



YEARLY STATUS REPORT - 2022-2023

Part A

Data of the Institution

1.Name of the Institution

KMEA Engineering College

- Name of the Head of the institution

Dr. Amar Nishad T M

- Designation

Principal

- Does the institution function from its own campus?

Yes

- Phone no./Alternate phone no.

04842411003

- Mobile no

9447332529

- Registered e-mail

naac@kmeacollege.ac.in

- Alternate e-mail

principal@kmeacollege.ac.in

- Address

Kuzhivelipady, Edathala North
(P.O), Aluva

- City/Town

Aluva

- State/UT

Kerala

- Pin Code

683561

2.Institutional status

- Affiliated /Constituent

Affiliated

- Type of Institution

Co-education

- Location

Rural

- Financial Status **Self-financing**
- Name of the Affiliating University **Kerala Technological University**
- Name of the IQAC Coordinator **Dr. Bijesh Paul**
- Phone No. **04842411003**
- Alternate phone No. **9349973413**
- Mobile **7025194089**
- IQAC e-mail address **iqac@kmeacollege.ac.in**
- Alternate Email address **naac@kmeacollege.ac.in**

3. Website address (Web link of the AQAR (Previous Academic Year))

<https://www.kmeacollege.ac.in/naac/>

4. Whether Academic Calendar prepared during the year?

Yes

- if yes, whether it is uploaded in the Institutional website Web link:

<https://www.kmeacollege.ac.in/kmea/Academic%20Calender/Academic%20Calendar%20-%2022-23%20Odd%20Sem.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B+	2.58	2021	16/03/2021	15/03/2026

6. Date of Establishment of IQAC

12/03/2014

7. Provide the list of funds by Central / State Government

UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
KMEA Engineering College	CSR	Ocean Network Express (India) Pvt. Ltd.	2023	247450
KMEA Engineering College/ Mechanical Engineering Department	FDP	Kerala Technological University	2023	150000
KMEA Engineering College/ Civil Engineering Department	FDP	Kerala Technological University	2023	150000
KMEA Engineering College	Conduction of IIC South Zone Regional Meet	AICTE and MHRD	2022	280000

8. Whether composition of IQAC as per latest NAAC guidelines **Yes**

- Upload latest notification of formation of IQAC [View File](#)

9. No. of IQAC meetings held during the year **4**

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? **Yes**

- If No, please upload the minutes of the meeting(s) and Action Taken Report **No File Uploaded**

10. Whether IQAC received funding from any of the 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)

Submission of SAR for four branches namely CE, ME, EE, EC

Preparation for NBA Visits including mock visits

Conduction of Kerala Technological University funded Faculty Development Programs

Faculty Development Program in Machine Learning

Conduction of IIC - Regional Meet (South Zone)

12. Plan of action chalked out by the IQAC in 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
Uploading of SAR for NBA Accreditation	Conducted Successfully
Conduction of mock visits for NBA	Conducted Successfully
Preparation of data for NIRF Ranking	Participated in NIRF ranking
Planning and preparation of activities of KMEA Innovation Council	Got excellent rating
Conduction of KTU funded FDPs by CE and ME departments	Conducted Successfully
Action plan for increasing research activities through KRCC	Increased number of publications and PhD holders
To enhance the number of MOUs for industrial interaction	Increased number of MOUs
To develop a plan for improving the Admission	Implemented successfully
Action plan for increasing Social Outreach through KSEC (NSS, Pain and Palliative Care Unit and Women's Forum)	Implemented successfully

13. Whether the AQAR was placed before statutory body? **No**

- Name of the statutory body

Name	Date of meeting(s)
Nil	Nil

14. Whether institutional data submitted to AISHE

Part A

Data of the Institution

1.Name of the Institution	KMEA Engineering College
• Name of the Head of the institution	Dr. Amar Nishad T M
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	04842411003
• Mobile no	9447332529
• Registered e-mail	naac@kmeacollege.ac.in
• Alternate e-mail	principal@kmeacollege.ac.in
• Address	Kuzhivelipady, Edathala North (P.O), Aluva
• City/Town	Aluva
• State/UT	Kerala
• Pin Code	683561
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• Type of Institution	Co-education
• Location	Rural
• Financial Status	Self-financing
• Name of the Affiliating University	Kerala Technological University
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• IQAC e-mail address	iqac@kmeacollege.ac.in				
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3.Website address (Web link of the AQAR (Previous Academic Year))	https://www.kmeacollege.ac.in/naac/				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.kmeacollege.ac.in/kmea/Academic%20Calender/Academic%20Calendar%20-%2022-23%20Odd%20Sem.pdf				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B+	2.58	2021	16/03/2021	15/03/2026
6.Date of Establishment of IQAC			12/03/2014		
7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,					

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13. Whether the AQAR was placed before statutory body?	No
<ul style="list-style-type: none"> Name of the statutory body 	
Name	Date of meeting(s)
Nil	Nil
14. Whether institutional data submitted to AISHE	
Year	Date of Submission
2022-2023	20/03/2024

15.Multidisciplinary / interdisciplinary
Institute promotes Multidisciplinary and Interdisciplinary Research aswell as Industry supported Workshop. Kmea Gaurage is a typical example for such initiative relevant to Mechanical and Elecrical Branches.
16.Academic bank of credits (ABC):
Since Kmea Engineering College is an affliated college we are offering all Accademic Bank of Credits priscribed by Affiliating University, KeralaTechnological University (KTU)
17.Skill development:
All branches have their own mechanism for enhansing Skill development in their domain.
18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)
Students are encouraged to participate online courses offered in Indian Languages and faculties are encouraged to contribute to such endeavours.
19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):
Institute functions on a seven point agenda namely , 1) Curriculam Enrichment 2) Teaching- Learning Enhancement 3) Research Upgradation 4) Infra structure Upgradation 5) Student Progression through Placement, Higher Learning and Start ups. 6) Overall Quality enhancement by Accreditation 7) Admission upgradation Programmes All this activities are Outcome oriented with pre set targets. Different activities are carried out to attain the Preset targets or Outcomes.Finally the review procees is carried out at the end of the tenure work.to identify any shortcomings in attainment and to rectify the same.
20.Distance education/online education:
Students and Faculties are encouraged to undertake online NPTEL and other MOOC Courses.

Extended Profile

1.Programme

1.1

339

Number of courses offered by the institution across all programs

during the year

File Description	Documents
Data Template	View File

2.Student

2.1 1093

Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2 149

Number of seats earmarked for reserved category as per GOI/
State Govt. rule during the year

File Description	Documents
Data Template	View File

2.3 234

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1 86

Number of full time teachers during the year

File Description	Documents
Data Template	View File

3.2 86

Number of sanctioned posts during the year

Extended Profile	
1.Programme	
1.1 Number of courses offered by the institution across all programs during the year	339
File Description	Documents
Data Template	View File
2.Student	
2.1 Number of students during the year	1093
File Description	Documents
Institutional Data in Prescribed Format	View File
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	149
File Description	Documents
Data Template	View File
2.3 Number of outgoing/ final year students during the year	234
File Description	Documents
Data Template	View File
3.Academic	
3.1 Number of full time teachers during the year	86
File Description	Documents
Data Template	View File

3.2	86
Number of sanctioned posts during the year	
File Description	Documents
Data Template	View File
4.Institution	
4.1	224
Total number of Classrooms and Seminar halls	
4.2	187.74
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	460
Total number of computers on campus for academic purposes	

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

The institution ensures effective curriculum delivery through a well planned and documented process

Response:Kerala Technological University has framed its syllabus for different B.Tech programs through expert committee comprising of eminent faculty members from different institutions. The syllabus has been set according to the needs of industry. KTU follows semester system. Marks are awarded to students based on the continuous internal assesment and end semester exam. In higher semesters, University offers choice based credit system as well as design project and final year project.

- College Academic Calendar is prepared by incorporating college specific activities in the University Academic Calendar and is circulated to all students and faculties before the commencement of semester.

- Work load for a department is calculated by the HoD and the course allotment to faculties is conducted based on their specialisation, experience, expertise and willingness.
- Course plan is prepared for each course before the beginning of a semester by the concerned faculty within the ambit of academic schedule.
- Faculty members maintain a course file for all courses including laboratory courses which contains:

-Course Diary, Mapping of Course Outcomes (COs) with Programme Outcomes (POs), Assignment questions and schemes, Question papers & scheme, Answer sheets of internal exams, Previous year question papers

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

College Academic Calendar is prepared by incorporating college specific activities in the University Academic Calendar and is circulated to all students and faculties before the commencement of semester. Work load for a department is calculated by the HoD and the course allotment to faculties is conducted based on their specialisation, experience and willingness. Course plan is prepared for each course before the beginning of a semester by the concerned faculty within the ambit of academic schedule. Faculty members maintain a course file for all courses including laboratory courses which contains: -Course Diary containing course plan, subject coverage, academic calendar -Mapping of Course Outcomes (COs) with Programme Outcomes (POs) -Assignment questions and schemes -Internal Question papers & scheme -Previous year question papers Course plans and course files are maintained for each lab. Further their copies are kept in a course file which is subjected to internal and external academic audits. The progress of syllabus coverage is monitored by Academic Monitoring Committee, HoDs and Principal. Class and

Course Committee meetings are conducted regularly by the committee chairman to review the teaching learning process, to gauge the academic progress, to know about student grievances and to arrive at remedial measures through appropriate discussions.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

B. Any 3 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

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

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

32

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Gender KMEA Engineering College since its inception has been promoting gender equality. More than 80% of the faculties are females and majority of them are from the minority community. Thus KMEA fraternity not only preach gender equality but also practice the same. To promote gender equality and to address the grievances of female students & faculties, a Women's Forum has

been operating in KMEA campus.

Environment & Sustainability In order to understand the importance of environmental factors in engineering, the students of the Mechanical Engineering department had opted for Environmental Engineering as their elective and Civil Engineering department had opted for Environmental Engineering and Municipal Solid Waste Management. Most of the departments have opted their non departmental elective as Disaster Management. The entire KMEA students learn the course Sustainable Engineering during their first year as per KTU syllabus from 2015 onwards. Students of the NSS unit of the college are always undertaking cleaning of nearby canals, ponds, planting trees.

