YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution

MAR BASELIOS CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY

- Name of the Head of the institution

  Dr. JAYARAJ KOCHUPILLAI

- Designation

  PRINCIPAL

- Does the institution function from its own campus?

  Yes

- Phone no./Alternate phone no.

  04869233571

- Mobile no

  9400288670

- Registered e-mail

  principal@mbcpeermade.com

- Alternate e-mail

  principal@mbcpeermade.com

- Address

  Peermade, Pallikunnu P.O

- City/Town

  IDUKKI

- State/UT

  KERALA

- Pin Code

  685531

2.Institutional status

- Affiliated /Constituent

  Affiliated

- Type of Institution

  Co-education

- Location

  Rural

- Financial Status **Self-financing**

- Name of the Affiliating University **A.P.J. Abdul Kalam Technological University**

- Name of the IQAC Coordinator **Dr. ANOOP K J**

- Phone No. **8870271177**

- Alternate phone No.

- Mobile **8870271177**

- IQAC e-mail address **iqac@mbcpeermade.com**

- Alternate Email address **dranoopkj@mbcpeermade.com**

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

4.Whether Academic Calendar prepared during the year?   **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: https://www.mbcpeermade.com/Add-on/Academic%20Canender/38/1

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B++**	**2.88**	**2021**	**02/02/2021**	**01/02/2026**

6.Date of Establishment of IQAC   **17/01/2017**

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
NIL	**Nil**	**Nil**	**Nil**	**0**

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

- Upload latest notification of formation of IQAC   No File Uploaded

9.No. of IQAC meetings held during the year   2

- 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)

Plans implemented to improve the academic result.

Started the process of obtaining NBA accreditation.

Given training of online teaching methodology to all faculty members by Google Classroom and Google Meet.

As per the suggestion of IQAC, the placement training department implemented training for students from the first year onwards.

Scholarships were given to meritorious as well as financially poor students.

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
Conducting Motivational Classes for Students	**Motivational Series (Get Inspired and Ignited) was conducted for the First year students by the external experts during 21st August to 25th September 2020.**
Proper Assessment of OBE Implementation	**Revised formats are implemented for Auditing Academic activities based on OBE.**
Purchasing Software for effective calculation of OBE attainment.	**Software purchased, Successfully implemented.**

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

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• Name of the Head of the institution	Dr. JAYARAJ KOCHUPILLAI
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• Phone no./Alternate phone no.	04869233571
• Mobile no	9400288670
• Registered e-mail	principal@mbcpeermade.com
• Alternate e-mail	principal@mbcpeermade.com
• Address	Peermade, Pallikunnu P.O
• City/Town	IDUKKI
• State/UT	KERALA
• Pin Code	685531
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• Location	Rural
• Financial Status	Self-financing
• Name of the Affiliating University	A.P.J. Abdul Kalam Technological University
• Name of the IQAC Coordinator	Dr. ANOOP K J

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• Alternate phone No.	
• Mobile	**8870271177**
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• Upload latest notification of formation of IQAC	No File Uploaded	

9.No. of IQAC meetings held during the year	**2**
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	**Yes**

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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

Year	Date of Submission
2018-2019	28/02/2019

15.Multidisciplinary / interdisciplinary

16.Academic bank of credits (ABC):

17.Skill development:

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

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

20.Distance education/online education:

Extended Profile

1.Programme

1.1   358

Number of courses offered by the institution across all programs
during the year

File Description	Documents
Data Template	[View File](#)

2.Student

2.1   **678**

Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2   **60**

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   **157**

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1   **58**

Number of full time teachers during the year

File Description	Documents
Data Template	No File Uploaded

3.2   **58**

Number of sanctioned posts during the year

Extended Profile

1.Programme

1.1	**358**
Number of courses offered by the institution across all programs during the year	

File Description	Documents
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2.Student

2.1	**678**
Number of students during the year	

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File Description	Documents
Data Template	View File

3.Academic

3.1	**58**
Number of full time teachers during the year	

File Description	Documents
Data Template	No File Uploaded

3.2 Number of sanctioned posts during the year	58

File Description	Documents
Data Template	<u>View File</u>

4.Institution	
4.1 Total number of Classrooms and Seminar halls	27
4.2 Total expenditure excluding salary during the year (INR in lakhs)	69.74
4.3 Total number of computers on campus for academic purposes	360

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

APJAKTU publish academic calendar before the commencement of regular academics. A detailed academic calendar of the institution which includes all important dates of curricular, co-curricular and extra-curricular activities is prepared and gets approved by the academic council. In line with above, all programme offering departments prepare their academic calendar showing various department-level activities.

The institution has a standard Course Diary which comprises of Time Table, Syllabus & Course mapping, Course plan, Assignments & Tutorial details, Subject coverage, Attendance, Continuous Internal Evaluation details and Attainment. The POs and PSOs are derived from the Graduate Attributes and each faculty prepares COs of the respective subject and explain the same to the students in the first class itself. Before the commencement of the regular classes, all subject faculty members prepare Course Plan for their courses and submit for the approval of HoD. The

faculty members strictly adhere to the approved course plan. The students in a class are divided into different groups and each group is assigned to a faculty during tutorial hours. The faculty members conduct special classes if there is a flaw in the course delivery. The college provides laboratory manuals for the smooth conduct of practicals. Apart from the course diary, the respective faculty maintains a course file for each course which contains the complete proof to substantiate the claims in the Course Diary.

A class committee with student representatives and faculty members is constituted for all classes. The committee meets at least twice during a semester. The suggestions and decisions of the committee are forwarded to the Principal by the Chairman for further action. Feedbacks from the students are collected periodically and necessary actions are taken to fine-tune the academic process. Furthermore, a course committee is constituted for the courses offered in two or more classes to see that the course is being delivered uniformly.

MBCCET follows a systematic Faculty Advisory System which supports the overall academic process such as mentoring, discipline, industrial visits, Add-on courses etc.

The student's academic progress is evaluated using various assessment tools like tests, assignments and tutorials. The institution follows Revised Blooms Taxonomy (RBT) for the evaluation. The results are reported to the parents through PTA meetings and personal messages. Remedial Sessions and Group Study Sessions are conducted for slow learners. The institution undergoes internal and external academic audits in every semester conducted by IQAC and University respectively to ensure the efficacy of the entire academic process. In addition to the prescribed curriculum, the college has the following strategized ways and means to strengthen the teaching-learning process:

- Well-established library facilities.
- Usage of ICT tools. Outcome-based teaching-learning.
- Technical events like TITs, Conferences, VAP and Project Expo to bridge the curriculum gaps.
- Encouraging students and faculty to complete MOOCs like NPTEL, Course Era. etc. Industrial Visit & Internships as better learning practices.
- FDP for capacity building effective teaching.

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)

The Academic Calendar provides the basic source of information and planner for the students, faculty members, support staff, administration, and management. The Core Committee members of the College prepare Academic Calendar by considering the prescribed guidelines and regarding the calendar provided by APJ Abdul Kalam Technological University. Academic Calendar forms the strong foundation of all academic activities and adheres to the vision and mission of Mar Baselios Christian College of Engineering and Technology, Peermade. Publication of the Academic Calendar begins before the commencement of the academic session. The Coordinators take into consideration the feedback from students, teachers, alumni, parents, and other stakeholders while preparing the Academic calendar. It is placed to the college executive council through IQAC for final approval. The Academic Calendar has displayed on College Notice Board, website, and prospectus. The Academic Calendar provides the following details:

Working Days: The Academic Calendar indicates the annual working days, teaching days, admission schedule, series examinations conducted for all semesters in an academic year, university examination, and evaluation as per the guidelines of the affiliated University.

Curricular Activities: It covers the entire teaching and learning process with the teaching plan which includes a series of tests, assignments, regular conduct of class and course committee meetings which aims at the interaction of students and staff regarding discussions, suggestions, and decisions to improve academics and helps in the smooth conduct of class, Internal and external academic audit which evaluates the work and activities provided to students by staff and student attendance monitoring system. Students are provided with honors and minor degrees in addition and as a whole, it aims to provide an outcome-based education in the curriculum.

Co-curricular Activities: Students are provided with add on courses on various areas of specialization, project/seminar work, field studies, group presentations, technical invited talks provided by experienced professionals, alumni interactions in which alumni students were invited and will share their experience that really motivate the students, Webinars covering wide areas of specialization and remedial sessions which is additional coaching given to students to improve the academic performance qualitatively and quantitatively which are included in the calendar. In addition, placement activities are also added which focus on improving the communication skills, analytical skills thereby making the students capable of attending placement drives with confidence.

Extracurricular Activities: The Academic Calendar also includes activities outside the formal classroom with social relevance. NSS activities like Observation days, celebration days of eminent personalities, and various social awareness programs were conducted. Sports activities are also provided to enhance students both physically and mentally.

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

D. Any 1 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

37

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
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)

0

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template)	No File Uploaded

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

0

File Description	Documents
Any additional information	[View File](#)
Details of the students enrolled in Subjects related to certificate/Add-on programs	**No File Uploaded**

1.3 - Curriculum Enrichment

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

MBCCET is dedicated to foster a healthy environment for the students. It appears that the curriculum designed by the affiliating University does include many of the subjects which address the aforesaid cross-cutting issues. As an affiliated College, the MBCCET doesn't have much space in the framing of the curriculum and syllabus. The institution takes initiative to conduct various programs under different cells & committees to address these issues. For example, there is hardly any course in the curriculum that upholds the necessity of gender equality.

Women Cell Activities:

In MBCCET under the banner of Women Cell, various programs such as seminars, invited talks, etc. are conducted for students and staff which ultimately focus on the importance of gender equality.

Academic Activities /Courses:

For Seminars, Design Projects and Final year projects in curriculum, as far as possible student groups are formed giving potential to gender equality. Few of the courses in curriculum to address environmental sustainability issues are:

- **Sustainable Energy Process Environment,**
- **Health and Safety Environmental Engineering I & II**
- **Air Quality Management Municipal Solid Waste Management**
- **Responsible Engineering**
- **Environment Impact Assessment**

The above courses in one way or the other help to address the cross-cutting issues of environmental sustainability giving potential to the role of engineers in society.

