



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		T. K. M. COLLEGE OF ENGINEERING, KOLLAM
Name of the head of the Institution		Dr. T A SHAHUL HAMEED
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04742712024
Mobile no.		9847072024
Registered Email		principal@tkmce.ac.in
Alternate Email		iqac@tkmce.ac.in
Address		TKM College PO, Karicode
City/Town		Kollam
State/UT		Kerala
Pincode		691005
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Dr. Sadiq A.
Phone no/Alternate Phone no.	04742712024
Mobile no.	9497361282
Registered Email	principal@tkmce.ac.in
Alternate Email	iqac@tkmce.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://tkmce.ac.in/wp-content/uploads/2016/09/AQAR-2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://tkmce.ac.in/academic-calendar.html

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.11	2017	27-Nov-2017	26-Nov-2022

6. Date of Establishment of IQAC

13-Oct-2015

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Academic Audit (Internal)	14-Oct-2019 2	4000
Academic Audit (External)	06-Nov-2019	4000

	2	
NAAC-AQAR submitted	06-Dec-2019 365	4000
Conducted Students Induction Program	22-Jul-2019 16	850
NBA Accreditation visit for PE and CHE	29-Jan-2020 1	600
Data submitted for NIRF	27-Nov-2019 365	8000
Developed guidelines for online classes during COVID period	01-Mar-2020 300	4000
View File		

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. R Sheeba	Directorate of Environment And Climate Change, Govt. of Kerala	Directorate of Environment And Climate Change, Govt. of Kerala,	2019 730	675000
File with Data Attached	Attached	Attached	2020 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

1

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

NBA Accreditation

Introduced OBE Based Academic Management System

Conducted online FDP on 'Effective Utilization of Digital Platforms for Content Development and Delivery' during Aug 4-14, 2020

Developed guidelines to conduct online classes during Covid -19 lockdown period and implemented

[View File](#)

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Conduct Academic Audit	Conducted academic audit (Internal and external). The teaching learning process is made in alignment with that said by the University
Coordinate NBA visit for UG Programmes in Production Engineering and Chemical Engineering	UG Programme in Production Engineering got accredited
Conduct Student Induction Program (SIP) for first year students	Conducted the SIP
Submit DATA for NIRF ranking	Submitted and ranked within two hundred and fifty
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
BOG	01-Sep-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

29-Jan-2020

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission	26-May-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Linways AMS is the web based management information system used in the college, which includes the domains for managing academics, research, faculty credentials and student admissions. It is a platform that supports Outcome Based Education. It gives controlled access to students to get their realtime academic progress and parents can view the academic activities and progress of their ward. Faculties and administrators also perform their academic related activities in this system at various levels. It enables the students, parents, teachers and administrators to monitor the performance of students from anywhere at anytime. Faculty updates the academic data and monitors student performance through this platform. The teaching plan, teaching notes, assignment questions and question bank are uploaded on the Linways AMS for the use of the students. Online tests and quizzes can also be done with this AMS. The evaluation of teachers by students is also done for every course through this to obtain feedback in teaching. It has various modules for course file, course diary, defining CO, PO, PSO, COPO and COPSO mappings, COPO index computation, internal evaluation results and reports, progress report, class performance statistics, teacher evaluation, attendance, student personal data, announcements/notices, leave submission facility, timetable, grievance redressal and so on. Various Modules in the AMS are: 1. Course Material Distribution 2. Class and college Timetable Management 3. Publishing of Marks 4. Attendance Marking and Report Generation 5. Performance Analysis using Graphs 6. Lesson Planner 7. Student Course Planner 8. Messaging (SMS, Email and Notice board) 9. Online Examination and Marks Analysis 10. Document Repository 11. Digital Library 12. Parents Portal 13. Faculty Evaluation (Feedback) 14. Examination Management with Seating</p>

Arrangement 15. Placement and Training
Activity Management 16. Human resources
information system 17. Student fee
collection (Basic) 18. Faculty
Appraisal management 19. Online
Admission management 20. NBA
accreditation report generation 21.
NAAC Report management

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The institution meticulously plans for effective implementation of the curriculum. The process is detailed below: In the beginning of the academic semester, the college prepares an academic calendar (semester-wise academic schedule) comprising the entire schedule for the semester. This is followed by an academic budget which enlists the academic programs for the respective semester with a budget planning. The College Planning Committee (CPC) scrutinizes and approves the budgets of programs listed and is forwarded to the Principal for necessary allocation of funds to individual departments. Before the end of current semester, the courses for next semester from curriculum are allotted to the faculty. The subject priorities of faculty are presented before the Department Academic Committee (DAC) and approved. Options are given to students for selecting the elective courses, which in turn is consolidated by the Senior Advisor and presented to DAC. The opted courses are allocated to faculty based on their field of specialization, number of times the course taught and experience. In the beginning of each semester, a course plan is prepared. The concerned faculty for each course prepares a detailed lesson plan, giving the units of the syllabus and proposed date of completion of the unit. It also provides information about the text books to be followed and the books for reference. A schedule for internal assessments is also prepared (internal assessment schedule) and distributed to students so as to avoid clustering of assessments during a particular period. The academic calendar and schedule of internal assessment are uploaded in Linways AMS (the campus management software) and college website. These can be easily accessed by the students. Course files are prepared and maintained by the faculty which includes syllabus, course plan, teaching materials, tutorials, assignments, internal test question papers, previous year University question papers etc. Laboratory manuals are prepared incorporating detailed procedures for conducting of experiments. Apart from regular classes, seminars are conducted to enhance the presentation and communication skills of students. The Department Quality Assurance Cell (DQAC) approves the course plan for various courses and scrutinizes the question papers submitted for continuous evaluation (Two Internal assessment test). Academic Committee monitors the functioning of course committee and class committees. The course committee reviews the conduct of the courses, adherence to the course plans and time schedule, completion of the syllabus and standards of internal tests. Suitable remedial actions needed for the successful conduct of the course are decided by DQAC. The parents and students can access Linways AMS using the login provided to them to know about the academic progress. Mid-term and end-term feedbacks for Teachers' Evaluations are collected from students and analysis is done for improving the teaching-learning process. The Institute has student chapters of professional societies like IEEE, ISTE, IEI, MEA, IGS, IETE, IICHe, CSI, SAE which organise