Human Values & Professional Ethics Human Values & Professional Ethics have been incorporated into our curriculum through the course Life Skills (HS210) and Business Economics (HS200) during the second year, common to all branches and has been introduced since 2015.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

0

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	No File Uploaded
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	No File Uploaded

1.3.3 - Number of students undertaking project work/field work/ internships

713

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders
Students Teachers Employers Alumni **B. Any 3 of the above**

File Description	Documents
URL for stakeholder feedback report	Nil
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows

C. Feedback collected and analyzed

File Description	Documents
Upload any additional information	View File
URL for feedback report	Nil

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

244

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

198

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

KMEA have a blend of slow and advanced learners. The Institution always give special care for improving the performance of slow learners. The induction and orientation programs organized by the Institution help the students and parents to familiarize

with rules, regulations, activity points, internal and external assessment system, co curricular activities, extra-curricular activities, techno cultural activities, facilities such as the library, laboratories, central computing facility, physical education facilities, hostels, recreation facility, gymnasium and various other facilities. Faculty Advisors identify the slow learners, medium learners and advanced learners in every batch by considering the performance in Module Tests, Internal Exams, University Examination and Assignments. Course faculty set bench mark and students falling below this level are considered as slow learners. For enhancing the performance of slow learners, Remedial Session and Group Study Sessions are conducted both in college and in hostel . In these sessions slow learners are supported for solving previous year question papers and are encouraged to do more tutorial problems. To improve the technical skill of the students various workshops, internship programs, separate classes for GATE and invited talks are carried out in all departments. Value added courses are provided to advanced learners for improving their skill for job acquisition.

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

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
1131	86

File Description	Documents
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

Experiential learning:

Invited talks are conducted regularly in the college by the external experts. They share their experience with the students

that prepares them for real job scenario. Students regularly organizes and takes part in tech fests, conferences, inter college events, project competitions and idea fests. College has signed MOUs with industries to promote internships and training .

Participative learning:

Students are divided into various groups and asked to read various articles or write ups on certain selected topics. They get an opportunity to conceptualize the theoretical aspects and helps them in reflective thinking, problem solving and to logically question what was taught. Students undertake group activities like project, assignments, case-study analysis and are also provided the opportunity to undertake value added courses in the college.. They are also taken to field/ industry visits, study tours in India and are also encouraged to undertake innovative projects .

Teaching learning methods adopted by the faculty include lecture modes, interactive modes, project based learning, computer assisted learning, experiential learning, tutorials and more. For effective teaching learning process along with intensive ICT tools, Group Discussions, Debates and Brainstorming sessions are conducted. The pedagogical methods like Peer-to-Peer learning, model makings, scale ups, critical pedagogy and role plays are also conducted.

File Description	Documents
Upload any additional information	View File
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

KMEA practice blended learning which focuses on giving personalized experiences to the learners exposing them to web sources, e-learning, online platforms, games and ICT models. This encourages the students to retain their interest and inculcate self learning procedures. This is practiced by using moodle platform which enables both the educator and learner to interact in face to face online mode. For this purpose college

has provided necessary infrastructure and all learners and faculties possess their own moodle login id .

IMPLEMENTATION OF ONLINE PEDAGOGICAL METHODS IN KMEA

Teachers use online whiteboards for best practices in teaching online. In virtual classroom setup, an online whiteboard helps them to convey information and make a better connection . Online whiteboard is a canvas on which teachers can make diagrams, share pre-made templates and charts, make sketches, write etc.

Faculties in KMEA deliver lectures in real time through live online classes. That allow teachers and students to interact face-to-face and give the classroom-like environment for learning.

Teachers use various tools like Google meet, WebEx, Zoom etc which are available online and create a connection with students for running regular classes. Teachers are also using other effective ICT enabled techniques like Pre-Recorded Video Lectures, online quizzes.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

48

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

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

86

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

17

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

892

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The institution is affiliated to Kerala Technological University and adhered to its norms and guidelines. The evaluation scheme is communicated to the first year students and their parents on the invocation day .The daily attendance status of a student is informed to his parent through SMS. The attendance of all students is displayed at the end of each month and at the end of semester . The question paper for internal tests and assignments are set as per revised Blooms Taxonomy. The question paper of each subject is evaluated by the department scrutiny committee . The series tests and assignments are conducted as per academic calendar. CCTV cameras are deployed in all class rooms and exam cells .

The answer sheets are returned to students for scrutiny as per the academic calendar and marks are entered in the portal after addressing the grievances of the students, if any. The internal test marks are also displayed to the students . Open house is conducted to communicate the performance of students .Continuous evaluation process such as viva for each experiment is followed in laboratories. After each exam the Academic Monitoring Committee (AMC) evaluates the students' performance .

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time-bound and efficient

The internal examination dates are decided in academic council

meeting in line with University academic calendar . The academic calendar is displayed to students at the beginning of the semester. Two sets of Question papers are sent by question paper setter to Head of Department, who chooses a question paper to avoid probable leakage of questions. Department question paper scrutiny committee is constituted with HoD and senior faculty as members , to ensure the quality of the question paper .The weightage and division of marks are made transparent .The scheme and key of question paper is also prepared and is communicated to students after internal exam. The evaluation of answer sheets are done by faculty handling the subjects .The students can approach the concerned course faculty for clarification, if any. He can also approach HOD and Principal with his answer sheet, if his grievances regarding the evaluation of answer sheet is not satisfied . There is a grievance redressal mechanism for students to redress all grievances with regard to the evaluation process related to the internal examinations. Class/course committee meetings are conducted .

The college strictly follows the academic calendar published by A P J ABDUL KALAM KERALA TECHNOLOGICAL UNIVERSITY .It consists of the schedule for commencement of class & registration, course committee/ class committee, date of registration of university exam, date of tests to be conducted, date to publish attendance, end semester exam dates etc. In tune with University academic calendar college prepares the academic calendar .

File Description	Documents
Any additional information	View File
Link for additional information	https://www.kmeacollege.ac.in/academic-calender/

2.6 - Student Performance and Learning Outcomes

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

The Institute has well defined learning outcomes. The vision and mission of the institution emphasizes on promoting value education through motivated trained faculty to prepare the students to accept the challenges of globalization. The vision and mission statements are displayed at various key positions in

the college building. Programme Educational Objectives (PEO), Programme Outcomes (PO), Programme Specific Outcomes (PSO) and Course outcomes (CO) have been defined by every department. These are also available in course files along with the mapping of the same with programme outcomes and course outcomes. These are also made available as a printout along with many other details such as course plan, question bank, assignment questions, evaluation scheme in the department. Programme Educational Objectives (PEO), Programme Specific Outcomes(PSO) and Programme outcomes (PO) are discussed during department meetings comprising of Head of Departments and faculties and course outcomes (CO) are discussed by faculty members in the classrooms. Programme Educational Objectives (PEO), Programme Specific Outcomes(PSO) and Programme Outcomes (PO) are published in the website of college. At the end of every semester, all the departments evaluate POs and COs by using tools like tutorial and mid-term results, exam results, course end survey and yearly alumni feedback etc.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

The institution use course outcome as an indicator for evaluating student performance and achievement of learning objectives. The process of attainment of COs, POs and PSOs starts from writing appropriate COs .The course outcomes are written by the respective faculty using Bloom's Taxonomy.A correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course . The course outcomes written and their mapping with POs are reviewed frequently by a committee of senior faculty members and HoD . Internal assessment contributes 20% and university assessment contributes 80% to the total attainment of CO. PO/PSO assessment is done by giving 80% weightage to direct assessment and 20% to indirect assessment.

Direct assessment is based on CO attainment where 80% weightage is given to attainment through university exams and 20% weightage is given to attainment through internal assessments. Indirect assessment is done through programme exit survey, alumni survey and employer survey where programme exit survey and employer survey are given a weightage of 25% each and alumni exit survey is given a weightage of 50%.

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

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

169

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://www.kmeacollege.ac.in/naac/

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.kmeacollege.ac.in/naac/>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

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

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

3831787

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

4

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

6

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

The KMEA Innovation Council at KMEA Engineering College is focused on building a full ecosystem to encourage an innovation culture across the KMEA, from idea creation to pre-incubation, incubation, and graduation from the incubator as successful start-ups. KIC will also focus on evaluation methods to identify and nurture students who will transition from dependent to startup status. It was established to inspire our students' creativity to work on new ideas and innovation and to promote them in the creation of start-ups and entrepreneurial enterprises. KIC has taken steps to inculcate the incubation and start-up mantra among students and faculties by aligning with various state and central government programs over the years.

Objectives of KIC

- To streamline the activities under the KIC for value addition towards IIC and ARIIARanking
- To understand, evaluate and disseminate objectives framed under each KIC entity so that the objectives may be equally shared and supplemented, while not contradicting each other.
- To work in alignment with National objectives under the NISP program, while excel in contribution towards IIC and ARIIA each academic year.
- To disseminate information at each level in the college, working towards common goal, while passing information to students and faculty so that innovation and start-up culture may be inculcated through concentrated efforts.

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

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

61

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

3

File Description	Documents
URL to the research page on HEI website	https://www.kmeacollege.ac.in/krcc/
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

21

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

5

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Institute involves the faculty and students in community work. This helps the students to learn ethical values and understand their responsibilities, and develop as good citizens. College has an active National Service Scheme cell and Pain and palliative care unit through which different social activities are planned for each year.

- Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is the flagship scheme of the Ministry of Skill Development & Entrepreneurship (MSDE), Govt. of India. The objective of this Skill Certification Scheme is to enable a large number of Indian youth to take up industry-relevant skill training that will help them in securing a better livelihood. Individuals with prior learning experience or skills will also be assessed and certified under Recognition of Prior Learning (RPL)
- The various programmes by NSS has conveyed the social relevance of the various programmes such as to the neighborhood community.
- The various programmes by the Women's Forum was conducted for the betterment of the society.
- The pain and palliative care unit of the college has lended a helping hand to the neighborhood community during its period of hardships through its programmes and activities.

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

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

8

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

70

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

8654

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

36

File Description	Documents
e-copies of related Document	No File Uploaded
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

77

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The institution has a sprawling campus with modern buildings, technology-enabled classrooms, internet with Wi-Fi, library with reading room, digital library, well equipped laboratories, central computing facility, spacious hostels for students, seminar halls and auditorium. Adequate facilities for teaching and learning are available throughout the campus in the three academic blocks.

Campus Infrastructure

- We have 35 spacious classrooms with proper ventilation, lighting and appropriate furniture and all class rooms are equipped with ICT facilities.
- The College has 4 ICT enabled seminar halls with well-equipped infrastructure for organizing special lecturers and meetings.
- All the laboratories are designed with safety features imbibed in the infrastructure and create an excellent ambience and atmosphere for work.
- An incubation center with all the necessary equipment, to help the entrepreneurs realize their ideas.

