semester examination is finalized based on attendance and internal marks. Furthermore, the autonomous status of the institution necessitates preparation of question banks for each subject using which final examination question papers are auto-generated in QNsmart portal. The different sets of question papers and answer schemes generated in QNsmart are subjected to scrutiny by an internal and external examiner. This procedure finalizes question papers for the end-semester examination. After the end-semester examination, the answer scripts are scanned and uploaded in the exam portal and assigned to faculty for valuation. The strict guidelines for valuation timelines ensure the timely publishing of the end-semester results.

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

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), Programme Specific Outcomes (PSOs), and Course Outcomes (COs) are endeavour to attain the Graduation Attributes (GA), which are essential for holistic development, are mentioned and displayed on the website and communicated with all stakeholders, utilising a variety of online and offline media. The Course Outcomes (COs) are designed in alignment with POs and PSOs by the subject group based on departmental norms and approved by the Department Academic Committee (DAC). The Course Outcomes are prescribed for all courses in 2019 Scheme Curriculum of the University and 2023 autonomous scheme. They are then made available in the Academic management system –ETLAB for reference to Students and Faculty.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	[View File](#)
Upload any additional information	[View File](#)
Link for additional Information	Nil

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

The primary goal of Outcome-Based Education (OBE) is to evaluate students' achievement of the Programme Outcomes (POs) defined by the NBA. Assessing Course Outcomes (COs) is the first step in this process, using both direct and indirect methods. Direct assessment reflects students' knowledge and skills through tools like internal assessments, assignments, and end-semester exams, providing robust evidence of learning. Indirect assessment involves a Course Exit Survey conducted at the semester's end.

Faculty frame COs, which are analyzed by the Department Academic Committee (DAC). CO-PO correlations are mapped at levels 1/2/3, and expected attainment levels are set. Direct CO attainment (CODirect) combines internal and external evaluation indices in a 60:40 ratio, while indirect attainment (COIndirect) is based on surveys. The overall CO attainment is calculated based on 80:20 ratio. PO attainment is similarly

evaluated. Direct PO attainment (PODirect) uses the CO-PO correlation matrix, while indirect attainment (POIndirect) uses surveys and activities like internships, technical events, and workshops. The overall PO attainment is the average across all courses mapping to the PO. DAC reviews outcomes and initiates improvements to meet targets.

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

939

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://www.tkmce.ac.in/iqac-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 activitieswith a clear-cut Research Policy. A

dedicated Research Dean is appointed to cater to the requirements of the Research Community. The Research Council consisting of the Research spearheading faculty representing all Departments support all 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:

- The Biomedical Engineering Research Lab in Department of Electronics and Communication Engineering (ECE), Partly sponsored by Emerald Group of Companies (Abu Dhabi, UAE), the lab will pioneer research in biomedical devices and AI-driven diagnostics
- The Electrical and Electronics Engineering department has set up a brand-new embedded systems laboratory for the studentsfor hands-on training to mould our students into industry-ready engineers.The systems are equipped with the latest version of STM32 cube IDE and nano edge AI, a platform used by reputed firms to train their systems with Machine Learning models.
- The Department of Civil Engineering and the Department of Architecture catering as an interdisciplinary hub for joint interactions and research works for Geoinformatics Research Laboratory. The systems are fully equipped with purchased version of ArcGIS 10.8, ageospatial softwareto view, edit, manage, analyze geographic data and patterns and to generate maps. There are other software like HECRAS, HECHMS, HECSSP, R-studio, QGIS and Google Earth pro installed in the systems.

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	No File Uploaded

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

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

0

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	**No File Uploaded**

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

2

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

3.2 - Resource Mobilization for Research

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

308.9

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

9

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://tkmce.ac.in/funded-projects.php
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

48

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

4

File Description	Documents
Supporting document from Funding Agencies	[View File](#)
Paste link to funding agencies' website	https://tkmce.ac.in/funded-projects.php
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.In 2023, we registered approximately nine startups under the IEDC (Innovation and Entrepreneurship Development Centre). The details are available in the report attached.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.iedctkmce.com/

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

14

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	**A. All of the above**

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

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

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

3.4.2.1 - Number of PhD students registered during the year

18

File Description	Documents
URL to the research page on HEI website	https://tkmce.ac.in/research-council
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	[View File](#)
Any additional information	**No File Uploaded**

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

102

File Description	Documents
List of research papers by title, author, department, and year of publication	[View File](#)
Any additional information	**No File Uploaded**

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

2

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	**No File Uploaded**
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
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	[View File](#)
Any additional information	**No File Uploaded**

3.5 - Consultancy

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

4678209

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

3397315

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.