Following courses in the curriculum upholds the human values, professional ethics and awareness on social/interpersonal skills help students to cope up with the demands of everyday life giving importance to human values and empathy.

- Design Engineering
- Principles of Management
- Business Economics
- Responsible Engineering

Yoga and Meditation:

Yoga and Meditation classes are also conducted in the Institution to inculcate values, manage stress, impart empathy, and increase emotional quotient, thus becoming a good human being in society.

Involvement of NSS Unit:

The institution also has a vibrant NSS unit which volunteers many issues of high importance for environmental sustainability like, Plastic waste eradication awareness program, Solid waste disposal, E-waste and its hazards, Plantation drives, etc.

Induction Program for First Years:

The sessions are conducted by the experts on topics like Human Values, Cyber Threats Awareness, Sensitization on Ragging and Anti Narcotic Attentiveness. ACM Chapter, IEEE- Power and Energy Society (PES) also has conducted programs on subjects that address these cross-cutting issues.

Green Initiatives:

MBCCET's commitment to a green environment is substantiated by the activities of the Eco Club which conducts green audits involving students and staff. With these initiatives, most of the cross-cutting issues are addressed through the courses in the curriculum or conducting programs outside the curriculum.

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

30

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

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

164

File Description	Documents
Any additional information	No File Uploaded
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

A. All of the above

institution from the following stakeholders
Students Teachers Employers Alumni

File Description	Documents
URL for stakeholder feedback report	https://www.mbcpeermade.com/Add-on/Feedback%20Forms/37/2
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	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows   A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	https://www.mbcpeermade.com/Add-on/Feedback%20Forms/37/2

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

185

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

12

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

A well-laid-out mechanism is present for continuous monitoring and evaluation of the students. We have a blend of slow and advanced learners as the Engineering Institute is located in a rural area. The Institute always gives special care for improving the performance efficiency of slow learners. In the case of advanced learners, proper guidance is provided by the Institute members to attain higher levels of learning experience and improve leadership skills. Every year, a well-planned induction program is conducted to motivate newly admit and familiarize them with the university curriculum and the resources available at the institute.

Chief Faculty Advisor/Faculty Advisors (CFA/FA) identify the slow learners and advanced learners in every batch by conducting, internal exams, assignments, etc. CFA/FAs categorize advanced and slow learning students based on their academic performance. Students who secure marks below 50% are considered slow learners. For enhancing the performance of slow learners, remedial classes are conducted. In these sessions, slow learners are supported for solving previous year question papers and will be encouraged to do more tutorial problems. A remedial test will be conducted for assessing the improvement level of slow learners at the end of the special coaching.

Advanced learners are encouraged to attend knowledge developing events such as NPTEL courses, webinars, national-level workshops, technical competitions, national/international conferences, etc. Special placement training classes are provided for both advanced and slow learners to improve their performance in placement drives. Technical Invited Talks (TIT) by Industrial experts and alumina are conducted for slow and advanced learners in order to bridge the gap between academia and the industry. Advanced learners are motivated to be a member

of various professional bodies, which helps them to join various networks with eminent personalities and experts in the field.

Every year, a well-planned induction program is conducted to motivate newly admit and familiarize them with the university curriculum and the resources available at the institute.

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
678	58

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

The teachers act as a catalyst and students play a dynamic role in the learning process. Being an Affiliated college of KTU, our involvement in the design of curriculum and syllabus is minimal or null. However, Institute takes maximum measures to foster the students to be the most responsible citizens of our nation.

Teaching-learning methods adopted by the faculty members include lecture modes, interactive modes, project-based learning, computer-assisted learning, experiential learning, tutorial sessions, etc. The teaching-learning activities are made effective through illustration and special lectures. To acquire first-hand knowledge on the subjects and current practices, students are engaged in various activities rather than classroom lectures

Furthermore, the institution encourages students to participate in various technical events so that they can showcase their innovative ideas. Many students from different departments

attended various technical events and demonstrated their ideas, which were well appreciated, and bagged prizes/funds from KSCSTE (Kerala State Council for Science, Technology, and Environment.)

Though the curriculum has a 'design project 'in one of the semesters, as a policy of the institution, we encourage students to come up with innovative design ideas which will address many societal issues.

In addition, we have a subject in the curriculum called design engineering, here the students are divided into heterogeneous groups, which comprises slow, average, and advanced learners. In the class brainstorming sessions, debates, etc. are conducted this will enable the students to enhance their interpersonal communication, presentation skills and at last, the students will demonstrate their ideas in front of the panel. In higher semester students have to undergo various phases of the project in their academics.

To inculcate the values and to address the various societal issues, awareness programs, plantation drives, etc. students are given the opportunity to associate with NSS units of our institution.

In laboratories, the experiments are conducted on a cycle basis. This will help to concrete their theoretical knowledge and we motivate the advanced learners to support the slow learners. The institution has installed Wi-Fi on the campus to support the educational activities of the inmates. Also in our curriculum, there is one subject named "Life Skill". This subject aims to improve the professional qualities among students, especially communication skills and leadership qualities.

Summer Internships are considered an important career stepping stone at MBC College of Engineering and Technology. Summer internships teach valuable on-the-job skills and provide excellent upgrading opportunities to the students.

In addition, we have very active student chapters for professional societies like IEEE, ISTE, and IEI. For each society, faculties are playing the role of chapter advisors and monitoring student activities. Even in the middle of the covid pandemic, students are getting many opportunities to participate in various technical events and workshops through these professional societies.

In the teaching-learning process, for effective delivery, along with intensive ICT tools, Group Discussions, Debates, and Brainstorming sessions are conducted. This helps to enhance students' interpersonal communication and presentation skills. The pedagogical methods like Peer-to-Peer learning, model makings, scale-ups, critical pedagogy and role-plays are also conducted not only to facilitate a better understanding of the subjects but also to bring out the analytical skills and lateral thinking

MBCCET emphasizes project-based learning. We have a cell called CiTE, which is dedicated to innovations from the students. As part of this, every year project idea competitions named 'SPARK' are conducted. This program helps the students to come up with innovative ideas, which can be converted into live projects.

In our laboratories, the groups are formed and the experiments are conducted on a cycle basis. This will help to concrete their theoretical knowledge and we motivate the advanced learners to support the slow learners to follow peer-to-peer learning. The institution has installed Wi-Fi on the campus to support the educational activities of the inmates. Also in our curriculum, there is one subject named "Life Skill". This subject aims to improve the professional qualities among students, especially communication skills and leadership qualities.

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

Information and Communication Technology (ICT) tools are used to explore, analyze, optimize and exchange information. Teachers are combining traditional methods with technology for efficient delivery of information. ICT enabled teaching uses Wi-Fi enabled class rooms with projector, E-learning materials. The institution adopts ICT enabled tools to enhance the teaching-learning process by using LCD projectors for Classes, seminars and workshops.

ICT can be provided to give students quick access to ideas and experiences, from a wide range of people, communities and cultures. Teaching and learning are activities that contribute to the improvement of student learning and it include use of ICT.

As the Covid pandemic took over the world, institution opted for online classroom teaching using zoom meetings and Google meet. All teachers shared necessary information needed for students in their respective Google Classroom. Series test, seminar and project evaluation were conducted online for assessing their learning process. Webinars, meetings were conducted online during this time.

Following are the best practices undertaken by the faculty members for improving teaching and learning experience:

- Google Classroom
- In addition to chalk and talk method, teachers use Power Point Presentations to expose students to learning.
- The students are also advised to use computer software packages for their projects.
- MOOC courses.

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

45

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

58

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	**No File Uploaded**
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

6

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

382

File Description	Documents
Any additional information	**No File Uploaded**
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.

MBCCET follow a transparent and robust internal assessment process which is in line with the affiliating University instructions /decisions. Each student in any program and course is evaluated through continuous assessment process which includes series tests, seminar, project works, attendance etc.

The internal examination dates are frozen in the beginning of the semester in academic council meeting and is shown in the college academic calendar. The evaluation process bears such a transparency that the answer scripts are returned to the students for their verification and if any discrepancy students can easily approach the course faculty for clarification based on the scheme. Various committee involved in the whole process are internal examination committee which deals the complete conduct of the examination, department question paper scrutiny committee that constituted in the departments with HOD and senior staffs to ensure the standards of the question paper as pre revised blooms taxonomy. Internal marks finalization committee which is also constituted in each department to finalize the internal marks and to address the grievances if any.

MBCCET conducts two series tests of 40 marks each which will be later normalized to 20 marks for the final evaluation. Two assignments will be given for each course which is then together normalized to 10 marks for the internal evaluation. Most of the courses the scheme followed is Internal assessment 50 marks (Series-1 and 2 , 20 marks each, Assignments 10 marks) and 100 makrs External end semester University exam. For 2019 scheme two series test are conducted with 50 marks each which will be normalized to 25, 15 marks for assignment and 10 marks for attendance. For few subjects like engineering graphics, life

skills etc. the scheme is internal marks 100 and external mark is 50. The internal marks 100 is finalized through internal series tests (40 Marks each for Series-1 and Series-2), Assignments (20 marks). If any students fail to attend any of the series tests, then he can appear for the retest to compensate the missed test. University prescribes a minimum of 45 % in internal assessment (2015 Scheme) and 40 %(2019 Scheme) and 75% attendance to be eligible to appear for end semester examination. The entire evaluation process is informed to the students in the first class itself by the Chief Faculty Advisors. The internal marks are published well before the final day of semester not only in department notice boards but also communicated through emails and class whatsApp groups and grievances if any will be addressed by the department committee. For practical classes the evaluation scheme is like internal marks 70 which include, continuous evaluation, viva, Records etc. and final examination 30 marks. For 2019 scheme, practical exam evaluation is like internal marks 75 and external marks 75 constituting to a total of 150.

 Once the internal marks are finalized with the concurrence of course faculty and internal finalization committee it is uploaded in the affiliating University portal duly approved by CFA, HOD and finally the principal and is deemed as the final which can't be altered once it is approved by all.

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 students are communicated about series tests through academic calendar at the starting of the semester. The answer papers are corrected and distributed to the students within stipulated time from the conduction of the series test. The grievances raised in the series tests are solved through the exam cell. Those students who were not able to write the series exams under any medical claims were allowed to attend the remedial exams after giving the medical certificate after being verified by the CFA, HOD and finally sanctioned by principal.