co-curricular activities for skill up-gradation and to inculcate a social commitment in the students. The NPTEL student chapter assist the students to enroll and successfully complete the MOOC based learning courses by IITs.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
MEP Course- HVAC Date-10, 11 12 October 2019	Nil	10/10/2019	3	Employability Enhancement	Additional Skill development in HVAC
MEP Course- MEP Date-13, 17 18 October 2019	Nil	13/10/2019	3	Employability Enhancement	Additional Skill development in MEP
MEP Course- Fire Fighting	Nil	19/10/2019	2	Employability Enhancement	Additional Skill development in Firefighting

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	NIL	Nil

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	95	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
NIL	Nil	Nil
No file uploaded.		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Chemical Engineering	39
BTech	Civil Engineering	93

BTech	Electrical and Electronics Engineering	130
BTech	Electronics and Communication Engineering	135
BTech	Mechanical Engineering	99
Mtech	Civil Engineering	18
BArch	Architecture	164
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained
<p>The institution encourages the practice of obtaining feedback from various stakeholders such as students, alumni, faculty from other institutes, parents and eminent personality from Industry and Government organisations. During the starting of every semester, Student Advisory Meeting will be conducted for every class for the students to introduce about the curriculum, syllabus, curricular, extracurricular activities, etc.. The class committee meetings that are held twice in a semester, that provide a platform for the students to discuss academic and non-academic matters, and provide feedback. Parent-Teacher Association (PTA) meetings are held periodically and the feedbacks / suggestions obtained are analyzed and utilized in improving the academic and other activities. The alumni surveys and employer surveys are conducted in every year to obtain constructive suggestions in improving the curriculum. The valuable suggestions from industrial personnel during the meetings / industrial visits about the suggested changes the curriculum that needs to match with the needs of the industry are duly communicated to the University. The institute also collects feedback on the performance of our students from the recruiters. This enables the institution to understand what industry expects from the students and modify the action plan accordingly. The college is often visited by academicians within India and also from abroad. Their views on the curriculum are obtained and efforts are made to incorporate the same. The institution takes part in the curriculum development process through appropriate analysis of feedback given by the various stakeholders from time to time and utilizes these suggestions for modifying curriculum. All the relevant suggestions from various stakeholders about curriculum are communicated to the University through syllabus committee members, BoS meetings or during syllabus revision process.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the	Programme	Number of seats	Number of	Students Enrolled
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Programme	Specialization	available	Application received	
Mtech	File Attached	Nil	Nil	Nil
BTech	Civil Engineering	120	142	142
View File				

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3500	349	168	8	45

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
221	221	10	75	75	11

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The college has a very powerful and effective mentoring system (advisory system) to support activities of the students. The advisory system consists of a senior advisor and an advisor for approximately 30 students of each batch. The system helps the students in their academic and personal matters and provides all support in case of any grievance. The advisors maintain good rapport with parents to support such activities. In addition to that, Student Grievance Cell and a Women's Grievance Cell are functioning effectively in the campus to address grievances if any, of students. The college has appointed a professional counsellor on a regular basis to provide personal support to students. Separate Counselling Room is provided for the same. Counselling classes are given to students individually and in groups, to propagate the need to elude from the use of drugs and unhealthy habits. Motivational classes are arranged in association with advisory team for boosting the confidence level of weaker students. Awareness programmes on rules and regulations of the institute, anti-ragging measures taken by the institute, policies of anti-ragging cell are conducted for the first year students. Group Counselling on public speaking, stress management, CV preparations, effective communication skills are also conducted regularly.