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

2

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	**No File Uploaded**

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

45

File Description	Documents
Reports of the events organized	[View File](#)
Any additional information	**No File Uploaded**

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

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

11

File Description	Documents
Copies of documents highlighting collaboration	[View File](#)
Any additional information	**No File Uploaded**

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

18

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The institution boasts a well-planned and modern campus infrastructure designed to provide a seamless teaching-learning experience while supporting overall student well-being and development. Facilities adhere to AICTE and UGC norms, fostering a holistic and inclusive educational environment.

Key Features

- **Campus:**
    - Spanning 16 acres, offering a serene and conducive atmosphere for academic pursuits.
- **Classrooms and Labs:**
    - 83 classrooms:
        - 75 equipped with e-learning tools (LED projectors).
        - 8 smart classrooms with interactive smart boards.
    - 82 advanced laboratories for hands-on learning.
    - Central Computing Facility with 128 computers.
- **Event and Activity Spaces:**
    - 6 seminar halls and 8 departmental studios for academic and cultural activities.
    - A 1000-seat auditorium for events and celebrations.
    - Landscaped areas and informal gathering spaces for relaxation and collaboration.
- **Faculty and Administration:**
    - Faculty rooms to promote student-faculty interaction and collaborative learning.
    - 2 conference rooms and efficient examination management facilities.
- **Student Amenities:**
    - Medical and counseling services to support physical and mental well-being.
    - Comfortable residential accommodations across 12 blocks.
    - A well-maintained canteen offering nutritious and hygienic food.
    - Recreational spaces like the APJ Park, a hub for outdoor activities and events.

The institution's comprehensive infrastructure ensures a vibrant, student-focused campus that supports academic excellence, extracurricular engagement, and personal growth.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games

(indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The Department of Physical Education plays a pivotal role in promoting sports and fitness among students and staff. It focuses on maximizing student involvement in athletics and cultivating a positive attitude towards the importance of sports in overall well-being.

Key features :

- Organizing the annual sports meet for the TKM fraternity.
- Conducting regular training sessions and playoffs for students.
- Facilitating participation in college, intercollegiate, and university-level sports competitions.
- Holding periodic selection trials and camps to identify and form college sports teams for intercollegiate tournaments.

Additional facilities:

- A modern, well-equipped gymnasium with advanced multi-functional equipment is available for students and staff to improve physical and mental health.
- Comprehensive training facilities to support students involved in various sports.
- Observing International Yoga Day annually, with expert-led sessions for yoga and aerobics to enhance focus and flexibility.

Facilities for Cultural Activities

The institution provides a dynamic platform for cultural expression and engagement through:

- A state-of-the-art indoor auditorium with advanced audio-visual facilities, accommodating nearly 2,000 individuals, ideal for hosting major cultural events.
- A spacious open ground for hosting cultural and technical fests, capable of accommodating up to 1,000 participants.
- Multiple seminar halls for smaller gatherings, offering versatility for various cultural and academic purposes.

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/physical-education

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

89

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)

131.3

File Description	Documents
Upload audited utilization statements	[View File](#)
Details of Expenditure, excluding salary, during the years	[View File](#)
Any additional information	**No File Uploaded**

4.2 - Library as a Learning Resource

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

The institution's library is fully automated using an Integrated Library Management System (ILMS), ensuring efficient and user-friendly access to resources. Below are the highlights of the library's automation and digital initiatives:

- **Library Automation:**
  1. **Fully automated using KOHA Library Management Software for acquisition, circulation, cataloguing,**

and more.
   2. Online Public Access Catalogue (OPAC) integrated with the college portal, accessible globally.
   3. Features online search, renewal, reservation, and book purchase recommendations, especially beneficial for Divyangjan students.
- Pioneering Efforts:
   1. Started automation in 2004 with SOUL (Software for University Libraries).
   2. Transitioned to KOHA in 2014 and upgraded in 2020 for enhanced functionality.
- Technology Integration:
   1. Barcode technology for efficient book circulation.
   2. RFID (Radio Frequency Identification) for advanced resource management.
- Digital Resources:
   1. Digital Library with 20 PCs for accessing e-resources.
   2. Customized digital repository using Dspace software, featuring thesis, project reports, faculty publications, e-books, and question banks.
   3. Remote access portal and OPAC available via QR codes placed strategically on campus.