The Covid pandemic happened during this academic year and

teaching – learning process took on online mode. Internal Examinations were conducted in online mode using Google Classroom and Google meet. Students will be informed about dates of Internal examination through CFA/FA and time table will be published. Each subject faculty will upload question paper in Google Classroom at the start of exam. Students will be asked to join Google meet for supervision by respective faculty. The answer scripts are valued and marks will be displayed to students. If any grievences, respective subject staff will take necessary action to solve it. If any student is unable to write any exam due to unavoidable situations, will have to make a request to subject staff, CFA and HOD for conducting retest.

The students are allowed to claim for the internal mark and attendance if any mistakes are found. Students can raise grievances for attendance shortage and internal mark in the grievance cell and the required steps are taken. In this academic year all students were given attendance above 75 % duly informed by University.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	Nil

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.

Program Outcomes (POs) are the knowledge, competencies, and attitudes that students should have at the end of their individual engineering program's course. These are determined by NBA and are based on Graduate Attributes.

Program Specific Outcomes (PSOs) are statements describing what graduates of a particular engineering programme should be able to perform. PSOs are developed by the advisory group for each department, which includes representatives from all stakeholders, including alumni, parents, industry experts, faculty, and others. The PSO is finalised after the committee hears suggestions/feedback from stakeholders. If necessary, the PSOs may be revised or updated in the future once a committee meeting has been held.

The ensuing information and abilities that a student obtains at the end of each course are referred to as Course Outcomes (COs). It specifies the cognitive processes offered by a course. The course committee members discuss and generate the course outcomes, as well as how they relate to programme outcomes and program-specific outcomes. COs are created in the same way for laboratory classes.

For each course, MBCCET provides a course diary, as well as a mapping matrix showing COs mapped with POs and PSOs indicating the levels, which is generated by the faculty and entered in the course diary. POs, PSOs, COs, Course Plans, and Assignments are all included in the course diary. The CO-PO, PSO mapping, and other supplemental information were also used to assess attainment.

The POs, PSOs, and COs of MBCCET have been clearly stated and disseminated to students, teachers, and stakeholders.

1. On the official college website.
2. Syllabi and learning outcomes are kept in hard copy in the departments for simple reference.
3. As departmental bulletin boards.
4. A soft copy has been emailed to everyone.
5. In IQAC sessions, IQAC takes the initiative to highlight the relevance of learning outcomes.
6. In the first class, the Chief Faculty Advisors/Faculty Advisors teach the students about the Learning Outcomes, which are also discussed in class committee / course committee sessions.
7. POs, as well as the institution's vision and mission, department'svision and mission, and other information, are shared with first-year students during their induction sessions.
8. In addition, faculty development programmes are held to raise knowledge about this.
9. Posted on the bulletin boards in class, Laboratories etc.

File Description	Documents
Upload any additional information	**No File Uploaded**
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 program's POs are generated from the Graduate Attributes and clearly specified by NBA, with a total of 12 PO's. COs and PSOs are set by the Department Advisory Board or Committee, which has representation from all stakeholders. This Committed finalizes the COs and PSOs after discussing them at various levels and assessing input. Every course has a certain set of expected outcomes, which are finalized by the DAB after careful consideration of the Course Objectives. The course faculty thoroughly explains the Course Objectives, Course Outcomes, POs, evaluation patterns, and marking scheme to the students at the start of each semester.

The assessment methods and tools used for the evaluation attainment of POs, PSOs and COs are explained below.

For COs Assessment:Direct Assessment and Indirect Assessment are the two basic types of assessments. Internal assessments, such as internal tests, assignments/tutorials, seminars, projects, attendance, lab assignments, and so on, are used to evaluate students' performance in Direct Assessments, as well as external assessments, such as end-of-semester university examinations, project evaluations, and laboratory exams. Each CO will be mapped with POs and PSOs at first, with markers such as strong, medium, and low. Similarly, COs will be assigned to each question on the internal test.

For each internal test, an internal evaluation data sheet is created with the marks received for each student per question as well as the CO connected with each question. Normalized marks for each CO are calculated when the DQAC committee assigns the necessary weightage to internal examinations and assignments/tutorials. After establishing a Benchmark and Target Levels, the Attainment Level is determined. After assigning

equal weight to each CO university attainment level, a target level was calculated. The final CO attainment is derived after conducting a course exit survey, with varying weightings for internal, university exams, and exit survey.

For POs & PSOs Assessment:Direct and indirect assessments are also used to accomplish this. The average PO attainment is determined first in the Direct approach, which is a reflection of students' success in their internal/external evaluation, utilizing the already mapped CO-PO matrix and the CO attainments data. These strategies give significant proof of student learning by providing a sample of what students know and/or can do. Finally, data from indirect methods such as student feedback, exit surveys, alumni, parent feedback, and employer feedback are taken into account. Finally, the weighted sum of direct and indirect assessment is computed, and the achievement of PO/PSOs is assessed. The college IQAC usually assigns an 80 percent weighting to direct evaluation and a 20 percent weighting to indirect assessment.The data used to assess attainment levels are called attainment figures. The institute creates development plans depending on the degrees of achievement.

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

110

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	**Nil**

2.7 - Student Satisfaction Survey

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

https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_2/2_7_SSS.pdf

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)

0

File Description	Documents
Any additional information	**No File Uploaded**
e-copies of the grant award letters for sponsored research projects /endowments	**No File Uploaded**
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

5

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	<u>View File</u>

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

0

File Description	Documents
List of research projects and funding details (Data Template)	<u>View File</u>
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 MBCCET has created an ecosystem for innovation by establishing two centres viz. Centre for innovative Technology and Entrepreneurship (CiTE) and Centre for Research initiatives in Science and Engineering (C-RiSE).

CiTE

The CiTE wishes to foster innovation driven entrepreneurship among the faculty and students through mentoring and training. The objectives of CiTE are to:

- **Promote the culture of innovation among the students of MBCCET.**
- **Develop new products and services, acquire patents and market the products.**
- **Engage research leading to introduction of innovative**

products.

- Facilitate venture capital funding.

CiTE provides funding for innovative projects based on joint proposals from students and faculty members of the institution. Some of the innovative projects funded by CiTE are Multi-Purpose Automatic Crop Dryer, Ecofriendly Meeting Corner, Automatic Banana Chips Slicer, Automated Rubber Tapping Machine etc. CiTE has a practice of promoting innovative ideas among students by conducting idea competition called "SANKALPPAM 2021" and cash prize is awarded for the best innovative projects in each department.

The institution has established an Institution's Innovation Council (IIC) as per the norms of MHRD's Innovation cell. The Innovation & Entrepreneurship Development Cell of MBCCET is approved by Kerala Startup Mission (KSUM) and District Industries Centre (DIC), Government of Kerala. Our Institution is also empanelled under Pradhan Mantri Yuva Yojana scheme by Ministry of Skill Development & Entrepreneurship.

The institution consistently provides motivation, support and platform for students to showcase their skills and knowledge in various competitive technical events. Students are participating in numerous technical competitions at national and state levels like Smart India Hackathon, Young Innovators Programme by K-DISC, INNOVATE of KSCSTE, IEDC Summit by KSUM, TEKON by KSCSTE and APJAKTU etc. For preparation of the competition, facilities like internet, library, required infrastructure in terms of space and equipment have been provided.

C-RiSE

The C-RiSE coordinates all research activities of the institution and research based product development. The objectives of C-RiSE are to:

- Create an excellent educational environment through frontline researches and inter disciplinary research collaborations.
- Support funding for research projects and review the research proposals for utilizing external funding

opportunity.
- Coordinate conferences, symposiums and workshops to promote research culture among the stakeholders.
- Conduct cutting - edge researches to develop new academic and technological fields.
- Discover new fact-based principles and rules in natural phenomena to create new technologies
- Conduct researches that contribute to the development of human resources & the societal needs.

The communication and coordination works related to research and the dissemination of scientific and technical works are mainly looked after by the Research Advisory Committee (RAC). RAC is formulated with the Principal as the Chairman and the Dean (Academics) as the Convener. A dissemination system is maintained by the research coordinator whereby faculty members and students are informed of the following:

- Opportunities to respond to calls for papers
- Announcements on applying for research grants
- External calls to attend research seminars and Potential collaborative research projects

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

1

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

0

File Description	Documents
URL to the research page on HEI website	**Nil**
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	**No File Uploaded**

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

14

File Description	Documents
Any additional information	**No File Uploaded**
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

0

File Description	Documents
Any additional information	**No File Uploaded**
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

The MBCCET gives importance to social outreach activities to help the neighborhood and to instill social responsibilities among students.

National Service Scheme

The institution has an active NSS unit (Unit No. 180) under Directorate of Technical Education, Government of Kerala through which different extension activities are planned for each year. The unithas adopted Pothupara village as beneficiary for its activities. Our regular social service activities include environmental protection, energy saving, waste management, gender equality, healthcare support, awareness programs, educational initiatives and livelihood opportunities. The various programs organized by NSS unit are as follows.

- **Republic day celebration**
- **Thanal**
- **Saved Dreams : Provide online class facility to students**
- **National Energy Conservation Day**
- **NSS Day celebration**
- **World mental health day**
- **Gandhi Jayanti celebration**
- **MBC Mask making challenge**
- **MBC Blood donors registery**
- **Un locked ceativity at lockdown**
- **Short film and awarness video**

Pradhan Mantri Awaas Yojana - Gramin (PMAY-G)

Pradhan Mantri Gramin Awaas Yojana is a social welfare flagship programme, created by the Indian Government, to provide housing

for the rural poor in India. The faculty members and students of the Department of Civil Engineering has given technical support for planning, design and estimation of low cost house as per PMAY-G scheme to Kattapana Block Panchayat. MBCCET received Merit Award from Rural Development Department, Kerala for the excellent service.