Progress report indicating performance in internal tests, assignments and attendance of all students are uploaded in Linways AMS. The students and parents can get the details by visiting the website making use of their respective user IDs. Progress reports including the University marks are sent to parents. Parents of underperforming students are informed by the faculty advisor over phone and they are directed to meet the HoD and the faculty handling classes. Class-wise PTA meetings are held during each semester and steps to correct and improve performance of the students are thoroughly discussed during the interaction among faculty advisor, HoD, other staff members, parents and students. The same will be implemented and progress is monitored. In addition to the scholarships given by external agencies, the college also gives an Institute level scholarship known as TKM Merit-cum-Means scholarship (TKM MCM) for the bright and needy students. This scholarship is given exclusively from a monthly voluntary contribution from the entire staff of the institution. The MCM scheme is to provide financial assistance to the poor and meritorious students to enable them to pursue professional courses. The alumni association gives merit awards the top performing students in each branch.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
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3849

221

1:30

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
184	179	5	14	63

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Bijuna Kunju K	Professor	Outstanding WIE volunteer award (IEEE)
2019	Sunitha Beevi K	Assistant Professor	Received appreciation certificate from Kerala section for the tireless effort in support of the IEEE Kerala WIE AG, recognized as the 2019 Women in Engineering AG of the Year
2019	Dr. Mathew P Abraham	Assistant Professor	Awarded International Travel Support grant by DST, Govt. of India for attending Summer School on Centralized and Distributed Multi Agent Optimization: Models and Algorithms, Cetraro, Italy.
2019	Anantha Padmanabhan N K	Assistant Professor	Merit certificate for completing task based training by e-yantra, IIT Mumbai and cash award for completing in stipulate time
2019	Dr. Nissan Kunju	Assistant Professor	Member of winning team e-yantra TBT challenge, an IIT B initiative
2020	Shafi M N	Assistant Professor	Member of winning team e-yantra TBT

			challenge, an IIT B initiative
2019	Sunitha Beevi K	Assistant Professor	Received appreciation certificate from the Director, IEEE Region 10 for rendering exemplary service as Finance co-chair for IEEE TENCON-2019
2019	Dr.Adarsh S.	Associate Professor	Outstanding reviewer recognition from ASCE Journal of Hydrologic Engineering.
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Mtech	File Attached	S1	19/12/2019	07/05/2020
BTech	UG	S1	19/12/2019	07/05/2020
View File				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institute has made its own reforms in the evaluation process at college level. The institute is presently following outcome based evaluation on various Graduate Attributes. For this, the institute has specified POs as suggested by National Board of Accreditation (NBA). Each programme has published PSOs as well. The individual department in the institute utilize rubrics for assessing POs. The Course Outcomes (COs) are oriented to match with POs that are to be attained through a course. For various courses, the students are subjected to various Continuous Assessment (CA) procedures, namely, assignments, quizzes, tutorials, mini-projects, filed-works and class-seminars. These are evaluated by the faculty-in-charge of the course. Two internal examinations (Series Tests) are also conducted in every semester. Questions are formulated to assess the corresponding COs. Every semester, students are further evaluated by the University Exam (summative assessment) for maximum marks of 100. The total marks scored for a course is taken as 150, which is the sum of CA marks (50) and University Exam marks (100). The CA marks for the individual courses shall be computed by giving weightage to Attendance, Series tests and different assignments. The Department Academic Coordinators are entrusted to collect and consolidate the results from the faculty members. The Continuous Assessment (CA) procedure enlightens the faculty in charge about the strengths and weaknesses of the class. This further helps the faculty to suitably modify the course delivery measures, identify the shortcomings in students and gives them an opportunity to improve their skills through various activities.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250

words)

At the beginning of each semester, the academic calendar will be prepared by the Dean (Academics) will be presented in the HoD meeting. The approved draft will be discussed further in the departmental meetings and presented in the Department Academic Committee (DAC) / faculty meeting. The approved academic calendar is then published in the college website along with a schedule of internal assessment for each department. The institute develops the academic calendar in line with the calendar published by the University.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://tkmce.ac.in/pos-and-psos.html>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BTech	Civil Engineering	147	106	72.1
PG	Mtech	Computer Sc and Engineering	15	14	93.33
UG	BTech	FILE ATTACHED	Null	Null	0

[View File](#)

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://tkmce.ac.in/wp-content/uploads/2016/09/STUDENT-SATISFACTION-SURVEY-AY-2019-20.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	365	TEQIP	1.5	0.11
Projects sponsored by the University	0	File Attached	0	0

[View File](#)

3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
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Environmental issues of Kuttanad region and their relation to hydrology of the water system	Civil Engineering	17/07/2019
An Introduction to QGIS	Civil Engineering	05/07/2019
Non-destructive Testing	Civil Engineering	19/01/2019
Estimation and Construction Costing	Civil Engineering	15/10/2019
Civil Engineering Drafting and Analyzing Softwares	Civil Engineering	18/10/2019
Bit coin and Block chain Technologies	MCA	11/10/2019
Machine Learning with Python	MCA	22/11/2019
Hands on training on PHP Programming	MCA	23/11/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Emergency ventilator	Prof. Shafi M N, MUHAMMED SYEDALI N.	APJAKTU	13/04/2020	student innovation
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
TKMCE	IEDC	Nil	Vector	Electrical and Electronics IoT product development	25/09/2019
TKMCE	IEDC	Nil	Designova	Branding	20/12/2019
TKMCE	IEDC	Nil	Tink Dynamics	Swarm Drone technologies	10/08/2019
TKMCE	IEDC	Nil	Agrivator	Agriculture	10/08/2019
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
00	00	00

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
00	Nil

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	EEE	12	2.5
National	FILE Attached	Nil	0
International	FILE Attached	Nil	0