These initiatives underscore the institution's commitment to technological advancement and inclusive resource access.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/central-library

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)

29.6

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

159

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

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

The institution features a state-of-the-art IT infrastructure guided by a comprehensive IT policy covering Wi-Fi connectivity, cybersecurity, and system upgrades. The campus is equipped with a high-speed, robust network backbone, ensuring seamless connectivity and access to technological resources for students, faculty, and guests.

- **Comprehensive IT Policy:**
    - Covers critical aspects such as Wi-Fi, cybersecurity, and regular IT facility upgrades.
    - Dedicated budget allocated for continuous IT infrastructure enhancements.
- **Robust Network Backbone:**
    - Campus-wide high-speed network built on a DLINK switching platform with a 1 Gbps backbone.
    - 2000+ IP-enabled devices connected via a network of 10/100/1000 Mbps LAN.
    - Network backbone comprises Optical Fibre (OFC) and CAT 6 cabling connecting computing labs, classrooms, libraries, and offices to the Campus Networking Centre (CNC).
    - Upgraded infrastructure from 10/100 Mbps LAN to the current high-speed configuration.
- **Network Hardware:**
    - Utilizes switch models such as D-Link 3620, 3120, 1210, and 3160 to meet networking needs.
    - All core and distribution switches equipped with SFP ports for OFC uplink.
- **Wi-Fi Connectivity:**
    - Over 50 Wi-Fi access points deployed across the campus for seamless internet access.
    - Ruijie Wi-Fi controller ensures centralized authentication and management of access points.
    - Wi-Fi networks provide uninterrupted internet in hostels and campus areas for students, faculty, and guests.

The institution's IT infrastructure reflects a strong commitment to providing state-of-the-art technology and reliable connectivity to support academic and administrative excellence.

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional information	https://www.tkmce.ac.in/it-cell.php

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4176	1215

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

A. All four of the above

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.youtube.com/@tkmcemirror902
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)

1439. 5

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 committed to continuous improvement, addressing technological advancements, and enhancing infrastructure to support academic excellence. The institution adopts a structured approach to maintain and utilize its physical, academic, and support facilities effectively.

Key initiatives include the establishment of a centralized computing and interdisciplinary research facility under the RUSA fund to enhance research capabilities. The Innovation and Entrepreneurship Development Cell (IEDC) will be expanded to provide more space for business incubation.

A new department block for the Architecture branch will transform it into a center of excellence with state-of-the-art facilities. A modern classroom complex is planned to meet academic requirements, and Diamond Jubilee hostels will cater to increased student intake.

Advanced laboratories will be developed for areas like solar energy, geo-environmental engineering, water resources, tribology, composites, material testing, and thermal analysis. The Computer Science department will also gain a modern laboratory with advanced systems and software.

Support facilities include a 3,000-capacity convention center and an expanded examination center for streamlined processes. Maintenance of existing laboratories and minor civil works are routinely carried out.

The renaming of the Mechanical Workshop block to 'Somanath Centre' serves as a lasting tribute to Dr. Somanath's contributions, symbolizing the strong connection between the college and the achievements of its alumni.

Additionally, the establishment of a technology business

incubator under the Institution Innovation Cell (IIC) and an AICTE IDEA lab further highlights TKMCE's commitment to innovation and excellence.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/College-policies#

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

1248

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

127

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	**Nil**
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

495

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

436

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

41

File Description	Documents
Upload supporting data for students/alumni	[View File](#)
Details of students who went for higher education	[View File](#)
Any additional information	**No File Uploaded**

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

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

59

File Description	Documents
Upload supporting data for students/alumni	[View File](#)
Any additional information	[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

25

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. Apart from these two committees, the participation of student representatives is in the following bodies:

1. **Internal Quality Assurance Cell, IQAC**
2. **Class/Course Committees for each semester**
3. **Students Grievance Redressal Committee**
4. **Internal Compliance Committee**
5. **Library Council**
6. **Antidrug cell**
7. **Anti-ragging committee**
8. **SC/ST/OBC Committee**
9. **UHV Cell**
10. **Women's Cell**
11. **Sports Council**
12. **Hostel Management Committee**
13. **Canteen Committee**
14. **Department Associations**

The active participation of student representatives in various academic and administrative bodies plays a vital role in fostering transparency and accountability within the institution. The student representation not only empowers students to voice their opinions but also enhances the overall quality and effectiveness of institutional processes, ultimately contributing to a student-centric and transparent academic ecosystem.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://tkmce.ac.in/committee

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

24

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

5.4 - Alumni Engagement

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

The 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. The prominent alumni chapters include UAE, Singapore, USA, Oman, Kuwait, Europe, Saudi and Qatar.

The Alumni Association continued its active role in supporting various institutional projects and student welfare programs. Contributions from alumni members have been utilized for many activities like

- **Student awards and recognitions**
- **Establishment of APJ Dream Park at TKMCE (SEEDS 97 Incubation Centre)**

- Cutting edge workstation for doing student projects in CSE department
- Establishing Biomedical Signal Processing Lab in ECE department
- Signing of MoUs with foreign universities/research institutions
- Medical treatment support for needy students
- Construction of a brand-new house for a courageous survivor of the tragic endosulfan incident
- Contributions towards Wayanad Relief efforts
- Financial aids for national-level competitions

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	Nil

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 is distinguished by its robust organizational structure and effective leadership, ensuring strong governance. The Governing Body (GB), led by the TKM Trust Chairman and supported by the Principal as ex-officio secretary, comprises representatives from the TKM Institution Trust, Government of Kerala, and AICTE. The GB plays a pivotal role in college administration, convening annually to formulate policies, development plans, budget proposals, and staff appointments in alignment with regulatory guidelines.

Senior leadership promotes academic and administrative excellence by empowering faculty and fostering their involvement in institutional governance. Comprehensive induction training equips newly recruited faculty for their

roles, ensuring seamless integration. Statutory committees are systematically constituted to align decision-making processes with institutional goals. These committees, meeting regularly, focus on planning, quality improvement, research, student affairs, and library management.

Through collaborative decision-making and structured leadership, the institution effectively translates its vision into actionable outcomes, driving continuous growth and development.

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

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

Our mission and vision emphasize decentralizing power and fostering faculty involvement in institutional governance.

College Planning and Evaluation Committee implements the Governing Body's recommendations, manages the annual budget, and formulates institutional development plans.

Institute Level: The Principal oversees academic administration in line with University and AICTE guidelines. Regular meetings with Deans and the HoDs Council address teaching, research, industry collaborations, and outreach activities. Committees like IQAC, Examination Cell, and Research & IPR Council support academic and administrative functions.

Department Level: The HoD manages academics with support from committees like the Department Quality Assurance Cell and Department Management Committee, ensuring educational quality.

Participative Leadership: Administrative assistants handle office operations, while independent committees oversee various administrative tasks.

Academics: IQAC oversees academic activities at the institute level, while faculty serve as HoDs, academic coordinators, and committee members, contributing to smooth operations.

Student Support Systems: Faculty advisors mentor groups of 35-40 students, providing academic guidance and supporting student-focused committees for co-curricular and extracurricular activities.

This participative leadership model fosters collaboration, quality education, and institutional growth.

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

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 aims to enhance teaching, research, and extension activities, aligning with our vision and mission. Key highlights include:

1. Human Resource Management: Faculty and staff recruitment follow AICTE and Kerala Government policies. A dedicated board, with representatives from Kerala Government, APJAKTU, and external experts, oversees this process.

2. Industry Interaction and Collaboration: MoUs with leading universities foster partnerships for expert lectures, certificate courses, research initiatives, industry-related projects, and internships.

3. Research and Development: Faculty research is supported through the AICTE QIP initiative, with the institute recognized as a QIP research center by the Ministry of Education. Faculty members supervise Ph.D. scholars.