Computer Facilities

- The institution maintains a total of 450 computers, with 331 computers solely for the students academic and browsing facilities.
- The students can access the internet in the Central Computing Facility as well as the Digital Library.
- Internet facility is available in the classrooms, faculty rooms with LAN connections, in addition to the Wi-Fi enabled for the whole campus

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.kmeacollege.ac.in/kmea/NAAC/NAAC/Criteria%204/4.1.1.pdf

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

SPORTS

Sports facilities for students such as basketball court, football and cricket ground, volleyball court, indoor badminton court etc. are provided. All the sports activities are coordinated by the Department of Physical Education. A sports tournament 'PACE' covering many sport events is held every academic year. An inter college football, volleyball, badminton and cricket tournaments named as 'AHAS' is also conducted every year. Annual sports meet is conducted as per the KTU schedule. The winners of this meet participate in all Kerala sports meet conducted by KTU.

CULTURAL ACTIVITIES

There are sufficient numbers of conference halls and an auditorium for organizing cultural and literary events. A fully equipped auditorium with a seating capacity of 1000 is available for organizing intercollege as well as intra college cultural events every year. The college conducts biannual tech fest called as 'KAPRICIOUS' in which students from different engineering colleges take part and exhibit their talents. We

also conduct cultural programmes and technical fests exclusively for our students to boost their talents.

GYMNASIUM

Our college boasts an excellent gymnasium with most modern equipment to which is utilized by students to keep themselves fit.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.kmeacollege.ac.in/kmea/NAAC/NAAC/Criteria%204/4.1.2.pdf

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

37

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.kmeacollege.ac.in/agar-20-21-criteria-4-4-1-3/
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

62.76

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	No File Uploaded
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

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

The Central Library of KMEA Engineering College is fully automated. Library functions with Open Source Software - KOHA (Koha version - 22.05.06.000) since 2015 with complete information of book details. The holdings of the library can be searched through OPAC (opac.kmeacollege.ac.in). All the books have been classified with Dewey Decimal Classification. The Library has a collection of 28884 Volumes and 7418 Titles.

A Digital Library with 20 computer systems is also provided to the users in order to access the e-resources such as e-journals, e-books, e-ShodhSindhu, DELNET, NPTEL lectures etc. The Library is also a registered member of NDLI which has collection of more than 6 lakh e-books. The institution has subscribed Elsevier Science Direct (Engineering + Computer Science) and EBSCO IEEE ASPP Online e-journal annual subscription. Online resources are available from library portal. Library have purchased Knimbus digital library platform provided by APJAKTU.

The library offers various services to its users like automated circulation system, online public access catalogue, reprography, internet browsing, library orientations, etc.

Name of the ILMS Software : KOHA

Nature of Automation (Fully or Partially) : Fully

Version : 22.05.06.000

Year of Automation : 2015

(Updated with the latest KOHA version on 2022)

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

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources **A. Any 4 or more of the above**

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

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

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

9.95

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	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 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

84

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

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

KMEA Engineering College maintains a total of 450 computers, with 412 computers solely for the students' academic and browsing facilities. College has Linux lab, Programming lab, Project lab, Research lab and Central Computing Facility under Department of Computer Science and Engineering, CAD labs under the Department of Civil Engineering and Mechanical Engineering, Systems lab and Microprocessor lab under Department of Electronics and Communication Engineering, and Systems lab under Department of Electronics and Instrumentation. Each lab has sufficient network switches and uninterrupted internet connectivity. The whole college campus including classrooms is under CCTV Surveillance. Printers and scanners are installed in office, library, staffrooms etc. Xerox machines are also available in college. College has Sophos XGS-2100 Squid Proxy Hardware Firewall architecture and Kaspersky Antivirus to protect network from latest threats. The teaching and learning process is enhanced through incorporating ICT tools and e-resources. College has a total campus automation system which provides all the information of students to teachers, parents and management. Parents can easily monitor their wards attendance and academic progress. Student feedback about college facilities and faculties are recorded using online feedback system. Most of the systems in college is running on open source software. College also have software packages of IBM Rational Rose, Oral Language software, Solid Works, AutoCAD, Ansys, STADD and MATLAB.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

450

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution A. ? 50MBPS

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

4.4 - Maintenance of Campus Infrastructure

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

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

197.81

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	No File Uploaded
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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

LABORATORY

The equipment and machinery in the laboratory/workshop are maintained by the lab in-charge(s)/workshop In- Charge(s). Periodic reporting on requirements of repairs and maintenance are submitted by the lab in-charge to the administrative office. If the problem is minor, the technical support staff of the lab

will rectify it. For major failures, support from vendors is taken.

SPORTS

The Department of Physical Education is responsible for the maintenance of sports equipments, facilities and regular sports activities.

LIBRARY

The institution ensures effective utilization and maintenance of the library through Library Council which consists of Principal, main librarian and department librarians from all the seven departments. Books are issued on presentation of the student identity card. Students are instructed to check the books while borrowing and they will be responsible for any type of damage noticed at the time of return.

BUILDING MAINTENANCE

The infrastructure facilities, services and equipment are maintained by the Infrastructure committee of the campus. Their maintenance staff is available to take care of the entire maintenance of land, buildings, water supply, stores, electrical and mechanical equipments etc. The main objective of the infrastructure committee is to oversee the Institute's physical assets: its land, buildings, and equipments.

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

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

0

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	No File Uploaded
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	No File Uploaded

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

188

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	Nil
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

93

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

93

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

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

A. All of the above

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

93

File Description	Documents
Self-attested list of students placed	No File Uploaded
Upload any additional information	No File Uploaded
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

11

File Description	Documents
Upload supporting data for student/alumni	No File Uploaded
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State

government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

0

File Description	Documents
Upload supporting data for the same	No File Uploaded
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	No File Uploaded

5.3 - Student Participation and Activities

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

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

3

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Student council committee rules and regulations

The functions and activities of a student council should support the aims and objectives of the council and development of the college and the welfare of its students. In planning and undertaking activities during the academic year, the council should work closely with college management, teachers and parents, consult regularly

the college and involve as many students as possible in the activities of the council.

Responsibilities

Representing the views of the student body to the college management.

Promoting good communication within the college.

Supporting the educational development and progress of students.

Assisting with induction or mentoring for new first year students.

Contributing to the development of college policy.

Assisting in college sports and cultural activities.

Assisting with fund raising event for charity.

Organising events and activities that engage students, staff, parents and the community.

Students council should take part in promoting college beautification and spreading environmental a

Student council should come together to help to raise awareness in the college and their community categories-

Drug, alcohol, safety and health.

Members should research and provide information to staff and students about the negative and positive above mentioned categories.

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

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

4

File Description	Documents
Report of the event	No File Uploaded
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

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

KMEA Engineering College, Edathala, Aluva, was established in 2002. The first batch passed out in 2006. An informal Alumni Association of KMEA Engineering College -KMEA ENGINEERING COLLEGE ALUMNI ASSOCIATION (KECIAN), was formed in 2010. The students formed the association with a view to maintain their warm bond with their alma mater.

In 2018, the college decided to initiate the formal registration process of Alumni Association.

The objectives of the association

1.To maintain the contacts of the alumni of the KMEA Engineering college (herein after referred to as the College) with alma

mater.

2.To provide a forum for bringing together the old students of the college, so that they can contribute effectively to the cause of engineering education and research in the country.

3.To promote cultural and social contacts among the old students, present students and staff of the College so as to develop a sense of tradition and heritage in this great family, which in turn will lead to the further growth and prosperity of this great institution and her progeny.

4.To institute prizes, scholarships, book banks, research grants etc for the students of the College.

5.To provide opportunities for developing entrepreneurship and practical know-how among the graduating students and also to impart vocational and career guidance to them.

6.To help the student graduating from the college in consistent with their qualification.

7.To function as a purely non-profit organization in the pursuit of such other projects solely connected with educational and cultural objectives mentioned above, as the General Body may

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

5.4.2 - Alumni contribution during the year A. ? 5Lakhs (INR in 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 and in tune with the vision and mission of the institution

Vision

To be a centre of excellence in academics and research for moulding students to become competent engineering professionals with innovative ideas and dedicated to the upliftment of the deprived socio-economic sections of the society through effective teaching learning process.

Mission

M1-To transform budding engineers into employable quality professionals.

M2- To inculcate the need of pursuing higher education among the graduate students so as to create a society of highly educated professionals.

M3- To impart ethical values and social consciousness among the students so as to create responsible and socially committed engineers.

M4- To create an excellent academic ambiance which encourages creative thinking, innovations and research.

KEC is committed to provide high-quality education for all students. It's an Engineering College which offers an environment conducive to the best learning situations - individualized academic support, dedicated teaching faculty, personal educational and financial counselling. All the processes and procedures are so designed that quality is inherent throughout..We got three star IIC ranking from MHRD.Our college hosted the southern regional meet of IIC jointly organized by the Ministry of Education Innovation Cell and AICTE..Five B.Tech programs in our prestigious institution are being accredited by the National Board of Accreditation in October 2023.

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

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

KEC has a mechanism for delegating authority and providing operational autonomy to various functionaries to work towards a decentralized governance system.

- Faculty members are given representation in various committees/ cells and allowed to conduct various programmes to showcase their abilities.
- Our institute promotes a culture of participative management by involving staff and students in various activities.
- The Principal, Vice principal and staff members are involved in defining the policies/procedures, framing guidelines and rules/regulations pertaining to admission, placement, discipline, grievance, counselling, training & development, library services etc. and are effectively implementing the same to ensure smooth and systematic functioning of the institute.
- For the various programmes to be conducted by the institute, staff members meet, discuss, share their opinion, plan for the event and form various committees involving students. Staff members are also involved in deciding academic activities and examinations to be conducted in the institute.
- At a functional level the faculty members participate in sharing the knowledge by discussing the latest trends/ technology during faculty meetings.
- Suggestions are invited from the stakeholders before the policy formulations.

Case Study: Establishment of KMEA Innovation Cell(KIC):

KMEA Innovation Council (KIC) - KMEA Engineering College
(kmeacollege.ac.in)

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

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Strategic plans were made based on the vision and the mission and by seeing the need of the institution. Guidelines with specific plans for implementation by aligning the academic and non-academic aspects improves the overall quality of academics and administration. The college has the following perspective plans:

- Developing a system for industry interaction through MOUs, internships, trainings and programmes
- Enhancing the continuing education cell to cater the needs of neighbouring community
- Faculty and Student empowerment programmes -(proof FDPs conducted,
- Encourage activity based learning to develop disciplinary minds, creative minds and innovative minds
- Development of start-ups and promotion of entrepreneurship
- Membership of Professional bodies
- Streamlining of Career Guidance and Placement Unit
- Development of Research Cell
- Preparation of institute development plan for academic enhancement
- Activation of IQAC for acquiring NAAC and NBA accreditation
- Enhancement of Alumni Association Activities

- **Physical Education Facilities**

IEDC of KMEA engineering college , organized a 2 day offline workshop on 'Slate & Pencil' .The resource person for the workshop were Mr. Arun JS, Nodal officer, Catalyst, MBCET and Mr Sarju S, Nodal officer, SJCET startup bootcamp.