Pradhan Mantri Gram Sadak Yojana (PMGSY)

Pradhan Mantri Gram Sadak Yojana, was launched by the Govt. of India to provide connectivity to unconnected habitations as part of a poverty reduction strategy. The Department of Civil Engineering of MBCCET has given technical support for planning, design and estimation of road connectivity between Pallikkunnu and Peermade taluk hospital (PMGSY scheme) to Peermade Panchayat as per the request from local community. Later, the proposal was revised in line with Nava Kerala Mission (Rebuild Kerala), launched by the Government of Kerala to enhance the lives of the people in the State.

Kerala Flood Rehabilitation Activities

Faculty members and students of MBCCET have actively participated in the flood related rehabilitation activities in response to the big calamity affected to the state. Faculty members of the institution acted as technical advisors for Care Home Project, Idukki (Flood Relief Project, Co-operative Department, and Government of Kerala) and Life Mission, Idukki for the project Surekshitha Koodorukkum Keralam (Flood Relief Project, Azhutha and Kattapana Block Panchayat).

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

0

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	**No File Uploaded**

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

11

File Description	Documents
Reports of the event organized	**No File Uploaded**
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

413

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

0

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

5

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 college campus is situated in 30.5 Acres of Land with a total build-up of 37395 Sq.m which inhabits well-furnished Offices & Departments, ICT enabled Classrooms & Seminar Halls,

Conference Hall, well-equipped Labs, Central Library, Central Computing Facility, Auditorium, Hostels, Quarters, etc. commissioned as per the norms of the statutory bodies. The campus also consists of Football, Basketball, Volleyball, and badminton courts along with a 400-meter track.

The Institution has an adequate computational facility on the campus and students can undergo online courses like SWAYAM Also the college is an approved National Test Centre (NTC) and Test Practice Centre (TPC) of the National Testing Agency (NTA) and through which the registered candidates can take practices for online exams like JEE, RRB, Bank test, etc.

- Class Rooms, Tutorial Halls, Seminar Halls

The institution has 22 classrooms, 5 seminar halls, and 5 tutorial rooms, a drawing hall, Mini auditorium, and open auditorium in the Academic Block and all the classrooms and seminar halls are ICT enabled with Projectors, Sound, and LAN/Wi-Fi facility in order to ensure the effective teaching-learning process.

- Laboratories There are 34 laboratories in the institution including one Research Lab. All the labs are equipped in order to fulfill the academic requirements as well as research and consultancy purposes beyond the curriculum. The labs are installed in Laboratory Block, Workshop Block, Mechanical Block, and Academic Block. All the labs are well furnished and equipped with high configuration machines, equipment, and software.

- Computing Equipment

The institution has 10 computer labs with 420 systems for the teaching-learning process. In addition, there are 40 computers in various departments and offices. All the systems are connected through a local area network and the backbone of the network is done using Optical Fiber Cable. Round-the-clock internet facilities are provided in all the systems using a 100 MBPS 1:1 Leased line internet connectivity. Also, controller-based Wi-Fi facilities are available in the campus, hostels, and quarters with 96 Wi-Fi access points. The internet traffic is monitored, controlled, and secured using Sophos XG230 UTM (Unified Threat Management system) which has network protection, anti-virus, anti-spam, web filtering, content filtering, etc.

All the students and staff have individual credentials to log in to the system and dedicated storage space is provided in the file server. The storage servers are RAID -5 configured in order to prevent data loss due to hardware failure.

Facilities for the teaching-learning process.

Sl No

Facility

Total Nos

Total Area (m2)

1

Class Rooms

24

1586.62

2

Tutorial Rooms

5

451.92

3

Laboratories

33

4160.79

4

Research Lab

1

38.53

5

Central Library

1

407.53

6

Department Library

5

147.93

7

Central Computing Facility

1

155.33

8

Seminar Hall

5

588.58

9

Conference Hall

1

90.44

10

Drawing Hall

1

392.18

11

Open Auditorium

1

548.52

12

Mini Auditorium

1

232.05

13

Faculty Room

10

579.88

14

Health Centre

1

26.32

15

Data Centre

1

33.25

16

Exam Cell

2

184.46

Additional Document

Sl No

Building Name

Details

Area (m2)

1

Main Block

Contains the Offices, Academic Classrooms, Library, Central Computing facility etc

11913.78

2

Laboratory Block

Consists of Labs under Electronics & Communication Engineering, Computer Science & Engineering, Electrical & Electronics Engineering

3120

3

Workshop Block

Contains Electrical Engineering Labs, Civil Engineering Labs and Mechanical Engineering Workshops

1262

4

Mechanical Block

Contains Mechanical Engineering Labs and Civil Engineering Labs

2092

5

Men's Hostel -I

Hostel facility for the 1st year and 4th year Gents students

3302.7

6

Men's Hostel – II

Hostel facility for the 2nd year and 3rd year Gents students

3196.5

7

Ladies' Hostel – I

Hostel facility for the 1st year and 4th year Ladies students

3302.7

8

Ladies' Hostel – II

Hostel facility for the 2nd year and 3rd year Ladies students

3686.29

9

Principal Quarters

Accommodation facility for the Principal & Family

184.62

10

Guest House-I

Accommodation facility for the Guests with family

120.00

11

Guest House -II

Accommodation facility for Guests (Gents)

61.5

12

Family Staff Quarters

Accommodation facility for the Staff and Families

537

13

Staff Quarters- I

Accommodation for the staff of the college

840

14

Staff Quarters-II

Accommodation for the staff of the college

126

15

Worship Centre

Worship facility for the students and staff of the college

267.15

16

Canteen

Canteen facility for the staff and students of the college

502

17

Security posts

Main Gate and ladies Hostel Security Post

11

18

Generator Room

Placed 2 nos of 160 KVA diesel generator for providing power backup to the college

26

19

Water Filter Room

Installed the centralized water purifier for providing filtered water to the campus

18.9

Total

34570.14

In addition to the above, the college provides a number of common facilities

Sl No

Facility

Details

1

Leased line Internet facilities

The college has a 100 MBPS 1:1 Leased Line internet connectivity for the use of staff and students

2

Wi-Fi facilities

The college provided 24 hours Wi-Fi facilities for the students and staff of the college in the entire campus, hostels, and quarters with 100 no's of controller based access points

3

ICT facilities

All the classrooms and seminar halls in the college is ICT enabled with Projector, Sound and Internet/ Wi-Fi facility.

4

EPABX Facilities

All the offices, departments, labs, hostels, and security posts are connected through the EPABX phone system with individual extension nos.

5

Centre

Centre facility to maintain the Storage Servers, Software servers, Switches, Firewalls, etc

6

Canteen & Cafeteria Facilities

The college has a mini cafeteria inside the Academic Block and a canteen in the campus

7

Sports Facilities

The college provided adequate facilities for the sports, indoor and outdoor games

8

Fitness Centre

A well-equipped Gym facility is provided on the campus for the Boys and Girls separately

9

Computational facilities

Computational facilities are provided to the staff and students in 10 numbers of labs including Central Computing Facilities

10

Health Centre

A full-time nursing facility with a 4-bed capacity is available on the campus. Also, a first-aid-kit is provided in all the Departments and Labs.

11

Rainwater harvesting

There are 10 Rain Water Harvesting units with a total capacity of 10 lakh litres.

12

Centralized Water Purification System

Provides filtered drinking water to the entire campus

13

Yoga and Meditation Centre

Dedicated space is provided for the staff and students in order to practice Yoga and Meditation.

14

Co-operative Society

Provides various study materials, stationery items, etc in an affordable cost.

15

Reprographic Facilities

In order to provide various reprographic facilities such as Photostat printing, spiral binding, hard binding, lamination etc

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

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

The institution encourages and supports extracurricular activities in order to enrich the talents of the students such as sports, games, meditation, music, dance, quizzes, technical events, etc. As most of the students are staying in the college hostels, they can utilize the facilities during the morning and evening timing on a regular basis.

Various sports facilities such as Cricket, Football, Basketball, Volleyball, Handball, Table Tennis, Athletics, Chess, and

Badminton, etc. are provided for the students to ensure the focus of the institute in providing extra-curricular activities to both students and staff and the details of the facilities are listed below:

Sl. No

Name

No of Courts

Area

Year of

Establishment

Outdoor Sports & Games facilities

1

Play Ground

1

90 x 120 m

2001

2

Basket Ball court

1

28 x 15 m

2008

3

Volley Ball court

1

18 x 9 m

2005

4

Cricket Nets

1

3.66 x 3.05 m

2016

5

Football Field

1

110 x 65 m

2001

6

Cricket Field

1

110 x 55m

2001

7

Handball Field

1

40 x 20 m

2001

8

400 Meter Track

1

1 x 400 m

2001

Indoor Sports & Games facilities

1

Indoor Badminton court

4

 13.4 x 6.1 m

2008

2

Table Tennis

2

2.74 x1.5 m

2005

3

Carroms & Chess

4

6.3 x 5.0 m

2001

Gymnasium

1

Gym (Men)

1

16 x 10 m

2009

2

Health club (Women)

2

6 x 4 m

2018

Yoga Centre

1.

Meditation Room

1

6.3 x 5.88 m

2015

Gymnasium:

The equipment available in the Gymnasium are listed below

- Weight lifting
- Dumbbell sets
- Pull-up bars
- Squat stations
- Bench Press
- Leg Press
- Push-up stands
- Orbotrect
- AB King Pro

Yoga & Meditation Room

A dedicated facility is provided to practice yoga and meditation for the students and staff of the institution. It is a calm and

quiet area with a great ambiance and wide windows. Yoga and meditation are practiced regularly by the students and staff and Yoga day are being celebrated every year by the students and staff of the college.

Cultural Activities

The institution has provided facilities to the students for cultural activities. The college has a musical drum set and 2 sets of Public addressing systems dedicated to the practice of the students. They can utilize the Seminar Halls, Mini Auditorium, and the Open Auditorium for various events. College Arts Day "Thandava" is being celebrated every year along with a number of competitions and the students can perform various cultural programs, theme shows, musical bands, etc. A National Level Intercollegiate Technical cum Cultural competition "Swastika" is held in the institution every year for two days. Students from all over India participated in the various Technical and Cultural competitions conducted for the same. Cash awards and certificates are distributed to the winners of every event. Fully decorated and closed stage along with special light & sound effects and LED walls are arranged during the Arts Day and Technical Fest days.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.mbcpeermade.com/Resourses/Physical-Education/5

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

27

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.mbcpeermade.com/Resourses/ICT-Facilities/29
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)

249.188

File Description	Documents
Upload any additional information	View File
Upload audited utilization statements	View File
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)

Response:

Name of ILMS software   - Campus Management System

Nature of automation (fully or partially)   - Fully Automated

Version   - 2.2

Year of Automation   - 2013

The library of the institution is fully automated using the

software Campus Management System version 2.2 and all the library operations such as acquisition, circulation, cataloging, etc are processed through the software system only.