4. Teaching and Learning: Teaching processes are reviewed by course committees and stakeholder feedback. Students are encouraged to participate in conferences, workshops, study tours, and industry visits. E-learning is actively

promoted, with seamless online teaching during the COVID pandemic using platforms like Moodle.

5. **Library, ICT, and E-Governance: The library provides extensive e-learning resources and journal access. Infrastructure is regularly upgraded, and e-governance ensures efficient administration, teaching, admissions, exams, and financial operations.**

These initiatives collectively address industry and societal needs while fostering academic excellence.

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.

1. **Strategic Development Plan:**

   - **Aligns with the institute's vision and mission.**
   - **Sets short- and long-term goals to address industry and societal needs.**

2. **Human Resource Management:**

   - **Recruitment and pay scale adhere to AICTE and Kerala Government norms.**
   - **A diverse board with government, university, and expert representatives ensures robust governance.**

3. **Industry Interaction & Collaboration:**

   - **MoUs with leading universities foster expert lectures, certificate courses, internships, and**

industry-driven research projects.

4. Research and Development:

   ○ Recognized as an AICTE QIP research center by the Ministry of Education.
   ○ Faculty supervise Ph.D. scholars and actively engage in research.

5. Teaching and Learning:

   ○ Regular evaluations through course committees and stakeholder feedback.
   ○ Students participate in conferences, workshops, study tours, and industry visits.
   ○ Seamless transition to online teaching during COVID-19 using platforms like Moodle.

6. Library, ICT, and E-Governance:

   ○ Library offers e-resources and journal access.
   ○ Infrastructure is updated regularly.
   ○ E-governance optimizes administration, teaching, exams, admissions, and finance.

These efforts reflect efficient policies, a streamlined administrative setup, and adherence to service rules and procedures.

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/1ga0mBRScEJy_xTTceSokbqXQ0ZTDiqEl/view?usp=drive_link

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	B. Any three of the above

File Description	Documents
ERP (Enterprise Resource Planning) 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 staff well-being through structured welfare measures and robust feedback mechanisms.

Welfare Measures:

- Health: Comprehensive support includes life and group insurance, medical reimbursements, maternity (180 days) and paternity leave (10 days), along with commuted leave.
- Education: Faculty benefit from research opportunities under AICTE's QIP scheme, seed grants, publication incentives for SCI journals, financial support for faculty development programs, and soft skill training for non-teaching staff.
- Monetary: Financial security is ensured through provident fund, gratuity, pensions, travel concessions, festival advances, and allowances.
- Other Benefits: On-campus amenities include counseling services, medical facilities, sports, yoga, a gym, recreational trips, a staff club, ATM, canteen, bus services, and guest house access.

Feedback Mechanisms:

- Student Evaluation: Mid- and end-semester feedback on

faculty performance is collected via an academic management system.

- **Class Committee Meetings: Held regularly to address syllabus coverage, performance analysis, and general concerns.**
- **Career Advancement Scheme (CAS): Faculty promotions are based on academic performance and extracurricular contributions, following AICTE guidelines.**

This comprehensive approach fosters professional development and ensures staff well-being, contributing to a positive and growth-oriented institutional environment.

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

0

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

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

6

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

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

100

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Our institution ensures transparency and accountability through regular audits that encompass both academic and financial domains:

1. **Internal Financial Audits:**

    - **Regular audits of financial transactions are conducted by internal committees to maintain transparency.**
    - **The audits cover the office, laboratories, and other facilities to ensure proper utilization of funds.**

2. **External Financial Audits:**

    - **Third-party audits are conducted periodically to validate internal reports and ensure compliance**

with regulatory norms.
- These audits focus on grants, student fee management, and operational expenses.

3. Academic Audits:

- The institution conducts academic audits to evaluate the effectiveness of teaching, learning, and research processes.
- This includes a review of departmental activities, faculty performance, lab facilities, and student achievements.

Internal audits by a Chartered Accountant firm and external audits by the DTE and Accountant General ensure accountability. Audited financial statements are published on the college website, demonstrating transparency in financial operations.

These audits are integral to sustaining high standards of governance, financial prudence, and academic excellence. Regular monitoring ensures optimal resource allocation, accountability, and continuous improvement.