Link:<https://in.linkedin.com/company/slatenpencil>

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

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

KEC has a clearly defined organisation structure including governing council and administrative setup to ensure effective and efficient governance and management. Three councils have been constituted in the apex level for the proper and smooth functioning.

Governing Council (GC): The members of the governing council of the trust to which, by rule and bye-laws of the trust, the management of its affairs are entrusted. The governing council is formed with members from the KMEA Trust and is made responsible to monitor the overall performance of the institution.

Academic Council: The academic council plans and monitors all the academic activities at institutional level. It reviews the quality of course delivery process and attainment of outcomes.

College Council: The Director/Principal heads the administrative setup and is the key decision maker with regard to academic and administrative matters.

Administrative Setup: The Principal heads the administrative setup and is the key decision maker with regard to academic and administrative matters.

Service Rules: Service rules, leave rules, policies and procedures for the institution are defined. These rules are circulated to ensure that the staff members are aware of the rules. They are made known to all newly recruited staff members through an induction program.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://www.kmeacollege.ac.in/kmea/Organisation%20Chart.pdf
Upload any additional information	View File

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user interfaces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff

Institute is always striving to motivate and empower the faculty to create a sense of direction and positive awareness to all the departments in the teaching learning processes.

Teaching and Non-Teaching

- Casual, Maternity and Sick Leave as per policy
- Earned leave which can be availed during the time of

vacation period in the academic calendar of the University

- Special leave for exigencies which may arise Health

non-teaching staff.

- Provident Fund and Other Benefits:.. The employee and the employer contribute to the EPF scheme on a monthly basis.
- Provident Fund: An employee becomes eligible for enrolment into the provident fund after the completion of the probation period as per the Provident Fund Act.
- Other Benefits Employees' State Insurance (ESI)

Staff Recreation Activities through staff welfare committee and it is intended for the welfare and development of whole staff and to provide a platform for us to interact with each other.

Ensure a favourable working environment

Arrange extra-curricular activities

conduct meeting for honouring the staff for their achievements

Coordinate benevolent funds for the members of staff.

Arrange Annual events such as employee outings, Family Day & sports activities and competitions.

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

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

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

24

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

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

20

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

85

File Description	Documents
IQAC report summary	No File Uploaded
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

An effective performance management system plays an important role in managing the institution in an efficient manner. A good performance management system works towards the improvement of the overall institutional performance of teaching and non-teaching staff for ensuring the achievements of the overall institutional mission and vision. The Institution follows all the basic recruitment and promotional policies as per AICTE. All teaching and non-teaching staff should complete the self-appraisal every year.

Appraisal is purely based on the following criteria,

- Teaching and learning effectiveness during the academic year
- Regularity and punctuality
- Active participation in duties assigned by HoD
- Contribution towards extracurricular and co-curricular activities
- Details of innovations/ contributions to teaching during the year
- Major contribution for the benefit of students, staff, institute and society.
- Improvement of professional competence.

- General details such as achievements and difficulties faced.

The management reviews the performance appraisal and analyses each staff. Based on the collective reports, remedial actions will be taken if needed, and also decides the regular increments and promotions. Some of the faculty members have been promoted as per the outcome of the performance reviewer committee.

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Yes, The Institution regularly conducts internal and external financial audits with well-structured processes.

Financial audit is intended to provide a 'reasonable' assurance over the accuracy of financial statements. So our institution appointed an external agency to conduct the financial audit to verify and certify the entire recurring and non-recurring and the capital expenditure of the institute each year. Qualified staff members from our finance department will do a thorough check on each payment and vouchers on a half yearly basis. Likewise external auditors do a thorough check on payment and vouchers on a yearly basis. So far there have been no major objections from any member of the audit team. Minor error pointed out by the audit team was corrected immediately. Precautionary steps are taken to avoid such mistakes in future. The institute regularly follows an external financial audit system. Each financial year of the institute is audited by a Chartered Accountant. The audit queries like, Is there any advance given for purchase, how to meet the revenue for the institution, nature of staff welfare expenses, and all the queries are well answered by the auditee up to the level.

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

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

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

11.6

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	View File
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Yes

Budget Preparation and Fund Allocation

The Institute has a well-defined procedure to monitor effective and efficient utilization of available resources for infrastructure, development and teaching learning process. All the major financial transactions are monitored by the office. The account of each financial year of the institute is audited by a Chartered Accountant. Thus the utilization of financial resources is monitored at several levels.

Earned Income:The main source of the earned income of the institution is the fees collected. The hostel fee also becomes a major part of the funds earned.

Funds Raised: Funds are also mobilized by the institution for various activities such as funds received as sponsorship for various student activities, consultancy services, faculty

development programmes, workshops and seminars , Alumni contribution, computer lab is rented out to government and public sector agencies for the conduct of examinations.

Grants Received from Government and Non-Government Agencies :The faculty members and different cells of the institution receive grants for research and innovation from agencies like ATAL, AICTE, Start-Up Mission, ASAP, etc.

Utilization - All the funds received are routed through the accounts of the institution so that the funds mobilised are employed for the purpose for which it was mobilized.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

The IQAC was established during 2014 and acts as a nodal agency of the institution for coordinating quality-related activities . For this purpose different entities have been formed under this cell and each entity or component works for improving and upgrading the quality of overall functioning

Objectives The prime task of the IQAC is,

To develop a system for conscious, consistent and catalytic improvement in the performance of the institution.

To promote the measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

To promote the college into a centre of excellence in academics and research.

The two institutionalized remarkable practices 1.KMEA innovation council(KIC) KMEA engineering college through (KIC) has taken steps to inculcate the incubation and start-up mantra among students and faculties by aligning with various state and

central government programs over the years. KIC has recently frames the KIC policy. 2. KMEA "Place of Research": KMEA engineering college was recognized as "Place of Research" on 4th August 2023 by APJ Abdul Kalam University. The college being recognized as a "Place of Research" typically signifies that the institution is acknowledged for its significant contributions to research activities within the field of engineering.

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

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

1. Allotment of the subjects to the faculty by HoDs as per their specialization.

2. Preparation of teaching plan and course plan along with correlation to the Course Outcomes (COs), Program Outcome (POs) and Program Specific Outcome (PSOs).

3. Preparation of Course file which contains university syllabus, previous year question papers, series test question papers, assignment questions, their answer key and slow learner activity schedule.

4. Conduction of series test, assignments, seminars as a part of the internal assessment of students

5. Conduction of result analysis of series tests.

6. Identification of slow learners and medium learners from result analysis and conduction of remedial classes.

7. Conduction of advanced courses like NPTEL and GATE coaching for higher learners

8. Conduction of parent teacher meeting and open house after each series test to inform parents about academic progress and behavioural pattern of students.

9. Advisory Committee, Class Committee and Course Committee meeting to review the teaching learning process.

10. Analyse the feedback from students to assess the teaching and to implement any corrective measures.

11. Semester wise result analysis of University exams.

12. Conduction of invited talks by faculties of eminent institutes for students and faculties to enhance their knowledge in specific domains.

13. The seminars and workshops conducted for the faculty and students.

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

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://www.kmeacollege.ac.in/naac/
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Institution has provided CCTV cameras in its three academic blocks at class rooms and at key locations to ensure the safety, security and discipline of the students. Further CCTV cameras have been installed at gate and at barriers along the road. The institute has tie up with Samaritan Hospital, Pazhanganad for any medical emergency and has an ambulance maintained by our Pain and Palliative care unit. At women's hostel, timings are maintained for the entry and exit of students by the warden. Further round the clock security is also provided at hostels. COUNSELLING The college has a counsellor, Adv. P.A.Majeed Parakkadan, our management committee member who is always available to counsel and guide our students. In addition, we have a counsellor Dr. Shereena for the needs of students. There is a Student Grievance Cell to review the existing practices and other rules affecting students and recommend amendments for students. COMMON ROOM Common rooms are provided for both boys and girls in the premises. Separate prayer hall is provided for both girls and boys. Discipline committee members are deputed at different destinations for the safety of lady staff and students. A stationery store & cafeteria are functioning inside the campus.

File Description	Documents
Annual gender sensitization action plan	https://www.kmeacollege.ac.in/naac/
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://www.kmeacollege.ac.in/kmea/NAAC/AQAR%202021%20-%202022/Criteria%207/Cr%207.1.1.b.pdf

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

C. Any 2 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

KMEA Engineering College is committed to "zero waste " concept by reducing the environmental impact of its activities through its philosophy of "reduce-reuse-recycle- 3R". Staff and students of the college are given awareness about energy consumptions. It is made sure that the electronic devices like computers, fans, lights & air conditioners are turned off before leaving the rooms.

SOLID WASTE: The daily waste is collected by housekeeping staff of each block and is moved to waste treatment plant of the village. The solid waste management system involves the burning of waste in a specially provided space. Waste like plastic, papers etc. are collected and sold out to scrap vendor at regular intervals. An incinerator is installed for burning non hazardous waste.

LIQUID WASTE: We adhere to a strict protocol of liquid waste disposal in our laboratories. Any glassware used in the laboratory is rinsed with minimum water. All waste water lines from toilets, bathrooms etc. are connected to the septic tank.