All the library functions are fully integrated with Barcode and RFID. Entire books in the library are barcode labeled and the Identity cards of the staff and students are RF-based as well as Bar Code labeled ID cards. Both are integrated with the Campus Management System library software. There are three barcode readers and two RF-ID readers in the library which makes the library transactions like an issue, return, etc very fast, convenient, and error-free for the users.

Automated Gate Entry system is available in the library. Students and staff have to swipe their ID cards during their entry and exit in the library. Various reports such as daily usage reports, user wise reports, department wise reports, etc can be taken by the library staff.

Online Public Access Catalogue (OPAC) is also available in the library. Using this facility, students and staff of the college can search all the details of the books like availability, due dates, number of copies, etc. by using Author Name, Title, Accession Number and keywords, etc. The entire details are accessible from anywhere through the internet.

Users can view their book transaction details such as books in hand, each book's due date, current fine amount, etc through their login page. They can also view their entire book history of previous years. Also, the library usage of any user can be viewed by the authorities.

Library staff can take various reports like transaction reports, user-wise reports, book reports, book usage reports, statistics reports, etc within the software with custom attributes.

Most of the E-resources like E-books, Online Journals, Previous University Question papers, NPTEL videos, etc. can be accessed in any system or mobile device through WiFi or LAN within the campus.

A digital library with 10 computer systems is also provided to the users to access the e-resources such as e-journals, e-books, NPTEL lectures, etc. A separate register is maintained for monitoring the usage of the same. The support and supervision of the library staff will be available for the digital library

users throughout the time.

Name of ILMS Software   Nature of
Automation   Version   Year

 MBC Campus Management
Fully
2.2   2020-21

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://www.mbcpeermade.com/Resourses/Library/4

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)

10.04

File Description	Documents
Any additional information	**No File Uploaded**
Audited statements of accounts	<u>View File</u>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<u>View File</u>

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

19

File Description	Documents
Any additional information	**No File Uploaded**
Details of library usage by teachers and students	<u>View File</u>

4.3 - IT Infrastructure

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

- **System The institution updates about 30 to 50 systems every year from the existing outdated configuration systems to the configuration required for the future usage of the Lab/s.**
- **Softwares: - The institution has a valid Microsoft Campus Agreement license which will be renewed every year. Hence all the updates of most of the Microsoft products are available on the campus. Also, the institution uses open source software which will be updated frequently. On every semester break, the systems will be fully formatted and reinstalled using the latest releases of software updates.The software used in the Labs is updated frequently according to the curriculum requirements. The software used in the office and Departments such as Tally ERP, Campus Management Software, etc is updated as per the requirements**
- **Internet & Wifi There are 97 Wi-Fi access points with dual bandwidth support (2.4 GHz and 5 GHZ) connected to a single Wi-Fi Controller unit. The Wi-Fi access points are installed within the academic blocks as well as in the Hostels and Quarters. 100 MBPS 1:1 Leased Line internet**

connectivity provides round a clock fast browsing environment to the students and staff of the college. The details of the WiFi access points are given below

- Sl No

  Block

  No of access points

  1

  Main Block

  20

  2

  Staff Quarters

  6

  3

  Men's Hostel-I

  19

  4

  Men's Hostel-II

  18

  5

  Ladies' Hostel-I

  18

  6

  Ladies' Hostel-II

  15

7

Principal Quarters

1

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.mbcpeermade.com/Resourses/IT-and-ITES-Facilities/73

4.3.2 - Number of Computers

360

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)

38.53

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

Maintenance

The campus maintenance is done by several committees depending on the requirements of the institution. The committees and their roles are as given below:

- **Building Committee**
  - **The committee analyses the infrastructural requirements of the buildings of the institution and finalizes the works to a selected firm from the quotations received.**
- **Purchase Committee**
  - **The equipment required for the maintenance, up-gradation, or setting up of the laboratories, departments, office, hostels, etc are processed and the purchase order is issued after analyzing the quotation**
- **Library Council**

This committee collects the book requirement details from all the departments and classes and will submit the proposal for the same.

- **Computational Facilities Committee**

The requirements/suggestions of the staff and students of the college regarding the IT infrastructure are analyzed and processed.

- **Sports Advisory Committee All the suggestions and requirements related to sports, indoor and outdoor games are processed by this committee.**
- **Canteen Committee**

The committee analyzes the complaints suggestions and requirements regarding canteen and recommends the remedial actions to the authorities.

- Bus and Transportation Committee

The committee ensures a safe and comfortable transportation facility for the users. The committee recommends remedies to the authorities for the complaints/suggestions received.

- Green Protocol Committee/ Eco club

The committee gives instructions and suggestions to reduce plastic disposables and to alternate them with reusable things. Also, the committee gives a set of measures to implement in the campus, hostels, canteen, and various functions to make the non-biodegradable wastes to a minimum in the campus.

Annual Maintenance Contract

Annual Maintenance Contract is made available for the computers, UPS, and Water purifiers of the college.

Civil & Electrical maintenance

The Civil & Electrical maintenance works are carried out by the Project and Maintenance Department of the college. Various manpower like Masons, Electricians, Plumbers, Carpenters, and Casual labors are available for the execution of works.

IT & ITES maintenance

This department handles the installation and maintenance of all the Computers, Servers, Wifi, networks, Printers, Scanners, EPABX, CCTV, Software, UPSs, Projectors, etc on the campus.

Laboratory Maintenance

The maintenance of the laboratory equipment is processed by the Lab-in-Charges and the technical staff of the laboratories.

Transport maintenance

The minor transport maintenance works are done by the in-house

service personnel and the major complaints are outsourced to the external agencies through the proper channel.

Campus Maintenance

The campus maintenance such as cleaning, beautification, and gardening, etc of the college is done by the 14 housekeeping staff and 6 casual laborers under the supervision of the Project and Maintenance Department.

Procedure for the maintenance works of the college.

- Any staff or student can register a complaint with the concerned section.
- Once a complaint is registered, the section head assigns staff to inspect the same and rectify the problem.
- For minor complaints, the in-house staff themselves fixes the problems immediately and close the complaint.
- For items under warranty/AMC, the complaint is registered and the details are recorded for necessary follow-ups.
- For the remaining cases, the request letter along with the service/item estimates are submitted by the HOD/Authorities to the Principal for getting sanction from the Management.
- Once the request is sanctioned, the work order is processed immediately by the concerned department
- While the complaint is fully rectified, the final bills are submitted along with the signature of the HOD/authorities and close the complaint.

Utilization of infrastructure

- The institution utilizes the entire infrastructure and facilities to its maximum by the students and staff to fulfill their curricular, co-curricular, and extracurricular requirements as well as by outsourcing the same in various manners.

- Various remedial classes, online training programs, technical talks, seminars, paper presentations, etc are conducted frequently in the institution for the students, staff, and also external participants.
- The laboratories are utilized by the students and staff to enrich their technical knowledge and to do project works. Several Hands-on Training sessions are conducted in various labs with internal and external participants.

- The library is open from 8:00 AM to 6:00 PM and can carry out library transactions throughout the time. Also round the clock access of e-resources is provided to the users within the campus.
- The sports facility can be utilized from Morning 5:30 AM to 7.30 A.M and Evening 4.00 P.M to 6:30 PM. Various intercollegiate tournaments for Cricket, Football, and Basketball are conducted in the college.
- The Central Computing Facilities are accessible from 8:50 AM to 6:00 PM and 24×7 Internet and Wifi facilities are provided. Computational facilities are utilized to conduct various online examinations like GATE, JEE, Railway Exams, Bank Exams, etc, and for attending mock exams. The college is an approved test center of the National Testing Agency (NTA), Tata Consultancy Services (TCS), NSEIT, etc.
- Several programs from external agencies for the internal and external participants were conducted in the college Open Auditorium, Mini Auditorium, seminar halls, etc.
- As the campus is well maintained and lush green, it is utilized for the cinema and serial shootings during holidays and off times.

Procedure for Utilization of Infrastructure for External Users

- A request letter with a detailed plan of usage of infrastructure with date and time of access, places of access, additional facilities to be provided by the institution, manpower provided by the institution, finance details, etc has to be submitted to the Principal and Bursar.
- The request is forwarded to the concerned sections for a detailed report along with the remarks and recommendations
- The request along with the report is submitted to the Management for the approval of the infrastructure access and financial details.
- Once the request is approved, an agreement or MoU is signed by the institution and the external party.
- After the event, the concerned department verifies the infrastructure and other item's conditions and gives usage/damage reports along with an estimate of items consumed/damaged if applicable.
- The final bill will be settled in the college as per the agreement/MoU signed by both parties.

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

189

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	[View File](#)
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)	[View File](#)

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

392

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	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_5/5_1/5%20_1_3_c.pdf
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

59

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

59

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution 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	**No File Uploaded**
Details of student grievances including sexual harassment and ragging cases	[View File](#)

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

104

File Description	Documents
Self-attested list of students placed	[View File](#)
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

8

File Description	Documents
Upload supporting data for student/alumni	[View File](#)
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

6

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

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.

5

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

The statute of the affiliating University (APJAKTU) emphasis the requirement of an active student's council in all the affiliated

colleges. A dynamic College Union through its activities ensures the development of students' personalities, organizational skills, and leadership qualities through various interactive programs. Furthermore, the college union has a considerable role in the activities of the college through the participatory democratic process. Besides, the college union plays an impressive part in the activities of the college in various ways. MBCCET has an extremely powerful and venturesome College Union established right from its inception. The tenure of the college union is one academic year and college union elections are being conducted in a democratic way every year as per the University norms. The mode of election is categorically in parliamentary mode. Class representatives are elected by the students in each class and an Executive committee is constituted by these elected class representatives. The election is conducted under the supervision of Returning Officer and the supporting election officers appointed by the Principal. Lack of consensus, if exists, in the election process is solved through the secret ballot system.