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)

52.27906

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

TKM College's finances are derived from three main sources:

1. Government Funding (85-90%): As an aided institution, the government covers salaries for permanent and guest faculty, tuition, scholarships, and research grants. Agencies like AICTE, UGC, CERD, and DST-FIST provide additional project-based funding.

2. Non-Government Contributions (1-3%): This includes support from alumni, the Parent-Teacher Association (PTA), and private donors, including companies and philanthropists.

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

Budget and Procurement Process

The budget is finalized by March 31st each year. Department heads submit proposals to the College Planning Board, reviewed and approved by the Governing Body. Purchases are managed via central and departmental committees, following a systematic process from intent to payment.

Audit and Transparency

Internal audits by a Chartered Accountant firm and external audits by the DTE and Accountant General ensure accountability. Audited financial statements are published on the college website, demonstrating transparency in financial operations.

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) of TKM College of Engineering, established in 2015, has been instrumental in institutionalizing quality assurance strategies. Guided by NAAC principles, its diverse team—comprising the Principal, trust members, faculty, administrators, local representatives, industrialists, and alumni—collaboratively drives quality enhancement.

Key initiatives during the preceding year include:

1. Autonomy Achievement: Secured 10-year autonomous status from UGC (Order No. F.22-1/2022(AC), dated 26/5/2022) and approval from APJAKTU (U.O. no. KTU/ASST11(ADMIN)/3212/2022, dated 02/09/2022).
2. Institutional Restructuring: Established Academic Council, Finance Committee, and Boards of Studies; appointed a Controller of Examinations.
3. Office Reorganization: Created a General Administration Division and Examination Wing to enhance efficiency.
4. Expert Consultations: Engaged specialists to streamline academic and administrative processes.
5. Academic Management System: Implemented for seamless planning and monitoring.
6. Comprehensive Calendars: Academic and examination schedules prepared and verified by IQAC.

These efforts underline IQAC's pivotal role in driving institutional excellence and ensuring continuous improvement.

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 Internal Quality Assurance Cell (IQAC) ensures departmental activities align with the institute's academic calendar via the Department Quality Assurance Cell (DQAC). Key initiatives include:

- Semester Orientation: Conducting advisory meetings or

induction programs to guide on Outcome-Based Education (OBE), curriculum, and the Academic Management System (AMS).

- **Course Delivery Monitoring:** Supervising course outcomes and Bloom's Taxonomy compliance through AMS, with defined assessment tools for continuous evaluation.
- **Examination Coordination:** Collaborating with the Examination Cell for seamless internal exams.
- **Learning Support:** Tracking real-time student progress through AMS and course committee meetings, organizing special programs for advanced and slow learners.
- **Feedback and Improvement:** Collecting and analyzing mid-term and end-term feedback on teaching and courses, implementing corrective actions via documented reports.
- **Result Analysis:** Evaluating academic outcomes and initiating remedial measures for improvement.

Additionally, IQAC conducts two academic audits per semester and reviews course plans and question papers to ensure continuous evaluation. The DQAC oversees these processes meticulously.

Parents and students can track progress through Etlab using login credentials. Anonymous feedback on curriculum and facilities from stakeholders is regularly reviewed, fostering transparency and teaching effectiveness.

Attachments include the detailed academic calendar and audit reports.

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/iqac-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	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Gender equity stands as a fundamental pillar of our college's values, manifested through an array of initiatives designed to cultivate a welcoming and nurturing educational atmosphere. We guarantee equal access to education via open admission channels and scholarships that cater to every student's needs, regardless of gender. We actively advocate for faculty diversity, implementing targeted strategies to combat unconscious biases in recruitment. Approximately 47% of the faculty members appointed are women. The college committees are also established to ensure balanced representation of both male and female faculty members.

The college diligently upholds gender-sensitive policies, equipping robust systems for reporting and tackling discrimination, harassment, and violence within the campus realm. Empowerment programs seamlessly link female students with accomplished professionals and alumni, weaving networks of motivation and mentorship. Workshops and seminars dedicated to women's leadership and career advancement further bolster these initiatives. The Women's Cell, steered by experienced faculty members, plays a crucial role in elevating the self-worth and confidence of female students and faculty alike.