E-WASTE: The E-wastes are collected and are disposed to the scrap dealer based on the highest bidding. Our college has introduced a waste collection campaign to make a zero waste campus in association with Clean Kerala Company Limited.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities

B. Any 3 of the above

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

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

7.1.5 - Green campus initiatives include

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

A. Any 4 or All of the above

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

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

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

7.1.6.1 - The institutional environment and energy initiatives 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

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment

5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

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

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

The institution organises various programmes to improve ,tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities'The various programmes by NSS has conveyed its social relevance to the

neighbourhood community. In addition, we conduct several programmes for the service of society, environment such as flood related activities, medically assisted activities like High School cleaning, blood donation camp etc. The Pain and Palliative care unit of the college has lended a helping hand to the neighbourhood community during its period of hardships through its programmes and activities. The Womens forum has been in the forefront for promoting gender equality and women safety.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

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

The various programmes by NSS has conveyed its social relevance to the neighbourhood community. NSS unit celebrates all days of national importance Republic Day, Independence Day, Gandhi Jayanti, Teachers Day, Children's day, Engineer's day, NSS day etc. In addition, we conduct several programmes for the service of society, environment such as flood related activities, medically assisted activities like School cleaning, blood donation camp, etc.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://www.kmeacollege.ac.in/naac/
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic 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

B. Any 3 of the above

for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

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

College organizes national festivals and birth/deathanniversaries of great Indian personalities. 1. Republic Day:- Republic Day is celebrated on January 26 to commemorate the adoption of constitution. Our NSS unit conducts republic day activities on every 26th January. 2. Independence Day: Our students celebrate Independence day onevery August 15th by hoisting flags and distributing sweets. 3. Gandhi Jayanti :-Birth Anniversary of Mahatma Gandhi iscelebrated on 2nd October. Gandhi Jayanthi is celebrated by our students by observing sevanavaram and indulging in social works. 4. Teachers Day: Our students organize teacher's day celebration on5th September. 5..Engineer's day: Celebrated on 15th September, the birth anniversary of greatest Indian Engineer Bharat RatnaMokshagundam Visvesvaraya, by Students and faculties by taking apledge to uphold the ethics & values throughout their career. 6.. NSS day was celebrated by our NSS unit on 24th September.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

1. Kmea Innovation Council(KIC) KIC was formed to plan, coordinate and control all the activities leading to creation of startups. It is a mother council which controls the different entities. 1) IIC-established as per guidelines of MIC- GOVT 2) ARIIA established as per guidelines of MIC- GOVT of India for ranking educational institutions based on innovative and startup activities. 3) IEDC-established to promote startups and innovation ecosystem in the campus. 4) Electronic Incubation centre established by DIC to perform student's ideation and prototype development. 5) SDPK-established as per the norms of Govt. of Kerala . 6) KDISK- To coordinate and implement real time project in association with Govt. of Kerala. 7) E-Yantra Lab - In association with IIT Mumbai to focus on Robotics and 3D printing. KIC was instrumental in achieving 64th position in ARIIA ranking and also 5 star ranking in IIC rating.

2. KMEA Institutional Scholarship A novel practice which involves, contribution of a part of the monthly salary of the staff of the college voluntarily to meet the fees of needy students. The scholarship is managed by committee consisting of faculty members from each department. A substantial amount has been distributed to the students.

File Description	Documents
Best practices in the Institutional website	https://www.kmeacollege.ac.in/naac/
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Institutional Distinctiveness

1.ACADEMIC AND RESEARCH COLLABORATION

Academic and research collaboration between KMEA Engineering college and other universities plays a vital role in fostering innovation, knowledge exchange, and addressing real-world challenges. Such collaborations enable us to leverage each other's expertise, resources, and facilities, leading to impactful research outcomes and enhanced educational experiences.

Further KEC has signed MoU with reputed international universities like Universiti Teknologi MARA, Malaysia and Durban University Of Technology, South Africa.

These collaborations often take various forms, including joint academic programs and research projects, exchange programs for students and faculty, shared laboratory facilities, joint conferences and collaborative funding initiatives. This will help to tackle complex engineering problems, explore emerging technologies, and develop innovative solutions that have practical applications.

2..KMEA SOCIAL EMPOWERMENT CELL KEC conducts its activities aimed at empowering society through its social empowerment cell. Institute involves the faculty and students in community work. This helps the students to learn ethical values and understand their responsibilities, and develop as good citizens. College has an active National Service Scheme cell, Pain and Palliative care unit and Women's Forum through which different social activities are planned.

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

The institution ensures effective curriculum delivery through a well planned and documented process

Response: Kerala Technological University has framed its syllabus for different B.Tech programs through expert committee comprising of eminent faculty members from different institutions. The syllabus has been set according to the needs of industry. KTU follows semester system. Marks are awarded to students based on the continuous internal assesment and end semester exam. In higher semesters, University offers choice based credit system as well as design project and final year project.

- College Academic Calendar is prepared by incorporating college specific activities in the University Academic Calendar and is circulated to all students and faculties before the commencement of semester.
- Work load for a department is calculated by the HoD and the course allotment to faculties is conducted based on their specialisation, experience, expertise and willingness.
- Course plan is prepared for each course before the beginning of a semester by the concerned faculty within the ambit of academic schedule.
- Faculty members maintain a course file for all courses including laboratory courses which contains:

-Course Diary, Mapping of Course Outcomes (COs) with Programme Outcomes (POs), Assignment questions and schemes, Question papers & scheme, Answer sheets of internal exams, Previous year question papers

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

College Academic Calendar is prepared by incorporating college specific activities in the University Academic Calendar and is circulated to all students and faculties before the commencement of semester. Work load for a department is calculated by the HoD and the course allotment to faculties is conducted based on their specialisation, experience and willingness. Course plan is prepared for each course before the beginning of a semester by the concerned faculty within the ambit of academic schedule. Faculty members maintain a course file for all courses including laboratory courses which contains: -Course Diary containing course plan, subject coverage, academic calendar -Mapping of Course Outcomes (COs) with Programme Outcomes (POs) -Assignment questions and schemes -Internal Question papers & scheme -Previous year question papers Course plans and course files are maintained for each lab. Further their copies are kept in a course file which is subjected to internal and external academic audits. The progress of syllabus coverage is monitored by Academic Monitoring Committee, HoDs and Principal. Class and Course Committee meetings are conducted regularly by the committee chairman to review the teaching learning process, to gauge the academic progress, to know about student grievances and to arrive at remedial measures through appropriate discussions.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University

B. Any 3 of the above

and/are represented on the following academic bodies during the year.
Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

5

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

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

32

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Gender KMEA Engineering College since its inception has been promoting gender equality. More than 80% of the faculties are females and majority of them are from the minority community. Thus KMEA fraternity not only preach gender equality but also practice the same. To promote gender equality and to address the grievances of female students & faculties, a Women's Forum has been operating in KMEA campus.

Environment & Sustainability In order to understand the importance of environmental factors in engineering, the students of the Mechanical Engineering department had opted for Environmental Engineering as their elective and Civil Engineering department had opted for Environmental Engineering and Municipal Solid Waste Management. Most of the departments have opted their non departmental elective as Disaster Management. The entire KMEA students learns the course Sustainable Engineering during their first year as per KTU syllabus from 2015 onwards. Students of the NSS unit of the college are always undertaking cleaning of nearby canals, ponds, planting trees.

Human Values & Professional Ethics Human Values & Professional Ethics have been incorporated into our curriculum through the course Life Skills (HS210) and Business Economics (HS200) during the second year, common to all branches and has been introduced since 2015.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

0

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	No File Uploaded
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	No File Uploaded

1.3.3 - Number of students undertaking project work/field work/ internships

713

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

B. Any 3 of the above

File Description	Documents
URL for stakeholder feedback report	Nil
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows

C. Feedback collected and analyzed

File Description	Documents
Upload any additional information	View File
URL for feedback report	Nil

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

244

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

198

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

KMEA have a blend of slow and advanced learners. The Institution always give special care for improving the performance of slow learners. The induction and orientation programs organized by the Institution help the students and parents to familiarize with rules, regulations, activity points, internal and external assessment system, co curricular activities, extra-curricular activities, techno cultural activities, facilities such as the library, laboratories, central computing facility, physical education facilities, hostels, recreation facility, gymnasium and various other facilities. Faculty Advisors identify the slow learners, medium learners and advanced learners in every batch by considering the performance in Module Tests, Internal Exams, University Examination and Assignments. Course faculty set bench mark and students falling below this level are considered as slow learners. For enhancing the performance of slow learners, Remedial Session and Group Study Sessions are conducted both in college and in hostel . In these sessions slow learners are supported for solving previous year question papers and are encouraged to do more

tutorial problems. To improve the technical skill of the students various workshops, internship programs, separate classes for GATE and invited talks are carried out in all departments. Value added courses are provided to advanced learners for improving their skill for job acquisition.

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

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
1131	86

File Description	Documents
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

Experiential learning:

Invited talks are conducted regularly in the college by the external experts. They share their experience with the students that prepares them for real job scenario. Students regularly organizes and takes part in tech fests, conferences, inter college events, project competitions and idea fests. College has signed MOUs with industries to promote internships and training .

Participative learning:

Students are divided into various groups and asked to read various articles or write ups on certain selected topics. They get an opportunity to conceptualize the theoretical aspects and helps them in reflective thinking, problem solving and to logically question what was taught. Students undertake group activities like project, assignments, case-study analysis and are also provided the opportunity to

undertake value added courses in the college.. They are also taken to field/ industry visits, study tours in India and are also encouraged to undertake innovative projects .

Teaching learning methods adopted by the faculty include lecture modes, interactive modes, project based learning, computer assisted learning, experiential learning, tutorials and more. For effective teaching learning process along with intensive ICT tools, Group Discussions, Debates and Brainstorming sessions are conducted. The pedagogical methods like Peer-to-Peer learning, model makings, scale ups, critical pedagogy and role plays are also conducted.

File Description	Documents
Upload any additional information	View File
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

KMEA practice blended learning which focuses on giving personalized experiences to the learners exposing them to web sources, e-learning, online platforms, games and ICT models. This encourages the students to retain their interest and inculcate self learning procedures. This is practiced by using moodle platform which enables both the educator and learner to interact in face to face online mode. For this purpose college has provided necessary infrastructure and all learners and faculties posses their own moodle login id .

IMPLEMENTATION OF ONLINE PEDAGOGICAL METHODS IN KMEA

Teachers use online whiteboards for best practices in teaching online. In virtual classroom setup, an online whiteboard helps them to convey information and make a better connection . Online whiteboard is a canvas on which teachers can make diagrams, share pre-made templates and charts, make sketches, write etc.

Faculties in KMEA deliver lectures in real time through live online classes. That allow teachers and students to interact

face-to-face and give the classroom-like environment for learning.

Teachers uses various tools like Google meet, WebEx, Zoom etc which are available online and create a connection with students for running regular classes. Teachers are also using other effective ICT enabled techniques like Pre-Recorded Video Lectures,online quizzes.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

48

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

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

86

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

17

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

892

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The institution is affiliated to Kerala Technological University and adhered to its norms and guidelines. The evaluation scheme is communicated to the first year students and their parents on the invocation day .The daily attendance status of a student is informed to his parent through SMS. The attendance of all students is displayed at the end of each month and at the end of semester . The question paper for internal tests and assignments are set as per revised Blooms Taxonomy. The question paper of each subject is evaluated by the department scrutiny committee . The series tests and assignments are conducted as per academic calendar. CCTV cameras are deployed in all class rooms and exam cells .

The answer sheets are returned to students for scrutiny as per the academic calendar and marks are entered in the portal after addressing the grievances of the students, if any. The internal test marks are also displayed to the students . Open house is conducted to communicate the performance of students .Continuous evaluation process such as viva for each experiment is followed in laboratories. After each exam the Academic Monitoring Committee (AMC) evaluates the students' performance .