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electrical and Electronics Engineering	30
Computer Science and Engineering	9
Mechanical Engineering Department	5
Electronics and Communication Engineering	27

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
File Attached	Faculty	File Attached	2019	0	TKM College of Engineering	Nil
Residential load scheduling with renewable generation in the smart grid : A reinforcement learning approach	Dr Imthias Ahmed T. P	IEEE Systems Journal	2019	14	TKM College of Engineering	Nil

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Automatic Mitosis	Dr. Sabeena Beevi K	Biocybernetics and Biomedical	2019	6	11	Department of EEE,

Detection in Breast Histopathology Images Using Convolutional Neural Network based Deep Transfer Learning		Engineering				TKMCE
File Attached	Faculty	File Attached	2019	Nil	Nil	TKM College of Engineering
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	15	4	63	28
Resource persons	4	2	5	4
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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
File Attached	File Attached	Nil	Nil
NEET HELP DESK	NSS	2	20
View File			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Nil	Nil	Nil	Nil
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Clean Campus, Green Campus	NSS	SAPLING DISTRIBUTION AT HARIJAN SCHOOL	3	30

File Attached	TKMCE	File Attached	Nil	Nil
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Solar Powered Grid Connected Electric Vehicle Charging Station At Chinnakkada	Dr. Sheeba R, Dr. Sheik Muhammed	Directorate of Environment And Climate Change, Govt. of Kerala	365
File attached	File attached	File attached	0
View File			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Training-Purpose driven study	Sea water intrusion in coast of Kerala State at Pallikkal River	Department of Irrigation, Hydrology Division Chengannur, Kerala	13/02/2020	14/02/2020	25
File Attached	File Attached	File Attached	13/02/2020	14/02/2020	0
View File					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Near East University Turkish Cyprus	17/01/2020	Joint educational, training and/or research/project activities.	1
File Attached	17/01/2020	File Attached	Nil
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
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2000000

17631064

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Fully	3.16.09	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	83281	Nil	2479	2649287	85760	2649287
e-Books	912	242804	1140	336970	2052	579774
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof. Kavitha Madhu	Module - 4 5	ASAP	09/05/2020
Dr. Anu N.	CH404 Safety Engineering in Process Plants (Module 4)	ASAP	11/05/2020
Prof. Amal G. S.	CH312 Chemical Engineering Design-1 (Module 1)	ASAP	12/05/2020
Dr Shemim S S	EM Theory	You tube videos	27/03/2020
Various Faculty	Engineering Technology	TKMCE MIRROR (Youtube Channel)	30/04/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1008	724	1008	31	130	26	96	280	0
Added	65	44	65	0	0	1	21	0	0
Total	1073	768	1073	31	130	27	117	280	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

280 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Video Recording Studio	https://www.youtube.com/channel/UCw3LncjC-4ulpOXAB-D72fA

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
14310000	10365769	8650000	8271382

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The annual budget and allocation of funds for regular monitoring of utilization of funds for maintenance, ensures the up-keeping of the infrastructure in the institute. The college has an Infrastructure Committee which is assigned the task of maintenance and upkeep of the infrastructure. Each department has representatives in it. The day to day maintenance of the general infrastructure is done by a Facilities Management Committee. Each laboratory is under a Lab-in-charge and assistant Lab-in-charge. The technical staff of the laboratory performs the duty of maintenance and upkeep of the equipment. Annual stock verification of all the equipments of the college is performed by a committee constituted by the Principal for that purpose. The Campus Networking Centre maintains the IT services needed for the staff and students of the college. Facilities Management Committee (FMC) The FMC has Engineering Cell, Cleanliness Cell and an Engineering and Cleanliness Help Desk under it. The FMC has a Chief Coordinator and separate coordinators for each engineering division. The important duties entrusted to the Chief Coordinator of FMC are Operation Management of Engineering, Cleanliness Cell and Annual Budget Preparation. The Chief Coordinator of FMC reports to the head of Institution. The FMC is the committee-in-charge of all facilities in the campus and they conduct scheduled routine inspection and do the monitoring of department facilities such as smart classrooms, tutorial rooms, seminar rooms, labs, workshops etc. Any complaint or shortcoming on facilities reported, will

be inspected and appropriate action will be taken to resolve it. The Chief Coordinator has been entrusted to make a proposal for future planning / preventive maintenance and cleanliness. There is a faculty in-charge from each department who will be working in coordination with the Chief Coordinator of FMC. For the proper functioning of all activities during the time of power failures, adequate measures have been taken. Generators of specifications 200 kVA (two numbers) and 30 kVA are available in the institute, which ensure that there is no power supply interruption in the conduct of the academic activities in the smart class rooms of the college during any situation of power supply disturbance from external lines. To provide reliable back up power, steps are taken to install a new 500 kVA generator. There is a centralized UPS system to ensure the functioning of the computer laboratories, sensitive equipments in all labs and seminar halls in each department. In addition, all the departments with computer laboratory facility have their own UPS. Timely monitoring is done to ensure that the systems and the batteries are working well. The technical staff in charge is entrusted with this job. The electrical works section under FMC works in coordination with the Department of Electrical and Electronics Engineering for proper guidance. The rain water harvesting system in the college ensures continuous availability of water in the dug wells and thereby ensures constant supply of water in the college.