All the elected class representatives constitute the students' Council. The Executive Committee of the College Council consists of College Union Chairperson, Vice-Chairperson (reserved for lady students), General Secretary, Lady Representatives, Sports Secretary, University Union Councillors, Student Editor, and Post Graduate Representatives. In MBCCET all the co-curricular and extra-curricular activities are conceived and conducted by the active involvement of the student council. The union is responsible for all the major technical, cultural, literary, and sports activities organized in the college. The Students Council functions under the guidance of a senior faculty, who will also act as a mentor for the Council.

In MBCCET each & every co-curricular and extra-curricular activity is conducted by the dynamic contribution of the students' council.

The significant activities of the Student' Council include:

- Organizing different festivals like Onam, Christmas, Women's day, Teachers day, etc.
- Organizing events like National Level Intercollegiate Techno-Cultural contests (Swastika), Sports day (Druva), and Arts day(Thandava).
- Publishing College Magazine by the students uniting their imaginative articulations.

All the above events are conducted exclusively by the student council under the guidance of the staff advisors.

Students' welfare Committee:

Students Welfare Committee is constituted in the college in order to address the general grievances of the students. Selected students from each year/branch constitute the committee. By addressing the issues of the students joining in hands with the support of faculty, ensures a foolproof atmosphere and a conducive environment for the students.

College Sports Council:

College Sports Council is constituted with the representation of students who have an affinity towards sports / excelled in sports. The College sports council is guided by the Sports Secretary, who is happened to be a senior faculty & Physical director of the college. The College sports council conducts various sports activities like annual sports day, coaching for students conducting tournaments within the campus, and also gives proper guidance for inter-college sports competition.

Professional bodies committee

Professional bodies are an important committee in any engineering college in order to bridge industry-academia gaps and also to make aware students of the latest trends in the field of engineering. Students chapters of professional bodies are very active in MBCCET and conduct various technical programs every year. IEEE, CSI, ASME, ICI, IE, etc play their role with a great sense of appreciation for the benefit of students.

Career Guidance and Placement cell. (CGPC)

Placement activities of the MBCCET are spearheaded by the career guidance & Placement Cell. CGPC functions under the leadership of Dean - Placements & corporate relations and working under him Placement Manager & Asst. Placement manager. With the help of external experts programs like career guidance, coaching for reasoning ability, Mock Interviews, Training for placements, etc. are being conducted very often.

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_5/5_1/5_3_2.pdf
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

1

File Description	Documents
Report of the event	View File
Upload any additional information	View File
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

Alumni of MBCCET are the backbone in all means and they play a vital role in the overall development of the institution as well. The college has strong and active networks of alumni spread over many countries. One of the main objectives of the alumni association is to support the college vision and to strengthen the ties between alumni, the college, and the community. MBCCET has a registered alumni association, named Mar Baselios Christian College of Engineering & Technology Alumni Association (MBCCETAA) bearing Registration Number: IDK/TC/174/2019, registered under Travancore Cochin Literary Scientific Charitable Societies Registration Act 1955. Office bearers of the Alumni Executive Committee are elected/nominated as per the bye-laws of the Alumni Association. Alumni

Association meetings are held every year. Future plans and actions are discussed in the yearly meetings. Alumni Executive Members' meetings are held three to four times a year. The Annual Alumni meet of the previous academic year was held on 20/12/2020. From 2018, as directed by the College Alumni Association, apart from the Annual alumni meet, department alumni meet are also being conducted to strengthen the alumni activities/contributions in the respective department.

MBCCETAA is live and stays connected via Facebook, WhatsApp, Instagram, LinkedIn, etc, where the current status, current trends in the market, and job potentials are shared. The alumni association also plays a vital role in mentoring, motivating, and sharing knowledge with their juniors. Many of our alumni are placed in the different organizations at thumbing portfolios in India and Abroad, which gives great privilege and pride to our Institution. Our alumni are remarkably contributing to social works and also encouraging current students to do many appreciable activities.

Involvements of alumni are instrumental in organizing various Technical Invited Talks (TITs), Motivational Talks, Seminars, Workshops, and Career Guidance Classes for their juniors. The institution is organizing different activities by inviting alumni whose involvement is beneficial and also rejuvenates the teaching-learning process. Alumni association contributes through financial and non-financial means.

A few of the other areas wherein substantial contributions were received are as follows:

- Financial assistance (Student scholarship) worth rupees 1.6 lakhs was given in the last academic year
- Support to conduct campus drives for placements
- Discussions/seminars on entrepreneurship opportunities
- Contributions to the library in the form of books
- Sharing their corporate experience and motivating the students to bridge the gap between academia and industry
- Apprising the current trends and future scopes in the area
- Conducting alumni interaction sessions
- Internship Opportunities
- Promoting events of the institution
- Supporting Institute Social Responsibilities

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_5/5_1/alumni.pdf
Upload any additional information	View File

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

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

VISION

An Engineering Institute with global quality to groom competent engineers equipped to address the changing needs of society.

MISSION

Our efforts are dedicated for developing a learner centric education environment to: Provide value-based technical learning

- **Practise real world problem solving**
- **Foster team work in engineering design**
- **Inspire innovations and R&D**

The institute Vision statement is defined to enable students to become competent professionals with social commitment. The statement also focuses on enhancement of quality of engineers to meet the standards expected by the job market globally. The idea of "social change through economic progress and economic progress through educating youth of the rural area" is also assimilated during the formulation of the vision.

The governance of the Institution ensures the proper planning and implementation of academic and administrative deeds to comply with institute's vision and mission statements.

Management and Governing Board: Mar Baselios Christian College of Engineering and Technology, Peermade is owned and managed by Malankara Orthodox Syrian Church (MOSC), which is a Religious Public Trust. The President of the Trust is the Supreme Head of MOSC His Holiness Baselios Marthoma Paulose II. The other 17 members of Governing board consists of Educationalists, Entrepreneurs, Advocates, Priests etc. who are elected/nominated from the 2.5 million members of MOSC spread all across the world.

The Principal of the college is a special invitee member of Governing Board meetings conducted once in every six months. The confluent approach of the Management, Principal and Faculty implement the plans in order to uphold the vision and mission of the college.

The policy decisions taken by the management are communicated to the academic and administrative heads through Principal for implementation. Academic Council and IQAC set benchmark for academic, extra and co-curricular activities to ensure quality. The institution strictly adheres to the academic calendar to accomplish its objectives.

Principal constitutes various committees for managing and co-ordinating activities like Professional societies, Eco/Green club, NSS, Grievance Redressal, Anti- Ragging, Alumni Association, Research, Placement Cell, CiTE, C-RiSE, Transportation, Women Cell etc. The Chairpersons/Co-ordinators of various committees are engaged in assigning, delegating, co-ordinating and communicating the responsibilities to the members as per the established system. The Heads of Departments are in-charge of executing the policies of the institution.

The management encourages staff to undergo Faculty Development Programmes regularly for improving the quality of teaching. Parent - Teacher meetings are conducted at regular intervals to discuss the overall progress of the students.

The college has students from all communities, denominations and religions thereby bringing unity in diversity in our college

campus. Industry – Institute interaction is strengthened by undertaking applied research / development oriented projects by students and faculty members. As a part of leadership enhancement, the institution encourages students' participation in the association and professional society activities. Students are encouraged to organize conferences, workshops, technical festivals, sports,seminars, industrial visits etc.

Above activities initiated by the college aims to fulfill the stated Vision and Mission of the institution ultimately.

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/About-Us/Vision,-Mission-AnD-Core-Values
Upload any additional information	View File

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

The College strongly believes in the culture of participative management, which involves President, Governing board, Principal, Bursar, HoDs, Staff, Students and Faculty. The powers are decentralized and everyone from the top to bottom level is accountable for their duties. All academic and administrative activities are decentralized. The participatory role of the management encourages and sustains the involvement of the college staff, which is necessary for the efficient and effective running of the college. Management is always open to have discussion with the Principal and HoDs which in turn encourages the involvement of the staff for quality improvement.

A classical case study event, which depicts the decentralization and participatory management in MBCCET is described below:

INTER COLLEGE TECHNO CULTURAL FEST- SWASTIKA –2019

SWASTIKA - Techno-Cultural fest of MBC, is conducted normally in March/April annually. The various committees and its members comprising of Principal, Bursar, Deans, HoDs, Staff members and students, facilitate the smooth functioning of the events.

1. For preliminary approval, Office Bearers of the Student Council approaches the Principal through Staff Advisor.

2. Principal gives preliminary sanction of the proposal with the recommendations of the academic council after presenting it in the academic council meeting where Staff Advisor of Students council is also an invited member. An executive committee is constituted by ensuring faculty representation from each department.

3. Student council is intimated about the approval by staff advisor and they are asked to submit a proposal, including tentative dates, main co-ordinators, list of events and budget.

4. Staff advisor along with executive committee members meet the main co-ordinators for approving the proposal and forward the same to the Principal for sanction.

5. After approval, the proposal is sent to the management for final consent. Director finalises the financial contributions from management.

6. The executive committee and staff advisor meet the main co-ordinators to discuss about the budget plan and the source of accumulation of fund. Main Co-ordinators are asked to select heads and members under various sub-committees for Publicity & Invitation, Sponsorship, Guest Relation, Food and Refreshment, Reception, Certificate and Printing, Finance, Time Management, Department Events, Stage & Venue from students. A team of faculty and staff members are there in each sub-committee to support the students.

7. The advisory committee decides eminent personalities as guest of honours.

8. Each committee conducts meetings with respective groups of students and faculty for reviewing the progress of the assigned tasks.

9. Minimum two review meetings are conducted with all members of the organizing team before the fest.

10. Cash prizes and certificates are awarded to the winners & participants. The same is intimated to their parent institution

for availing duty leave and activity points.

11. After successful completion of the fest, a feedback meeting with all committee members are scheduled for experience sharing and suggestions for improvement.