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time-bound and efficient

The internal examination dates are decided in academic council meeting in line with University academic calendar . The academic calendar is displayed to students at the beginning of the semester.Two sets of Question papers are sent by question paper setter to Head of Department, who chooses a question paper to avoid probable leakage of questions. Department question paper scrutiny committee is constituted with HoD and senior faculty as members , to ensure the quality of the question paper .The weightage and division of marks are made transparent .The scheme and key of question paper is also prepared and is communicated to students after internal exam.The evaluation of answer sheets are done by faculty handling the subjects .The students can approach the concerned course faculty for clarification, if

any.He can also approach HOD and Principal with his answer sheet, if his grievances regarding the evaluation of answer sheet is not satisfied . There is a grievance redressal mechanism for students to redress all grievances with regard to the evaluation process related to the internal examinations. Class/course committee meetings are conducted .

The college strictly follows the academic calendar published by A P J ABDUL KALAM KERALA TECHNOLOGICAL UNIVERSITY .It consists of the schedule for commencement of class & registration, course committee/ class committee,date of registration of university exam, date of tests to be conducted, date to publish attendance, end semester exam dates etc.In tune with University academic calendar college prepares the academic calendar .

File Description	Documents
Any additional information	View File
Link for additional information	https://www.kmeacollege.ac.in/academic-calender/

2.6 - Student Performance and Learning Outcomes

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

The Institute has well defined learning outcomes. The vision and mission of the institution emphasizes on promoting value education through motivated trained faculty to prepare the students to accept the challenges of globalization. The vision and mission statements are displayed at various key positions in the college building. Programme Educational Objectives (PEO), Programme Outcomes (PO), Programme Specific Outcomes (PSO) and Course outcomes (CO) have been defined by every department. These are also available in course files along with the mapping of the same with programme outcomes and course outcomes. These are also made available as a printout along with many other details such as course plan, question bank, assignment questions, evaluation scheme in the department. Programme Educational Objectives (PEO), Programme Specific Outcomes(PSO) and Programme outcomes (PO) are discussed during department meetings comprising of Head of

Departments and faculties and course outcomes (CO) are discussed by faculty members in the classrooms. Programme Educational Objectives (PEO), Programme Specific Outcomes(PSO) and Programme Outcomes (PO) are published in the website of college. At the end of every semester, all the departments evaluate POs and COs by using tools like tutorial and mid-term results, exam results, course end survey and yearly alumni feedback etc.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

The institution use course outcome as an indicator for evaluating student performance and achievement of learning objectives. The process of attainment of COs, POs and PSOs starts from writing appropriate COs .The course outcomes are written by the respective faculty using Bloom's Taxonomy.A correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course . The course outcomes written and their mapping with POs are reviewed frequently by a committee of senior faculty members and HoD . Internal assessment contributes 20% and university assessment contributes 80% to the total attainment of CO. PO/PSO assessment is done by giving 80% weightage to direct assessment and 20% to indirect assessment. Direct assessment is based on CO attainment where 80% weightage is given to attainment through university exams and 20% weightage is given to attainment through internal assessments. Indirect assessment is done through programme exit survey, alumni survey and employer survey where programme exit survey and employer survey are given a weightage of 25% each and alumni exit survey is given a weightage of 50%.

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

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

169

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://www.kmeacollege.ac.in/naac/

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.kmeacollege.ac.in/naac/>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

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

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

3831787

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

4

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

6

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

The KMEA Innovation Council at KMEA Engineering College is focused on building a full ecosystem to encourage an innovation culture across the KMEA, from idea creation to pre-incubation, incubation, and graduation from the incubator as successful start-ups. KIC will also focus on evaluation methods to identify and nurture students who will transition from dependent to startup status. It was established to inspire our students' creativity to work on new ideas and innovation and to promote them in the creation of start-ups and entrepreneurial enterprises. KIC has taken steps to inculcate the incubation and start-up mantra among students and faculties by aligning with various state and central government programs over the years.

Objectives of KIC

- To streamline the activities under the KIC for value addition towards IIC and ARIIARanking
- To understand, evaluate and disseminate objectives framed under each KIC entity so that the objectives may be equally shared and supplemented, while not contradicting each other.
- To work in alignment with National objectives under the NISP program, while excel in contribution towards IIC and ARIIA each academic year.
- To disseminate information at each level in the college, working towards common goal, while passing information to students and faculty so that innovation and start-up culture may be inculcated through concentrated efforts.

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

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

61

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

3

File Description	Documents
URL to the research page on HEI website	https://www.kmeacollege.ac.in/krcc/
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

21

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and

papers in national/ international conference proceedings year wise during year

5

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Institute involves the faculty and students in community work. This helps the students to learn ethical values and understand their responsibilities, and develop as good citizens. College has an active National Service Scheme cell and Pain and palliative care unit through which different social activities are planned for each year.

- Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is the flagship scheme of the Ministry of Skill Development & Entrepreneurship (MSDE), Govt. of India. The objective of this Skill Certification Scheme is to enable a large number of Indian youth to take up industry-relevant skill training that will help them in securing a better livelihood. Individuals with prior learning experience or skills will also be assessed and certified under Recognition of Prior Learning (RPL)
- The various programmes by NSS has conveyed the social relevance of the various programmes such as to the neighborhood community.
- The various programmes by the Women's Forum was conducted for the betterment of the society.
- The pain and palliative care unit of the college has lended a helping hand to the neighborhood community during its period of hardships through its programmes and activities.

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

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

8

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

70

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

8654

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

36

File Description	Documents
e-copies of related Document	No File Uploaded
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

77

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The institution has a sprawling campus with modern buildings, technology-enabled classrooms, internet with Wi-Fi, library with reading room, digital library, well equipped laboratories, central computing facility, spacious hostels for students, seminar halls and auditorium. Adequate facilities for teaching and learning are available throughout the campus in the three academic blocks.

Campus Infrastructure

- We have 35 spacious classrooms with proper ventilation, lighting and appropriate furniture and all class rooms are equipped with ICT facilities.
- The College has 4 ICT enabled seminar halls with well-equipped infrastructure for organizing special lecturers and meetings.
- All the laboratories are designed with safety features imbibed in the infrastructure and create an excellent ambience and atmosphere for work.
- An incubation center with all the necessary equipment, to help the entrepreneurs realize their ideas.

Computer Facilities

- The institution maintains a total of 450 computers, with 331 computers solely for the students academic and browsing facilities.
- The students can access the internet in the Central Computing Facility as well as the Digital Library.
- Internet facility is available in the classrooms, faculty rooms with LAN connections, in addition to the Wi-Fi enabled for the whole campus

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.kmeacollege.ac.in/kmea/NAAC/NAAC/Criteria%204/4.1.1.pdf

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

SPORTS

Sports facilities for students such as basketball court, football and cricket ground, volleyball court, indoor badminton court etc. are provided. All the sports activities are coordinated by the Department of Physical Education. A sports tournament 'PACE' covering many sport events is held every academic year. An inter college football, volleyball, badminton and cricket tournaments named as 'AHAS' is also conducted every year. Annual sports meet is conducted as per the KTU schedule. The winners of this meet participate in all Kerala sports meet conducted by KTU.

CULTURAL ACTIVITIES

There are sufficient numbers of conference halls and an auditorium for organizing cultural and literary events. A fully equipped auditorium with a seating capacity of 1000 is available for organizing intercollege as well as intra college cultural events every year. The college conducts biannual tech fest called as 'KAPRICIOUS' in which students from different engineering colleges take part and exhibit

their talents. We also conduct cultural programmes and technical fests exclusively for our students to boost their talents.

GYMNASIUM

Our college boasts an excellent gymnasium with most modern equipment to which is utilized by students to keep themselves fit.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.kmeacollege.ac.in/kmea/NAAC/NAAC/Criteria%204/4.1.2.pdf

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

37

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.kmeacollege.ac.in/aqar-20-21-criteria-4-4-1-3/
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

62.76

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	No File Uploaded
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

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

The Central Library of KMEA Engineering College is fully automated. Library functions with Open Source Software - KOHA (Koha version - 22.05.06.000) since 2015 with complete information of book details. The holdings of the library can be searched through OPAC (opac.kmeacollege.ac.in). All the books have been classified with Dewey Decimal Classification. The Library has a collection of 28884 Volumes and 7418 Titles.

A Digital Library with 20 computer systems is also provided to the users in order to access the e-resources such as e-journals, e-books, e-ShodhSindhu, DELNET, NPTEL lectures etc. The Library is also a registered member of NDLI which has collection of more than 6 lakh e-books. The institution has subscribed Elsevier Science Direct (Engineering + Computer Science) and EBSCO IEEE ASPP Online e-journal annual subscription. Online resources are available from library portal. Library have purchased Knimbus digital library platform provided by APJAKTU.

The library offers various services to its users like automated circulation system, online public access catalogue, reprography, internet browsing, library orientations, etc.

Name of the ILMS Software : KOHA

Nature of Automation (Fully or Partially) : Fully

Version : 22.05.06.000

Year of Automation : 2015

(Updated with the latest KOHA version on 2022)

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

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

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

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

9.95

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	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 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)**4.2.4.1 - Number of teachers and students using library per day over last one year**

84

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

4.3 - IT Infrastructure**4.3.1 - Institution frequently updates its IT facilities including Wi-Fi**

KMEA Engineering College maintains a total of 450 computers, with 412 computers solely for the students' academic and browsing facilities. College has Linux lab, Programming lab, Project lab, Research lab and Central Computing Facility under Department of Computer Science and Engineering, CAD labs under the Department of Civil Engineering and Mechanical Engineering, Systems lab and Microprocessor lab under Department of Electronics and Communication Engineering, and Systems lab under Department of Electronics and Instrumentation. Each lab has sufficient network switches and uninterrupted internet connectivity. The whole college campus including classrooms is under CCTV Surveillance. Printers and scanners are installed in office, library, staffrooms etc. Xerox machines are also available in college. College has Sophos XGS-2100 Squid Proxy Hardware Firewall architecture and Kaspersky Antivirus to protect network from latest threats. The teaching and learning process is enhanced through incorporating ICT tools and e-resources. College has a total campus automation system which provides all the information of students to teachers, parents and management. Parents can easily monitor their wards attendance and academic progress. Student feedback about college facilities and faculties are recorded using online feedback system. Most of the systems in college is running on open source software. College also have software packages of IBM Rational Rose, Oral Language software, Solid Works, AutoCAD, Ansys, STADD and MATLAB.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

450

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

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

4.4 - Maintenance of Campus Infrastructure**4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)****4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)**

197.81

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	No File Uploaded
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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

LABORATORY

The equipment and machinery in the laboratory/workshop are maintained by the lab in-charge(s)/workshop In- Charge(s). Periodic reporting on requirements of repairs and maintenance are submitted by the lab in-charge to the administrative office. If the problem is minor, the technical support staff of the lab will rectify it. For major failures, support from vendors is taken.