<http://tkmce.ac.in/other-facilities.html>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	TKM Merit Cum Means Scholarship	52	780000
Financial Support from Other Sources			
a) National	See The Attached Excel Sheet	Nil	0
b) International	See The Attached Excel Sheet	Nil	0
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Aptitude test and Soft skill training programme	01/08/2019	842	Career Avenues, Pragmatix, Jays Academy
File attached	01/08/2019	Nil	File attached
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling	Number of students who have passed in the comp. exam	Number of students placed

			activities		
2019	Career Road Map and Introduction to Training and Placement	774	774	80	538
2019	File attached	Nil	Nil	Nil	Nil
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
INFOSYS	208	54	AMAZON	80	1
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	10	B.Tech	Chemical Engineering	IIT Kharagpur	M.Tech
2019	Nil	File attached	File attached	File attached	File attached
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	53
GRE	6
TOFEL	8
Civil Services	1
Any Other	8
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
----------	-------	------------------------

Inter Collegiate	KTU Zone Cricket Men tournament 2019-20, 24th to 7th November 2019	16
File attached	File attached	Nil
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Inter University Sports Championship	National	1	Nil	A1	AKIF INNAYATH
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Every year students elect their representatives to form the College Students Union and their respective association secretaries through the college union election. The college provides a college union fund, which is collected from the students for the union activities along with the first installment of tuition fees at the beginning of each academic year and the same is credited to the college union fund. The college union has an Executive Committee consisting of Chairman, Vice Chairman (Reserved for Lady), General Secretary, Representative to the University Union (Two Members), Editor of the College Magazine, Arts Club Secretary, Secretary of Sports, One member representing the students of each year elected by the students of respective year among themselves, Two lady representatives elected by the lady students of the college from among themselves, Association Secretary for each department, One member representing the students belonging to the SC/ST, to be nominated by the Executive Committee in case of none of the elected members belong to SC/ST, Honorable Treasurer and Staff Advisor (Ex-officio). In addition, they select the representatives and office bearers of Students Welfare Committee and Student's Affairs Committee. The college has various academic and administrative bodies that have student representatives in them as given below:

(a) Internal Quality Assurance Cell (IQAC) (b) College Union (c) Course Committees (d) Hostel Management Committee (HMC) (e) Students Welfare Committee (SWC) (f) Students Affairs Committee (SAC) (g) National Service Scheme (NSS) (h) Career Guidance and Placement Unit (CGPU) (i) Students Grievance Cell (j) Women Cell (k) Library Council (l) Energy Management Cell (m) Environment Management Cell.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The name of the Association shall be " The TKM College of Engineering Alumni Association" registered as per the provisions of Travancore Cochin Literary Scientific and Charitable Societies Act 1995. The objects of the Association are : a. To maintain the contacts of the Alumni with the almatater. b. To foster the relationship between the past and the present student of the Institution. c. To keep the old students informed of the growth and development

of the Institution. d. To give an opportunity to the old students of the Institution to take part in the responsible task of the building up and maintaining the traditions of the Institution. e. To serve as a forum striving to get a proper blending of the theoretical and practical aspects of Engineering. f. To sponsor prizes, Scholarships, book banks etc. for the students of the college. g. To help the students passing out of the college in securing employment consistent with their qualifications. All the past students of the College are eligible to become members of the Association. There are five classes of members namely Patrons, Life Members, Ordinary Members, Honorary Member and Associate Members. Patrons, Associate Life Members, Honorary Members and Associate Members can enjoy all the privileges of the association except that of voting at the Annual General Body Meeting. During any year the Association shall consist of all the Patrons, Life Members, Ordinary Members, Honorary Members, Associate Life Members and Associate Members. The affairs of the Association is managed by an Executive Committee consisting of a President, A Chairman, Four Vice Presidents, Two Secretaries, a Treasurer and sixteen other members. The Executive Committee shall have the power to constitute Sub Committees to further activities of the Association. The Principal shall be the Ex Officio President of the Association. The Chairman is elected from amongst the past students. Three Vice Presidents are elected from amongst the past students and the other Vice - President from among the Teaching Staff of the College. One Secretary is elected from amongst the past students and the other from the Teaching Staff of the College. The Treasurer is elected from the Teaching Staff of the College. All classes of members shall be eligible for election as members of the Executive Committee. All the Office bearers of the Association shall be elected once a year at the Annual General Body Meeting of the Association which shall be held normally on January 26th of the academic year of the College. Students of the final year class of the College get themselves enrolled as members of the association by paying the entrance fee and the annual subscription for the next year.