In the realm of sports, it is ensured that girls are equally involved, and they have proudly secured numerous trophies for the college. The activities of college clubs are also executed with balanced participation from both boys and girl students. These initiatives collectively endeavor to forge a campus

culture that champions gender equity, empowering women to thrive both academically and personally, while contributing to a more inclusive community

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	[https://drive.google.com/file/d/1QgsxwrFU eVsNMUb7SOYvJcAUZPkE17uP/view?usp=drive_l ink](#)

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)

TKM College of Engineering has adopted an effective waste management system to promote environmental sustainability and hygiene. Solid waste management follows a systematic approach, beginning with segregation at the source and the use of strategically placed bins for biodegradable and non-biodegradable waste.

Biodegradable waste, such as food scraps, paper, and garden waste, which can decompose naturally, is either sent to private agencies for processing or managed on-campus through compost pits or incineration. The compost generated is utilized for gardening and agricultural purposes.

Non-biodegradable waste, including plastics, metals, and electronic waste, is systematically collected and sent to authorized scrap dealers for recycling. Outdated electronic equipment and e-waste are handed over to private agencies specializing in responsible disposal.

Additionally, a sewage treatment facility has been established to handle wastewater generated from the hostels.

These initiatives contribute to a cleaner campus and instill a sense of environmental responsibility among students and staff, fostering a sustainable and eco-friendly institutional environment.

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	B. Any 3 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	D. Any 1of 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

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	**B. Any 3 of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	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:	**C. Any 2 of the above**

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 has consistently demonstrated its commitment to fostering an inclusive environment by promoting tolerance and harmony across various forms of diversity. The institution actively embraces cultural, regional, linguistic, communal, and socio-economic differences, ensuring that all students feel valued and respected. By celebrating a wide range of cultural and religious festivals, the college nurtures a sense of community among students from diverse backgrounds. In addition, holidays are granted for significant cultural and religious events, reflecting the college's respect for the varied beliefs and practices of its students.

The college's affordable fee structure plays a crucial role in reducing financial barriers to education, thus promoting socio-economic inclusivity and equality. Adhering strictly to reservation policies, TKM College ensures equal opportunities for students from minority and underprivileged communities, creating a more equitable educational experience. Furthermore, the institution extends its support during times of crisis, such as natural disasters, by providing aid to affected communities, reinforcing its commitment to social solidarity and empathy.

The college also fosters cultural exchange programs, allowing students from different linguistic backgrounds to interact and build mutual understanding. These initiatives, along with the

involvement of organizations like SPICMACAY, which promotes Indian classical music and culture, demonstrate the college's ongoing efforts to create a harmonious and inclusive atmosphere where diversity is celebrated 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:

TKM College of Engineering, established in 1958 by Janab Thangal Kunju Musaliar, actively promotes awareness of constitutional values, rights, and duties among its students and staff. The institution recognizes the critical role education plays in shaping responsible citizens who contribute to nation-building and societal progress.

Interactive sessions are organized to familiarize students and employees with the principles enshrined in the Constitution of India. Events like Constitution Day celebrations and thematic activities highlight fundamental rights, duties, and the importance of adhering to democratic principles.

To instill a sense of responsibility, the college integrates constitutional awareness into its curriculum and co-curricular activities. Programs on civic responsibilities, sustainable development, and gender equality are conducted, fostering an inclusive and equitable community.

The advisory system at TKM ensures continuous mentoring, focusing on ethical and social responsibilities. Students participate in initiatives like legal literacy camps, environmental conservation drives, and community outreach programs, emphasizing their role in upholding constitutional values.

By actively engaging its community in such endeavors, TKM College of Engineering not only educates but also empowers its students and employees to embody the ideals of justice, equality, liberty, and fraternity in their everyday lives.

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

C. Any 2 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

At TKM College of Engineering, we take pride in fostering a vibrant and inclusive campus culture by celebrating national and international commemorative days, events, and festivals. These occasions provide an opportunity for students and faculty to come together, reflect on shared values, and honor cultural, historical, and global milestones.

From observing significant national events like Independence Day, Republic Day, and Gandhi Jayanti to commemorating global

occasions such as World Environment Day, International Women's Day, and Engineers' Day, the institution ensures active participation and engagement from all.