SPORTS

The Department of Physical Education is responsible for the maintenance of sports equipments, facilities and regular sports activities.

LIBRARY

The institution ensures effective utilization and maintenance of the library through Library Council which consists of Principal, main librarian and department librarians from all the seven departments. Books are issued on presentation of the student identity card. Students are instructed to check the books while borrowing and they will be responsible for any type of damage noticed at the time of return.

BUILDING MAINTENANCE

The infrastructure facilities, services and equipment are maintained by the Infrastructure committee of the campus.

Their maintenance staff is available to take care of the entire maintenance of land, buildings, water supply, stores, electrical and mechanical equipments etc. The main objective of the infrastructure committee is to oversee the Institute's physical assets: its land, buildings, and equipments.

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

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

0

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	No File Uploaded
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	No File Uploaded

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

188

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File
5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	A. All of the above
File Description	Documents
Link to Institutional website	Nil
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	View File
5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
93	
5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
93	
File Description	Documents
Any additional information	No File Uploaded
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File
5.1.5 - The Institution has a transparent mechanism for timely redressal of student	A. All of the above

grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

93

File Description	Documents
Self-attested list of students placed	No File Uploaded
Upload any additional information	No File Uploaded
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

11

File Description	Documents
Upload supporting data for student/alumni	No File Uploaded
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

0

File Description	Documents
Upload supporting data for the same	No File Uploaded
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	No File Uploaded

5.3 - Student Participation and Activities

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

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

3

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Student council committee rules and regulations

The functions and activities of a student council should support the aims and objectives of the council an development of the college and the welfare of its students. In planning and undertaking activities during the academic year, the council should work closely with college management, teachers and parents, consult regularly

the college and involve as many students as possible in the activities of the council.

Responsibilities

Representing the views of the student body to the college management.

Promoting good communication within the college.

Supporting the educational development and progress of students.

Assisting with induction or mentoring for new first year students.

Contributing to the development of college policy.

Assisting in college sports and cultural activities.

Assisting with fund raising event for charity.

Organising events and activities that engage students, staff, parents and the community.

Students council should take part in promoting college beautification and spreading environmental a

Student council should come together to help to raise awareness in the college and their community categories-

Drug, alcohol, safety and health.

Members should research and provide information to staff and students about the negative and positi above mentioned categories.

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

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

4

File Description	Documents
Report of the event	No File Uploaded
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	View File

5.4 - Alumni Engagement

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

KMEA Engineering College, Edathala, Aluva, was established in 2002. The first batch passed out in 2006. An informal Alumni Association of KMEA Engineering College -KMEA ENGINEERING COLLEGE ALUMNI ASSOCIATION (KECIAN), was formed in 2010. The students formed the association with a view to maintain their warm bond with their alma mater.

In 2018, the college decided to initiate the formal registration process of Alumni Association.

The objectives of the association

1.To maintain the contacts of the alumni of the KMEA Engineering college (herein after referred to as the College) with alma mater.

2.To provide a forum for bringing together the old students of the college, so that they can contribute effectively to the cause of engineering education and research in the country.

3.To promote cultural and social contacts among the old students, present students and staff of the College so as to develop a sense of tradition and heritage in this great family, which in turn will lead to the further growth and prosperity of this great institution and her progeny.

4.To institute prizes, scholarships, book banks, research grants etc for the students of the College.

5.To provide opportunities for developing entrepreneurship and practical know-how among the graduating students and also to impart vocational and career guidance to them.

6.To help the student graduating from the college in consistent with their qualification.

7.To function as a purely non-profit organization in the pursuit of such other projects solely connected with educational and cultural objectives mentioned above, as the General Body may

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

5.4.2 - Alumni contribution during the year (INR in Lakhs)

A. ? 5Lakhs

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 and in tune with the vision and mission of the institution

Vision

To be a centre of excellence in academics and research for moulding students to become competent engineering professionals with innovative ideas and dedicated to the upliftment of the deprived socio-economic sections of the society through effective teaching learning process.

Mission

M1-To transform budding engineers into employable quality professionals.

M2- To inculcate the need of pursuing higher education among the graduate students so as to create a society of highly educated professionals.

M3- To impart ethical values and social consciousness among the students so as to create responsible and socially committed engineers.

M4- To create an excellent academic ambiance which encourages creative thinking, innovations and research.

KEC is committed to provide high-quality education for all

students. It's an Engineering College which offers an environment conducive to the best learning situations - individualized academic support, dedicated teaching faculty, personal educational and financial counselling. All the processes and procedures are so designed that quality is inherent throughout..We got three star IIC ranking from MHRD.Our college hosted the southern regional meet of IIC jointly organized by the Ministry of Education Innovation Cell and AICTE..Five B.Tech programs in our prestigious institution are being accredited by the National Board of Accreditation in October 2023.

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

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

KEC has a mechanism for delegating authority and providing operational autonomy to various functionaries to work towards a decentralized governance system.

- Faculty members are given representation in various committees/ cells and allowed to conduct various programmes to showcase their abilities.
- Our institute promotes a culture of participative management by involving staff and students in various activities.
- The Principal, Vice principal and staff members are involved in defining the policies/procedures, framing guidelines and rules/regulations pertaining to admission, placement, discipline, grievance, counselling, training & development, library services etc. and are effectively implementing the same to ensure smooth and systematic functioning of the institute.
- For the various programmes to be conducted by the institute, staff members meet, discuss, share their opinion, plan for the event and form various committees

involving students. Staff members are also involved in deciding academic activities and examinations to be conducted in the institute.

- At a functional level the faculty members participate in sharing the knowledge by discussing the latest trends/ technology during faculty meetings.
- Suggestions are invited from the stakeholders before the policy formulations.

Case Study: Establishment of KMEA Innovation Cell(KIC):

KMEA Innovation Council (KIC) - KMEA Engineering College
(kmeacollege.ac.in)

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

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Strategic plans were made based on the vision and the mission and by seeing the need of the institution. Guidelines with specific plans for implementation by aligning the academic and non-academic aspects improves the overall quality of academics and administration. The college has the following perspective plans:

- Developing a system for industry interaction through MOUs, internships, trainings and programmes
- Enhancing the continuing education cell to cater the needs of neighbouring community
- Faculty and Student empowerment programmes -(proof FDPs conducted,
- Encourage activity based learning to develop disciplinary minds, creative minds and innovative minds

- Development of start-ups and promotion of entrepreneurship
- Membership of Professional bodies
- Streamlining of Career Guidance and Placement Unit
- Development of Research Cell
- Preparation of institute development plan for academic enhancement
- Activation of IQAC for acquiring NAAC and NBA accreditation
- Enhancement of Alumni Association Activities
- Physical Education Facilities

IEDC of KMEA engineering college , organized a 2 day offline workshop on 'Slate & Pencil' .The resource person for the workshop were Mr. Arun JS, Nodal officer, Catalyst, MBCET and Mr Sarju S, Nodal officer, SJ CET startup bootcamp.

Link:<https://in.linkedin.com/company/slatenpencil>

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

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

KEC has a clearly defined organisation structure including governing council and administrative setup to ensure effective and efficient governance and management. Three councils have been constituted in the apex level for the proper and smooth functioning.

Governing Council (GC): The members of the governing council

of the trust to which, by rule and bye-laws of the trust, the management of its affairs are entrusted. The governing council is formed with members from the KMEA Trust and is made responsible to monitor the overall performance of the institution.

Academic Council: The academic council plans and monitors all the academic activities at institutional level. It reviews the quality of course delivery process and attainment of outcomes.

College Council: The Director/Principal heads the administrative setup and is the key decision maker with regard to academic and administrative matters.

Administrative Setup: The Principal heads the administrative setup and is the key decision maker with regard to academic and administrative matters.

Service Rules: Service rules, leave rules, policies and procedures for the institution are defined. These rules are circulated to ensure that the staff members are aware of the rules. They are made known to all newly recruited staff members through an induction program.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://www.kmeacollege.ac.in/kmea/Organisation%20Chart.pdf
Upload any additional information	View File

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user interfaces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

Institute is always striving to motivate and empower the faculty to create a sense of direction and positive awareness to all the departments in the teaching learning processes.

Teaching and Non-Teaching

- Casual, Maternity and Sick Leave as per policy
- Earned leave which can be availed during the time of vacation period in the academic calendar of the University
- Special leave for exigencies which may arise Health

non-teaching staff.

- Provident Fund and Other Benefits:.. The employee and the employer contribute to the EPF scheme on a monthly basis.
- Provident Fund: An employee becomes eligible for enrolment into the provident fund after the completion of the probation period as per the Provident Fund Act.
- Other Benefits Employees' State Insurance (ESI)

Staff Recreation Activities through staff welfare committee and it is intended for the welfare and development of whole

staff and to provide a platform for us to interact with each other.

Ensure a favourable working environment

Arrange extra-curricular activities

conduct meeting for honouring the staff for their achievements

Coordinate benevolent funds for the members of staff.

Arrange Annual events such as employee outings, Family Day & sports activities and competitions.

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

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

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

24

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

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

20

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

85

File Description	Documents
IQAC report summary	No File Uploaded
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

An effective performance management system plays an important

role in managing the institution in an efficient manner. A good performance management system works towards the improvement of the overall institutional performance of teaching and non-teaching staff for ensuring the achievements of the overall institutional mission and vision. The Institution follows all the basic recruitment and promotional policies as per AICTE. All teaching and non-teaching staff should complete the self-appraisal every year.

Appraisal is purely based on the following criteria,

- Teaching and learning effectiveness during the academic year
- Regularity and punctuality
- Active participation in duties assigned by HoD
- Contribution towards extracurricular and co-curricular activities
- Details of innovations/ contributions to teaching during the year
- Major contribution for the benefit of students, staff, institute and society.
- Improvement of professional competence.
- General details such as achievements and difficulties faced.

The management reviews the performance appraisal and analyses each staff. Based on the collective reports, remedial actions will be taken if needed, and also decides the regular increments and promotions. Some of the faculty members have been promoted as per the outcome of the performance reviewer committee.

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Yes, The Institution regularly conducts internal and external financial audits with well-structured processes.

Financial audit is intended to provide a 'reasonable' assurance over the accuracy of financial statements. So our institution appointed an external agency to conduct the financial audit to verify and certify the entire recurring and non-recurring and the capital expenditure of the institute each year. Qualified staff members from our finance department will do a thorough check on each payment and vouchers on a half yearly basis. Likewise external auditors do a thorough check on payment and vouchers on a yearly basis. So far there have been no major objections from any member of the audit team. Minor error pointed out by the audit team was corrected immediately. Precautionary steps are taken to avoid such mistakes in future. The institute regularly follows an external financial audit system. Each financial year of the institute is audited by a Chartered Accountant. The audit queries like, Is there any advance given for purchase, how to meet the revenue for the institution, nature of staff welfare expenses, and all the queries are well answered by the auditee up to the level.