File Description	Documents
Paste link for additional information	http://mbcpeermade.com/Co-Curricular/Tech-Fest/24
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

MBCCET has strategic plan in place for next 5 years starting from 2017 for developing the institution into a premier one, sticking on the Vision and Mission. The strategic plan mainly focusses on following directions:

1. Enriching the curriculum with different accreditation

2. Research, Innovation, Consultancy and Entrepreneurship.

3. Learning resources, Industry – Institute interaction, Infrastructure.

4. Green initiatives & Social responsibilities.

MBCCET started practising Outcome Based Education(OBE) immediately after the strategic plan is formulated. POs and PSOs were finalized in consultation with stakeholders, whereas COs were finalized by course faculty and subject experts. Curriculum gaps were identified and filled through various initiatives. College aims to be accredited by NAAC and NBA.

Research and Innovation are the other areas wherein college concentrates. C-RiSE (Centre for Research Initiatives in Science and Engineering) is established in the college. C-RiSE supports for innovative research, fund mobilization etc. Understanding the potential of consultancy and to address societal issue water quality lab along with an IoT (Internet of Things) research lab

is included in the plan.

Learning resources are another area wherein MBCCET focusses. For accomplishing this, Web learning center, Library expansion, MOOCs and NPTEL courses are envisaged. A four-storied Knowledge Tower with a built up area of approximately 25000 sq ft. with Modern Library, Incubation Centers, Convention Centre and Guest accommodations are included in the plan.

To ensure the development of the society, many community development and societal programs are included in the strategic plan. This will help to maintain the environmental sustainability, cleanliness conscious etc.

One activity successfully implemented based on the Strategic Plan:

 MBCCET is located in one of the backward districts of Kerala viz. Idukki. From the previous history, it was observed that the number of students joining for engineering education from Idukki was very low when comparing with the other districts. In order to motivate students joinging for engineering courses, science talent tests were conducted in various schools. Science Club of MBCCET conducts the Einstein Science Talent Test. This aims to enhance the number of students shwoing interest in engineering education from Idukki. MBCCET talent test works on the principle that societal growth by providing special attention to nearby society. The purpose of the test is to identify the talented students and nurture their talents in science.

Einstein Science Talent Test is a diagonal test, which helps students to assess their overall learning ability and educational performance. MBCCET has been conducting this test successfully for past three years. Each year good number of students participated in the tests and it was noticed that number of students attending the program has been increased and subsequently the students opting professional course also got increased. The winners are provided with certificates, cash prizes and trophies.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.mbcpeermade.com/UserFiles/MBC/file/About_Us/Administration/6_2_1_Strategic_plan.pdf
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.

The institution has a clear organizational hierarchy and structure to support decision making process that is consistent with its purposes. "T3- Trust, Truth and Transparency" being the motto of the institution, the organizational structure allows MBCCET to involve stakeholders in various Committees/ Boards. Continuous and meticulous efforts are ensured to maintain quality in both academic and administrative levels.

Governing board gives strategic directions keeping in view the long term goals, vision and mission of the institution. Principal in consultation with the management prepares an action plan which is approved by the college council. Teaching Learning process is monitored by Head of Departments with the support of senior faculty. The implementation of various activities covered under the quality policy is recorded in prescribed quality formats and maintained properly. These are reviewed by two internal audits and one external audit per semester.Different committees are formed for the effective functioning by appointing senior faculty and Head of various departments.

Recruitment of staff is carried out well before the academic process. Teaching faculty members are recruited as per AICTE rules and regulations. Faculty selection committee consist of Governing board members, Principal and respective HoDs. MBCCET follows well formulated service rules and copy of the same is made available to all staff.

Performance of teaching as well as non-teaching staff is evaluated every year. For teaching faculty members, Performance Based Appraisal System with Key Performance Indicators is followed.

Different Grievance Redressal Cells are formed to address the grievances of the students and staff. All these committtes are formed with senior faculty members duly appointed by the Principal. MBCCET grievance redressal process is so transparent that any student/staff can approach the concerned cells for reporting their grievances. Enquiry is conducted as per the rules and adequate measures are taken.

Few different bodies/committee in nutshell supports functioning of the Institution are:

- Governing Board
- Academic Council
- IQAC
- DQAC / PAC
- Disciplinary action committee
- College Council
- Internal Complaint Committee
- Grievance Cell
- Admission Committees
- Welfare Committees
- Parent Teacher Association
- Class /Course Committees
- Anti-Ragging Committee
- SC/ST Cell

File Description	Documents
Paste link for additional information	https://mbcpeermade.com/About-Us/Management/Governing-Board
Link to Organogram of the institution webpage	https://www.mbcpeermade.com/Organization-Diagram
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 inter faces	View File
Any additional information	No File Uploaded
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

The institution with residential campus provides efficient and effective welfare measures for the teaching and non-teaching staff. This is one of our highlights.

Welfare Measures

- **Medical insurance for staff**
- **Co-operative society under society registration act with subsidized charge**
- **Providing free bachelor quarters**
- **Family quarters are provided with subsidized charge**
- **Self-appraisal system for promotion and other benefits**
- **Incentives for publication of papers/research articles in SCI/SCOPUS indexed journals**
- **Rewards for excellent results**
- **Bonus for major regional festival**
- **EPF and ESI for non-teaching staff**
- **Advance salary in case of emergency situation**
- **Provide maternity leave with allowance**
- **30 days vacation leave for faculty members**
- **Provision of college vehicle for medical emergency**
- **Sick room with a dedicated staff nurse**
- **Resident tutors are provided with free accommodation and food with subsidized charge**
- **Provides transportation facilities with subsidized charge**
- **Support for education of the children of staff in the group institutions**
- **Dedicated cabins and Wi-Fi facilities to perform duties**

effectively
- **Recreational facilities like badminton, basketball, table tennis, football and cricket with financial support**
- **Staff club with financial aid for annual activities**

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/Resourses/Staff-Welfare/32
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

0

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

0

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	**No File Uploaded**
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<u>View File</u>

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

12

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	<u>View File</u>
Details of teachers attending professional development programmes during the year (Data Template)	<u>View File</u>

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

Systematic assessment of employee's performance is carried out to interpret the potential of staff, by the college management based on their performance and contribution in teaching,

research, team work, arranging curricular & co-curricular activities and publication works. The transparent self-appraisal system encourages the staff to excel and put forth their optimal effort which is one among the strengths of the institution. Based on the self-appraisal form submitted by the faculty, the management and principal decide the promotion and other benefits.

The following are the benchmarks for performance appraisal for teaching staff.

Teaching , Learning & Evaluation related Activities

- Students feedback on faculty
- Innovative teaching methods followed by the faculty
- Result percentages in the courses handled by the faculty
- Level of attainment in the course handled by the faculty
- Incorporation of ICT tools in the subject delivery
- Adherence to academic calendar and course plan
- Communication and presentation skills
- Understanding and Implementation of OBE Involvement in Mentoring process.

Co-Curricular, Extension & Professional Development activities.

- Participation of faculty in extracurricular activities
- Number of extension activities undertaken by the faculty
- Professional Institution memberships
- Number of Technical Talks, Seminar and Conferences conducted
- Pursuing Higher Studies
- Contributions to enhance campus recruitment
- Contributions to enhance MoU
- Participation in other Administrative bodies
- Number of Papers presented in Conferences
- Timely completion of the responsibilities
- Association with NSS and community activities
- Contribution related to accreditation process

Research publications and Academic related contributions

- **Number of papers published in Journal**
- **Number of FDPs attended**
- **Number of invited lectures of the faculty in outside colleges**
- **Certification courses completed like MOOC, NPTEL**
- **Funded Projects received from Government / non Govt. organisations**
- **Number of Consultancy projects undertaken**
- **Amount of Revenue accumulated through consultancy projects**
- **Number of students guided, novelty of the project**
- **Number of books published**
- **Patents awarded**
- **Number of awards/recognitions received**
- **Monograms, Chapters, research articles published**

The following are the benchmarks for performance appraisal non-teaching staff.

- **Enthusiasm**
- **Sense of responsibility Punctuality**
- **Behaviour with superiors Integrity**
- **Character**
- **Selfstarting attitude**
- **Overall performance**
- **Representation in college various cells and committees**
- **Effective Handling of the labs**
- **HODs Comments & recommendations**
- **Attitude of teamwork**
- **Behavior towards students**
- **Association with NSS and community activities**
- **Assistance in consultancy and project works**

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

Management of the College has appointed two firms of Chartered Accountants, one for conducting internal audit and the other for

external and final auditing.

 Each year's budget showing anticipated receipts and payments is presented before the managing committee of the trust for their consideration and approval. The college used to manage the funds in tune with the approved budget.

Internal audit by Chartered Accountants entrusted for the purpose is conducted twice in a year i.e. at the end of each half year. All receipts and payments including cash and bank transactions are verified by internal auditors. The college is using Tally ERP9 software for its accounting and the internal auditors used to verify this also for assuring correctness of the accounts. Any corrections advised or suggestions made by the auditors will be considered and remedial measures taken accordingly with the approval of competent higher authorities.

External financial audit is entrusted with another firm of Chartered Accountants. After completing internal audit and closing of accounts for the financial year, statutory auditors/external auditors conduct audit for the year. After thorough audit with respect to receipts, vouchers, bank transactions, cash transactions, bank reconciliation statements and other relevant documents, the statutory auditors prepare Receipts and payments Accounts, Income and Expenditure Accounts and Balance Sheet for each financial year. These statements along with audit Report is placed before the Supreme Administrative body of the Religious Public Trust for their detailed verification and approval. Any query or question will be answered and doubts if any be cleared for the best of their satisfaction. All the audited statements are properly filed and maintained. Correctness and transparency in accounting is maintained by the college.

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)

0

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Any additional information	**No File Uploaded**
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

Strategies for mobilization of funds

The college is left with no other alternative for mobilization of its resources. Fees collected from students admitted under Management, NRI and Government quota, strictly adhering to the guidelines issued by Government, is the only source for raising funds. This is utilized for meeting the revenue expenses of the college including scholarships awarded to the students who had secured higher grades in their academics. Funds raised through PTA is utilized for the welfare activities only and at no time used for managing the day to day affairs of the college.