5.4.2 – No. of enrolled Alumni:

700

5.4.3 – Alumni contribution during the year (in Rupees) :

1412464

5.4.4 – Meetings/activities organized by Alumni Association :

1. Annual Alumni Meeting on 26-01-2020. 2. Building and Rebuilding of Flood affected Houses - Back-to-Home Project in connection with Kerala Flood Relief Activity. 3. Financially Supported Alumni Association supported programs: a. The students of MCA (S3) to participate in the national level competition, "NASA, Space Application Challenge 24 hours Hackathon at Delhi, Noida . b. The students of TKMCE for the conduct of "Trika'20 c. The students of EEE to go for a competition 4. "Centre for civil service Aspirants" - Modernization of Main Library 5. Alumni Merit Evening 2020 (Conducted on 20/11/2020)

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The college ensures decentralization of activities and participative management in all possible avenues permitted within the regulations of functioning. The following points may be noted with regard to the operational autonomy of individual departments: 1. The Department is headed by the HOD, who is assisted by the Academic Coordinator in curricular matters. 2. Every department has

Department Management Committee (DMC), which is an active body in the department to decide on important academic and disciplinary matters of the department. This DMC has defined set of members, which will change periodically by the order of Principal. 3. Every Department prepares their budget and will be discussed in the DMC. This budget approved in DMC will be submitted to the Central Planning Committee of the college for approval. 4. The Departments are given a corpus fund for their emergency expense and the HOD has the power to decide the expenditure. 5. Each laboratory is managed by two faculty members who function as the lab in charge and assistant lab in charge. Technical staff is also allotted to each lab. 6. Each batch of students has a Senior Faculty Advisor and four/ five Advisors, to support the curricular and personal matters. The Senior Advisor, through Class Committee Meetings, ensures that the classes are conducted well. 7. Feedback from staff and students are collected through various forums to get suggestions on the electives to be offered, monitor the pace of subject coverage, improve the quality of the classes, industrial interactions, etc. and corrective actions are taken, if needed. 8. Co-curricular and extracurricular activities function through clubs/ committees/ cells/ chapters and enjoy autonomy in their operations. 9. The Career Guidance and Placement Unit (CGPU) was restructured with more involvement from the individual academic departments. A four tier structure was formulated with more participation from the Management, Department, and students.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Industry Interaction / Collaboration	Conducts Expert lectures by industry personnel. Projects of students are guided by industry experts. Industry related issues are solved as projects by students and faculty. Students' internship in industries and reputed institutions. Installed Testing center/ Research center funded by industries. Continuous industry linkage by CGPU for career guidance activities.
Human Resource Management	Recruitment of faculty and staff is done by an interview board consisting of members representing Kerala Government, APJAKTU, External Subject Expert chosen by Directorate of Technical Education, Management etc., as per the guidelines of AICTE and Government of Kerala. Follows career advancement policies framed by the Government of Kerala. Pay revisions as per the norms laid down by AICTE and Government of Kerala.
Library, ICT and Physical Infrastructure / Instrumentation	Well equipped library with e-learning facility. Subscribed to renowned International Journals. Physical infrastructure is updated frequently based on various needs.

Research and Development	Promote research of faculty under QIP at premier institutes. Fulltime and Part-time Ph.D. research scholars are being guided by faculties. The institute is a QIP research center approved by MoE (previously, MHRD). Signed MoUs with industries, research organizations and universities of India and abroad. Received infrastructure developments from various funding bodies (MODROBS, RPS, DST/ISRO Projects).
Examination and Evaluation	The internal tests are conducted by the institution as per the guidelines of APJAKTU. The end semester examinations are conducted by APJAKTU at the institution. The institute is a Centralized Valuation centre for UG and PG programmes.
Teaching and Learning	The course committees and subject groups formed evaluate the teaching learning process. Structured evaluation of teachers by students. Remedial classes for students. Taken feedback from stakeholders periodically. Students encouraged to participate in conferences, workshops, technical fests organized by other institutes and professional societies. Study tours or industry visits for learning beyond the curriculum. Professional society activities The institute impart quality education by encouraging e-learning facility through NPTEL lectures, QEEE classes etc. Learning through FAB Lab and activities of Innovation Entrepreneur Development Cell. Promote internship in reputed institutes and industries
Curriculum Development	The syllabus and curriculum designed by APJ Abdul Kalam Kerala Technological university is followed. The senior faculty members play major role in APJ KTU committees for syllabus revision.
Admission of Students	The strategy followed is that prescribed by the State Government.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Administration	Internal messaging service to communicate with the employees.
Finance and Accounts	SPARK web portal by Govt. of Kerala (spark.gov.in)
Student Admission and Support	Managed through the web based Academic Management System, Linways AMS

(tkmce.linways.com)

Examination

Internal examination e-governance using Linways . University examination e-governance using APJAKTU portal (https://app.ktu.edu.in/login.jsp).

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Dr Shafi K A	Faculty Development Programme on The Art of Teaching and Learning Engineering Graphics during 30th December 2019-3rd January 2020 at NIT, Calicut	NA	6386
2020	File attached	File attached	File attached	Nil

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	FDP on "Electric Vehicle: Development, Integration and Challenges" Organized by Dept of EEE, TKMCE	NA	08/07/2019	12/07/2019	73	Nil
2020	File attached	File attached	08/07/2019	12/07/2019	Nil	Nil

[View File](#)

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
IEEE Branch Counselors Congress (BCC 2019), Hotel Maurya, Rajadhani, Trivandrum	1	11/12/2019	11/12/2019	1
File attached	Nil	11/12/2019	11/12/2019	0
View File				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
14	14	Nil	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance, Provisional Fund, GPAI Scheme, State Life, Insurance, NPS (National Pension Scheme), FBS (Family benefit scheme)	Group Insurance, Provisional Fund, GPAI Scheme, State Life, Insurance, NBS (National Pension Scheme), FBS (Family benefit scheme)	SBI General Insurance, Merit cum Means Scholarship by College