Festivals representing diverse traditions, such as Onam, Holi, and Christmas, are celebrated with enthusiasm, symbolizing unity and cultural harmony. Academic events, awareness campaigns, and competitions are also organized to mark these special days, enriching the educational experience and creating socially responsible engineers.

Through these celebrations, TKM College of Engineering fosters a sense of belonging, respect for diversity, and a commitment to global citizenship among its students and faculty

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: Student Mentoring System through Advisory

Objectives: To provide academic, career, and emotional support while enhancing student engagement and performance.

Context: TKMCE introduced a structured mentoring system to address challenges like academic stress, career uncertainties, and emotional well-being, fostering a supportive teacher-student bond.

The Practice: Dedicated Mentoring system and financial Support for Needy Students

Evidence of Success: Increased student engagement in activities and competitions; Enhanced social responsibility through community service and strong alumni relationships with active

contributions.

Challenges and Resources: Faculty time constraints; Student reluctance to share personal challenges; Faculty training programs to improve mentoring skills.

Best Practice 2: Institute Social Outreach Programs

Objectives:To foster social responsibility and community engagement by involving students in real-world problem-solving, thereby strengthening the institution's connection with the community

Context: TKMCE recognizes the diverse socio-economic and environmental challenges faced by local communities and aims to address these issues by leveraging its technical expertise and resources .

The Practice: Initiatives include Wayanad relief program, various Programs organized

Evidence of Success: Enhanced student participation in community engagement activities, recognition received, improved visibility and reputation of TKMCE as a socially responsible institution

Challenges and Resources: Limited student participation during peak academic schedules and fundraising challenges

File Description	Documents
Best practices in the Institutional website	https://tkmce.ac.in/iqac-best-pracices
Any other relevant information	https://drive.google.com/file/d/1l7VGBnDtMWnvGHcorJg3GSDXJehrzkYH/view?usp=sharing

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 has upheld a rich tradition of excellence in engineering education, emphasizing both academic and community service.

The institute offers a holistic student mentoring system, where a group of 30 students is assigned a dedicated faculty advisor to ensure robust guidance and support. This system promotes strong teacher-student relationships that extends beyond academics to address personal matters.

The college is committed to ensuring that financial constraints do not hinder education through initiatives like the Merit-Cum-Means Scholarship, funded by college staff. In addition, retired faculty and alumni have established several endowments and scholarships to further support students financially.

TKM consistently attracts top talent each year facilitated by its effective advisory system and nurturing environment. Its extensive alumni network, comprising 20 chapters worldwide, actively support various initiatives of the college. Notably, the alumni-led Back to Home project has received recognition from the United Nations.

Annual events like the Merit Evening are organized to honor student achievements. Meanwhile, the Career Guidance and Placement Unit plays a pivotal role in securing excellent placement opportunities, reporting 615 offers in 2023-24 alone

Achieving autonomy status and maintaining its commitment to affordable education, TKM admits students from the Kerala government's rank list at a nominal fee, ensuring accessible quality education for all.

Through these collective efforts, TKMCE continues to uphold its legacy of excellence and service, fostering an environment that nurtures academic achievement, physical well-being, and societal responsibility.

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

7.3.2 - Plan of action for the next academic year

1. Monitoring Teaching-Learning Process

• Ensure effective implementation of the new curriculum.

2. Faculty Placement and Promotion

• Facilitate placement and promotions as per the updated CAS rules.

3. LMS Upgradation

• Enhance functionalities of ETlab for improved efficiency.

4. Effective Use of LMS

• Promote and monitor the use of Learning Management Systems (LMS).

5. Guidance on OBE Implementation

• Monitor and support the implementation of Outcome-Based Education (OBE).

6. Timetable and Workload Monitoring

• Supervise timetable preparation and workload distribution across departments.

7. Binary Accreditation System

• Plan and prepare for activities aligned with the new binary accreditation system.

8. FDPs and Seminars

• Organize Faculty Development Programs and seminars on quality-related themes.

9. Student Induction Program

• Conduct comprehensive induction programs for new students.

10. Institutional Development Plan

• Prepare a detailed plan for the institution's development.

11. IQAC Activity Calendar

• Create an annual calendar for IQAC activities.

12. Staff Training

- Provide training for office staff to enhance efficiency and skills.

13. Administrative Planning

- Develop strategies for better data collection and analysis to support IQAC functions.