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

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

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

11.6

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	View File
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Yes

Budget Preparation and Fund Allocation

The Institute has a well-defined procedure to monitor effective and efficient utilization of available resources for infrastructure, development and teaching learning process. All the major financial transactions are monitored by the office. The account of each financial year of the institute is audited by a Chartered Accountant. Thus the utilization of financial resources is monitored at several levels.

Earned Income:The main source of the earned income of the institution is the fees collected. The hostel fee also becomes a major part of the funds earned.

Funds Raised: Funds are also mobilized by the institution for various activities such as funds received as sponsorship for various student activities, consultancy services, faculty development programmes, workshops and seminars , Alumni contribution, computer lab is rented out to government and public sector agencies for the conduct of examinations.

Grants Received from Government and Non-Government Agencies :The faculty members and different cells of the institution receive grants for research and innovation from agencies like ATAL, AICTE, Start-Up Mission, ASAP, etc.

Utilization - All the funds received are routed through the accounts of the institution so that the funds mobilised are

employed for the purpose for which it was mobilized.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

The IQAC was established during 2014 and acts as a nodal agency of the institution for coordinating quality-related activities . For this purpose different entities have been formed under this cell and each entity or component works for improving and upgrading the quality of overall functioning

Objectives The prime task of the IQAC is,

To develop a system for conscious, consistent and catalytic improvement in the performance of the institution.

To promote the measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

To promote the college into a centre of excellence in academics and research.

The two institutionalized remarkable practices 1.KMEA innovation council(KIC) KMEA engineering college through (KIC) has taken steps to inculcate the incubation and start-up mantra among students and faculties by aligning with various state and central government programs over the years.KIC has recently frames the KIC policy. 2. KMEA "Place of Research": KMEA engineering college was recognized as "Place of Research" on 4th August 2023 by APJ Abdul Kalam University. The college being recognized as a "Place of Research" typically signifies that the institution is acknowledged for its significant contributions to research activities within the field of engineering.

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

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

1.Allotment of the subjects to the faculty by HoDs as per their specialization.

2.Preparation of teaching plan and course plan along with correlation to the Course Outcomes (COs),Program Outcome (POs) and Program Specific Outcome (PSOs).

3.Preparation of Course file which contains university syllabus, previous year question papers, series test question papers, assignment questions, their answer key and slow learner

activity schedule.

4.Conduction of series test, assignments, seminars as a part of the internal assessment of students

5.Conduction of result analysis of series tests.

6.Identification of slow learners and medium learners from result analysis and conduction of remedial classes.

7.Conduction of advanced courses like NPTEL and GATE coaching for higher learners

8.Conduction of parent teacher meeting and open house after each series test to inform parents about academic progress and behavioural pattern of students.

9.Advisory Committee, Class Committee and Course Committee meeting to review the teaching learning process.

10.Analyse the feedback from students to assess the teaching and to implement any corrective measures.

11.Semester wise result analysis of University exams.

12.Conduction of invited talks by faculties of eminent institutes for students and faculties to enhance their knowledge in specific domains.

13.The seminars and workshops conducted for the faculty and students.

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

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://www.kmeacollege.ac.in/naac/
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Institution has provided CCTV cameras in its three academic blocks at class rooms and at key locations to ensure the safety, security and discipline of the students. Further CCTV cameras have been installed at gate and at barriers along the road. The institute has tie up with Samaritan Hospital, Pazhanganad for any medical emergency and has an ambulance maintained by our Pain and Palliative care unit. At women's hostel, timings are maintained for the entry and exit of students by the warden. Further round the clock security is also provided at hostels. COUNSELLING The college has a counsellor, Adv. P.A.Majeed Parakkadan, our management committee member who is always available to counsel and guide our students. In addition, we have a counsellor Dr. Shereena for the needs of students. There is a Student Grievance Cell to review the existing practices and other rules affecting students and recommend amendments for students. COMMON ROOM Common rooms are provided for both boys and girls in the premises. Separate prayer hall is provided for both girls and boys. Discipline committee members are deputed at different destinations for the safety of lady staff and students. A stationery store & cafeteria are functioning inside the campus.

File Description	Documents
Annual gender sensitization action plan	https://www.kmeacollege.ac.in/naac/
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://www.kmeacollege.ac.in/kmea/NAAC/AQAR%202021%20-%202022/Criteria%207/Cr%207.1.1.b.pdf

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

C. Any 2 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

KMEA Engineering College is committed to "zero waste " concept by reducing the environmental impact of its activities through its philosophy of "reduce-reuse-recycle-3R". Staff and students of the college are given awareness about energy consumptions. It is made sure that the electronic devices like computers, fans, lights & air conditioners are turned off before leaving the rooms.

SOLID WASTE: The daily waste is collected by housekeeping staff of each block and is moved to waste treatment plant of the village. The solid waste management system involves the burning of waste in a specially provided space. Waste like plastic, papers etc. are collected and sold out to scrap vendor at regular intervals. An incinerator is installed for burning non hazardous waste.

LIQUID WASTE: We adhere to a strict protocol of liquid waste disposal in our laboratories. Any glassware used in the laboratory is rinsed with minimum water. All waste water lines from toilets, bathrooms etc. are connected to the septic tank.

E-WASTE: The E-wastes are collected and are disposed to the scrap dealer based on the highest bidding. Our college has introduced a waste collection campaign to make a zero waste campus in association with Clean Kerala Company Limited.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	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
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded
7.1.5 - Green campus initiatives include	
7.1.5.1 - The institutional initiatives for greening the campus are as follows: <ol style="list-style-type: none"> 1.Restricted entry of automobiles 2.Use of bicycles/ Battery-powered vehicles 3.Pedestrian-friendly pathways 4.Ban on use of plastic 5.Landscaping 	A. Any 4 or All of the above
File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded
7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution	
7.1.6.1 - The institutional environment and energy initiatives 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	A. Any 4 or all of the above

activities	
File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded
7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading	A. Any 4 or all of the above
File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	No File Uploaded
7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).	

The institution organises various programmes to improve ,tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities'The various programmes by NSS has conveyed its social relevance to the neighbourhood community. In addition, we conduct severalprogrammes for the service of society, environment such as flood related activities, medically assisted activities like High Schoolcleaning, blood donation camp etc. The Pain and Palliative care unit of the college has lended ahelping hand to the neighbourhood community during its period of hardships through its programmes and activities. The Womens forumhas been in the forefront for promoting gender equality and women safety.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

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

The various programmes by NSS has conveyed its social relevance tothe neighbourhood community. NSS unit celebrates all days of national importanceRepublic Day, Independence Day, Gandhi Jayanti,Teachers Day,.Children's day, Engineer's day, NSS day etc. In addition, we conduct several programmes for the service ofsociety, environment such as flood related activities, medically assisted activities like School cleaning, blood donationcamp, etc.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://www.kmeacollege.ac.in/naac/
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers,

B. Any 3 of the above

administrators and other staff and conducts periodic 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
4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

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

College organizes national festivals and birth/death anniversaries of great Indian personalities. 1. Republic Day:- Republic Day is celebrated on January 26 to commemorate the adoption of constitution. Our NSS unit conducts republic day activities on every 26th January. 2. Independence Day: Our students celebrate Independence day on every August 15th by hoisting flags and distributing sweets. 3. Gandhi Jayanti :- Birth Anniversary of Mahatma Gandhi is celebrated on 2nd October. Gandhi Jayanti is celebrated by our students by observing sevavaram and indulging in social works. 4. Teachers Day: Our students organize teacher's day celebration on 5th September. 5. Engineer's day: Celebrated on 15th September, the birth anniversary of greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya, by Students and faculties by taking a pledge to uphold the ethics & values throughout their career. 6. NSS day was celebrated by our NSS unit on 24th September.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

1. Kmea Innovation Council(KIC) KIC was formed to plan, coordinate and control all the activities leading to creation of startups. It is a mother council which controls the different entities. 1) IIC-established as per guidelines of MIC- GOVT 2) ARIIA established as per guidelines of MIC- GOVT of India for ranking educational institutions based on innovative and startup activities. 3) IEDC-established to promote startups and innovation ecosystem in the campus. 4) Electronic Incubation centre established by DIC to perform student's ideation and prototype development. 5) SDPK-established as per the norms of Govt. of Kerala . 6) KDISK-Tocoordinate and implement real time project in association with Govt. of Kerala. 7) E-Yantra Lab - In association with IIT Mumbai to focus on Robotics and 3D printing. KIC was instrumental in achieving 64th position in ARIIA ranking and also 5 star ranking in IIC rating.

2. KMEA Institutional Scholarship A novel practice which involves, contribution of a part of the monthly salary of the staff of the college voluntarily to meet the fees of needy students. The scholarship is managed by committee consisting of faculty members from each department. A substantial amount has been distributed to the students.

File Description	Documents
Best practices in the Institutional website	https://www.kmeacollege.ac.in/naac/
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Institutional Distinctiveness

1.ACADEMIC AND RESEARCH COLLABORATION

Academic and research collaboration between KMEA Engineering college and other universities plays a vital role in fostering innovation, knowledge exchange, and addressing real-world challenges. Such collaborations enable us to leverage each other's expertise, resources, and facilities, leading to impactful research outcomes and enhanced educational experiences.

Further KEC has signed MoU with reputed international universities like Universiti Teknologi MARA, Malaysia and Durban University Of Technology, South Africa.

These collaborations often take various forms, including joint academic programs and research projects, exchange programs for students and faculty, shared laboratory facilities, joint conferences and collaborative funding initiatives. This will help to tackle complex engineering problems, explore emerging technologies, and develop innovative solutions that have practical applications.

2..KMEA SOCIAL EMPOWERMENT CELL KEC conducts its activities aimed at empowering society through its social empowerment cell. Institute involves the faculty and students in community work. This helps the students to learn ethical values and understand their responsibilities, and develop as good citizens. College has an active National Service Schemecell, Pain and Palliative care unit and Women's Forum through which different social activities are planned.

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

1. Conduction of peer team visit by NBA Accreditation team.
2. Planning and preparation of data for NIRF Ranking
3. Planning and preparation of data for KIRF Ranking
4. Conduction of International Conference
5. Conduction of Faculty Development Programs
6. Planning and preparing activities of KMEA Innovation Council and KMEA Social Empowerment Cell
7. Enhancing the research activities through KRCC
8. Conduction of placement drives for enhancing student progression