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The institution undergoes three types of financial audits: 1. Internal audit by a Chartered Accountant firm. 2. External Audit by the Directorate of Technical Education, Government of Kerala, Thiruvananthapuram. 3. External Audit by the Office of the Accountant General, Government of India, Thiruvananthapuram. All the above three audits are done yearly by the concerned agency. No major irregularities have been raised by the authorities. In addition to this, the institution is having consultants to give an opinion on taxation and legal issues.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
TKM College trust, PTA, Alumni Contribution	35018494	For purchasing lab equipment, library books, guest lecture remmuneration etc.
View File		

6.4.3 – Total corpus fund generated

35018494

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	APJ Abdul Kalam Technological University	Yes	IQAC
Administrative	Yes	Directorate of Technical Education (DTE) and Accountant General (AG)	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Activities and Support from PTA: 1. Support for publication grant/international travel to students Financial support was given to eighth semester student of the department of Electronics and Communication Engineering to participate in the international conference held in the Harvard University, USA. Grant was provided to the student of the Department of Electrical and Electronics Engineering to participate in IEEE International conference held at Indonesia in November 2019. 2. Financial Assistance to other student activities are: Treatment grant was provided to a student who met with an accident. The PTA of the college sponsored to purchase Zebra office files for the use of students to make their portfolios. Financial support was provided to 25 students to participate in the second edition of professional students summit organized by the Additional Skill Acquisition Programme (ASAP), Govt of Kerala. Grant was provided to the students of team empower to participate in the Electric solar vehicle championship. The college Union was given loan to meet the expenses of conducting Film Festival 2019. The Magazine Editor of the college was given support to participate in the Mathrubhumi fest. In association with the TKMCE Alumni Association, students were also supported by awarding book scholarship. 3. Support to faculty: A travel grant was provided to the faculty to visit three Malaysian Universities for discussions regarding International Collaborative Research Agreements. Two faculty members of the Department of Mechanical Engineering were given travel grant to meet expenses of visit to NIT Thiruchirappally for signing MOU for skill development and training. Traveling and accommodation charges were reimbursed to two faculty members to accompany students to e-yantra workshop held at IIT Mumbai. Faculty and staff who accompanied the students in their study tours were given support by the PTA. The Chair person of the Professional Communication was given support to arrange sessions on professional communication to the faculty. 4. Financial Assistance to Departments: The department of Physical Education was given financial assistance to purchase yoga mats for the use of students. The departments of Civil Engineering and Electrical and Electronics Engineering were given loans to conduct international conferences and the Department of Electrical and Electronics Engineering was given loan to conduct Faculty Development Programme. Grant was provided to the maintenance of MCA Library. Grants were also provided to all the heads of departments for meeting the day to day expenses of the departments. 5. For Repair and maintenance works Support was provided to the College bus committee to for the maintenance of college bus and purchase of GPS. Financial support was also provided by the PTA for the maintenance of the Generator of the college. Please visit the link for details: <http://tkmce.ac.in/wp-content/uploads/2020/11/Activities-Report-2019-20-pta.pdf>

6.5.3 – Development programmes for support staff (at least three)

- Regularly conducts training programs for staff to operate and maintains the lab facilities, in order to expose them to all the equipment in their corresponding domain.
- Training is regularly given in the respective labs for newly joined technical staff
- Training is given in state of the art equipment and software to all instructors
- Technical staff is financially supported to undergo training on their specialization in Professional Training Institutes and companies.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

- Activities to enhance research collaboration with national and international organizations and institutions are initiated.
- Encourages all Departments to enhance professional body activities to reach the technical expertise to the society
- Academic management system based on outcome based education implemented.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	NAAC-AQAR submitted	06/12/2019	06/12/2019	06/12/2019	4000
2019	Conducted Students Induction Program	22/07/2019	22/07/2019	06/08/2019	850
2019	Internal Academic Audit	14/10/2019	14/10/2019	15/10/2019	4000
2019	External Academic Audit	06/11/2019	06/11/2019	07/11/2019	4000
2020	Coordinated NBA Accreditation visit	29/01/2020	29/01/2020	29/01/2020	600
2020	Conducted Students Satisfaction Survey	04/07/2020	04/07/2020	17/07/2020	4000
2019	Data submitted for NIRF	27/11/2019	27/11/2019	27/11/2019	8000
2020	Survey on Online Learning Facility	29/05/2020	29/05/2020	31/05/2020	4000

[View File](#)

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Technosthree	28/10/2019	28/10/2019	90	5
Whole programs in the College ensure gender equity	01/06/2019	31/05/2020	1500	1500

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Solar panels are placed on the campus for lighting street lamps at night. 100kW solar power plant proposal is given for installation and it is approved .it's implimentation is under Processing.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	14
Provision for lift	Yes	14
Ramp/Rails	Yes	14
Braille Software/facilities	No	Nil
Rest Rooms	Yes	14
Scribes for examination	No	Nil
Special skill development for differently abled students	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	12/08/2019	1	Flood Relief And Material Collection Drive	Provide dresses to camps where flood relief activities are going on	20

2019	1	1	26/09/2019	1	Global Climate Strike	Awareness sessions on climate changes and issues.	50
2019	1	1	01/11/2019	1	Suchitwa Sandehsa Rally	Rally promoting Environmental cleanliness	90
2019	1	1	28/05/2019	2	Harijan School Wall Painting	Painting the walls of Harijan school and doing maintenance	30
2019	1	1	04/06/2019	1	Sapling Planting	Maintaining greenery in campus	30
2019	1	1	30/07/2019	1	Library Set Up At Harijan School	Developing a library facility for Harijan school students	20
2019	1	1	04/08/2019	1	Mini Punarjani	Maintenance of machines/equipment at health centre	100
View File							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
College Handbook	02/07/2019	Released in 2016 and updated each year. Information brochure is uploaded in the college website (http://tkmce.ac.in/?newsfirst-year-b-tech-b-arch-classes-commence-on-30-11-2020)

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Library Set Up At Harijan School	30/07/2019	30/07/2019	30
Suchitwa Sandehsa Rally	01/11/2019	01/11/2019	90
Flood Relief And Material Collection Drive	12/08/2019	12/08/2019	20
View File			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

There are devoted staff to maintain the campus, gardens and buildings. Apart from this, students also organise many activities to impart the sense of cleanliness and eco friendliness to every student of the campus. Few activities done by students in the campus during the year 2019-20 are: 1) Paper Segregation by NSS - Paper carry bag making and distribution at college and to nearby shops. 2) Seed Pen Distribution - Program to promote eco friendly pen instead of ball point pens. 3) April Cool - Plantation drive at College and College Hostel premises 4) Swachhta Pakwara Campus Cleaning - Campus cleaning drive 5) Sapling Plantation in the college Campus on Environmental Day 6) Oru Tharu: Lakshmi Taru plant sapling distribution to faculty, staff and students of college.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. A robust mentoring system with one faculty advisor for a group of 30 students is one of the key features of this institute. The teacher-student relationship is excellent in the campus. Students very much interact with faculty and faculty support their students even in their personal needs and affairs. The faculty members are very much aware of even the family details of students. 2. The financial support given to students of the college is another different aspect of this college. There is Merit-cum-means scholarship given for deserving students of the campus. The fund for the Merit-cum-means scholarship is developed from exclusive contribution from the monthly salary of every staff of the college. There is Endowments/Scholarships also instituted by retired faculty and alumni of this college. Students are encouraged and are financially supported for undertaking Internships and participating/presenting papers at Internationally acclaimed Universities/Conferences too. 3. The responsibility and commitment demonstrated to the society is another highlight of this institute. Humanitarian activities are undertaken by the students and faculty of various Departments in collaboration with TKM Management and various professional organizations. The real value of institutional extension activities was tested during the times of the great floods in the state and during the Covid-19 pandemic. 'Back-to Home' Project and 'Back-to-School' projects are examples of such initiatives during the difficult time of flood in 2018 and 2019. As a part of the "Back to Home Project", the management, faculty, students and Alumni joined hands to construct 16 houses amounting to an expenditure of Rs.1.12 crores for the most needy who had lost their dwellings in the massive floods of 2018 and 2019. The 'Back to School Project' was another notable extension activity after the flood. The 'Back to School Project' initiated by the college was meant to ensure that no child drops out of school due to loss of books and stationery during the floods. Thousands of school kits were distributed to needy school students in the areas worst affected by the floods. This was in addition to the other monetary and technical help rendered by the TKMCE community.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://tkmce.ac.in/institutional-best-practices.html>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The institute aims for Research collaboration with foreign and Indian universities and to establish research centers to promote research. Steps are taken to organise technical conferences and faculty / staff development programmes. MoU's are signed to promote the same. The institute focuses on the activities of Professional bodies as platforms for utilizing the technical knowledge for the betterment of the society. The students are also encouraged to participate in national level competitions to improve skill and enable self learning of new technologies, nurture creativity and improve interpersonal skills. To name a few, Efficycle, SAE Baja, Hackathons etc. Sustainable homes were constructed as a part of Back To Home project in flood affected areas for the rehabilitation of the underprivileged, incorporating cost effective and modern technical design aspects. The knowledge acquired in the classes were implemented by the students after doing research with socioeconomic and environmental perspective. Induction Programme in line with the guidelines of AICTE are arranged for faculty and students to improve the teaching learning process. Professional body activities, is one of the key areas that helps to attain our vision of excellence in education and research. The link is attached below: <http://tkmce.ac.in/students-organisations.html> (This link will be directed to students organization activities in the institution)

Provide the weblink of the institution

<http://tkmce.ac.in/students-organisations.html/>

8.Future Plans of Actions for Next Academic Year

1. Start new PG Programmes in Artificial intelligence and Transportation Engineering in the next academic year. The documentation and office processing are in progress.
2. Establish a Centre for Robotics and Artificial Intelligence
3. Establish research lab in data analytics with the support of alumni
4. Establish a Content Development Centre to provide distant education for the needy learners. In connection with this, training of faculty and staff is to be conducted to expose them to various digital platforms and for its effective utilization.
5. Establish a nodal center of virtual lab in association with MHRD Virtual Labs and other nodal centers