Optimal utilization of resources

- **The salary of teaching and non teaching staff and maintenance cost of the institution is met from the fund mobilized from students' fee.**
- **A part of the fund is utilized for maintaining laboratories and for the purchase of lab equipment, software etc.**
- **The Governing body takes the decision for infrastructure development and fund is provided by management.**
- **Orientation and training programmes for students and staff are conducted regularly.**
- **Each department is allotted fund to organize National Conferences.**
- **If a department needs any requirement, they submit the estimate and request to the Principal through respective Head of the department. After due scrutiny, the Governing**

board gives approval to such proposals.

- **Enough financial support is given to promote sports and games.**
- **Inter collegiate techno cultural programmes are organized annually that develop organizing and leadership qualities of our students.**
- **The institution is very keen to maintain greenery and cleanliness in the campus and fund is allotted as per the requirement.**

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

Yes, the college do have a well-functioning IQAC cell constituted in the year 2017. All the academic systems like Faculty Development Programmes, Conferences, Research oriented Activities, Academic Calendar, Lesson Plan, Tutorials, facilitating slow learners, Encouraging advance learners etc will be done under the strict guidance of IQAC. In order to maintain the efficiency Department Quality Assurance cell is constituted across every department under IQAC. Periodic meetings with DQAC coordinators and Head of the departments helps to run IQAC in a successful manner in the college.

Example 1: Quality assurance for the Internal Exams and Assignments.

The following measures are adopted for ensuring the quality of exams.

- **All the questions are framed based on blooms taxonomy.**
- **Al the questions were mapped against their corresponding Course outcomes and Program outcomes.**
- **A review committee is working in each department under the**

DQAC cell for the scrutiny of the question papers of Internal exams and Assignments, the corrections made by the experts in DQAC should be made before the submission.

- At least 30 percentage of the questions will be of application type which is largely focus on above average students.

Example 2: Advancement in the field of Research

A very well efficient Research Lab is running in the institution under Centre for Research Initiatives in Science and Engineering(C-RiSE).

The following measures are adopted to improve the research culture

- Conducted National level conferences across department in collaboration with good quality publications. (UGC approved).
- Constituted a Research Lab focusing on research based on IoT and Machine learning, with good infrastructure providing IOT related hardware devices and Systems with good configuration associated with Machine learning tools.
- The research and innovations in above said areas helped the students in participation of various events like Smart India Hackathon and various Contests done by different agencies.
- Done subscription of agencies like 'Grammarly' for improving the quality of publication

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/IQAC/About-IQAC/26
Upload any additional information	No File Uploaded

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

- Institute follows Student Centric approach by assessing the knowledge and skills of the students and evaluating the Outcomes using necessary tools.

- The Institution review the outcomes of its teaching process at periodic intervals and has been modifying its policies and methodologies by with periodic Academic Audits. Separate auditing team of well experienced faculties are allotted for every department for the periodic tracking of portion coverage, attendance, internal assessments etc.

- External audit by the experts allotted from the university is also undertaken.

- Internal exams are conducted in periodic manner and analyze slow learners and fast learners and take appropriate remedial actions such as remedial classes, Group discussions, Night Classes etc. for slow learners and encourage fast learners to participate more in online certification courses, paper publications, and research oriented activities.

- The student's quality is constantly monitored by encouraging them in the participation of various National and Zonal events by both government and non-government initiatives, like Smart India Hackathon, Idea Competitions by Kerala Startup Mission etc.

- Department Quality Assurance Cell is constituted in every department with branch. Head of the Department, senior faculty member of the department, representatives of management, industry, alumni, students, PTA and academic experts are the various stakeholders.

- For improving the quality of the students, value added programmes, soft skill training etc. are conducted dealing with the happening in the current scenario which helps them in applying their knowledge in Projects research and placement.

- To make awareness regarding the latest technologies among the faculties institutional level short term training programmes, Faculty development programmes etc. are conducted in every academic year by every department which indirectly helps the students improve their learning outcomes.

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

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)

B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://www.mbcpeermade.com/IQAC/IQAC-Reports/36
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
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

It is evident from all its actions that MBCCET gives due importance for the safety and security with gender sensitivity, Students of MBCCET, irrespective of their gender, are given equal opportunities to grow and develop into able, responsible citizens of tomorrow. Gender awareness classes are organised under the active initiatives of the Women Cell. The students and staff irrespective of their gender in the college work together with mutual respect and cordial relationship while organising

various events.

Main initiatives taken are:

Safety and Security: -

Women Cell 'VAJJRA'-The College has an exclusive Women Cell called 'VAJJRA' for sensitizing both students and staff about gender. The Women Cell organizes different programs like Women's safety & health, self-defence techniques for safety and interactive sessions on gender issues.Committees like Anti-Ragging, Grievance Redressal, Student Welfare, Internal Complaint, Staff Welfare have been constituted to monitor the problems, if any, and provide corrective measures.

But due to lockdown issues we were unable to organize gender equity programs during the last year.

Security Staff: Round the clock security is provided in the campus to ensure the safety & security of students and staff. Details of the visitors and vehicles entering the campus are noted in the security hub.

Residential Campus: Around 70% students are residing in the campus and many of the staff including Principal is campus residents. This adds up the safety conscious of the students especially girls.

Transportation:

MBCCET offer comfortable conveyance for students and staff from different locations and routes, as the college is located in a hilly area. students and staff utilize this facility to commute.

Sports and fitness:

Facility is provided for the physical fitness of the students and staff.

Health Centre:

A health centre with the assistance of a qualified nurse is functioning inside the campus for basic first aid and emergency medical assistance. In case, further check-up is required, vehicle with driver assistance is provided to take them to nearest hospital. Sanitary napkins are kept for distribution in

co-operative society working in the campus. Napkins are disposed using incinerators. In addition to the above facilities, CCTV surveillance in hostels and campus, fire extinguishers inside the buildings, separate indoor courts for girls and boys, assistance of wardens in hostels are provided.

Counselling:

A Counselling Centre under the guidance of Student Advisor is functioning in the campus. This helps to alleviate mental strains and to excel in academics. An effective mentoring system in which a faculty is entrusted to maximum of 20 students is implemented. Yoga & Meditation classes are conducted for the students.

Common Room:

Rest rooms for students are arranged in the main building. Common rest room is provided to lady staff for their leisure and comfort. Separate toilets for boys and girls are provided on every floor of the academic and lab blocks.

File Description	Documents
Annual gender sensitization action plan	It is evident from all its actions that MBCCET gives due importance for the safety and security with gender sensitivity, Students of MBCCET, irrespective of their gender, are given equal opportunities to grow and develop into able, responsible citizens of tomorrow. Gender awareness classes are organised under the active initiatives of the Women Cell. The students and staff irrespective of their gender in the college work together with mutual respect and cordial relationship while organising various events. Annual gender sensitization plan is as follows: ? Health and Hygiene: Interactive sessions with invited doctors on Teenage Health and Personal Hygiene for a healthy life. ? Awareness programmes on Women Rights and Gender equality: To conduct classes related to gender, women's rights and women empowerment for students by the departmental faculty members, NSS, and the Women's Cell. To conduct counselling sessions for the girl students on a regular manner by the lady faculty members of the above mentioned Committees. ? Mentoring system: Provide professional counselling to the students. From the beginning, the new students are to provide a mentor (who will be a teacher of her department). Weekly meetings between the mentor and mentee are to be conducted for them to smoothen the burden of study and to ease the stress in the new atmosphere. ? Entrepreneurship opportunities: Training on arts and crafts using waste materials. ? Cultural activities: To ensure equal rights and participations of girl's students by all means without any sign of gender discrimination in regular cultural activities, sports, NSS, performing arts

	etc. Conduct activities like Blood donation camp, AIDS awareness, female foeticide, dealing with COVID-19 pandemic, etc in association with NSS unit of our college.
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	1.Safety and Security 2.Counselling 3.Common Room It is evident from all its actions that MBCCET gives due importance for the safety and security with gender sensitivity, Students of MBCCET, irrespective of their gender, are given equal opportunities to grow and develop into able, responsible citizens of tomorrow. Gender awareness classes are organised under the active initiatives of the Women Cell. The students and staff irrespective of their gender in the college work together with mutual respect and cordial relationship while organising various events. Main initiatives taken are: Safety and Security: – Women Cell 'VAJJRA'–The College has an exclusive Women Cell called 'VAJJRA' for sensitizing both students and staff about gender. The Women Cell organizes different programs like Women's safety & health, self-defence techniques for safety and interactive sessions on gender issues. Committees like Anti-Ragging, Grievance Redressal, Student Welfare, Internal Complaint, Staff Welfare have been constituted to monitor the problems, if any, and provide corrective measures. Security Staff: Round the clock security is provided in the campus to ensure the safety & security of students and staff. Details of the visitors and vehicles entering the campus are noted in the security hub. Residential Campus: Around 70% students are residing in the campus and many of the staff including Principal is campus residents. This adds up the safety conscious of the students especially girls. Transportation: MBCCET

	offer comfortable conveyance for students and staff from different locations and routes, as the college is located in a hilly area. students and staff utilize this facility to commute. Sports and fitness: Facility is provided for the physical fitness of the students and staff. Health Centre: A health centre with the assistance of a qualified nurse is functioning inside the campus for basic first aid and emergency medical assistance. In case, further check-up is required, vehicle with driver assistance is provided to take them to nearest hospital. Sanitary napkins are kept for distribution in co-operative society working in the campus. Napkins are disposed using incinerators. In addition to the above facilities, CCTV surveillance in hostels and campus, fire extinguishers inside the buildings, separate indoor courts for girls and boys, assistance of wardens in hostels are provided. Counselling: A Counselling Centre under the guidance of Student Advisor is functioning in the campus. This helps to alleviate mental strains and to excel in academics. An effective mentoring system in which a faculty is entrusted to maximum of 20 students is implemented. Yoga & Meditation classes are conducted for the students. Common Room: Rest rooms for students are arranged in the main building. Common rest room is provided to lady staff for their leisure and comfort. Separate toilets for boys and girls are provided on every floor of the academic and lab blocks.

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

Solid waste management:

 Separate bins for biodegradable, non-biodegradable and other solid waste are kept at different locations in the campus.

 A biogas plant is installed at men's hostel for the treatment of food waste. The food waste generated in the quarters are converted into manure in pot compost or pipe compost.

 Incinerators are used for the disposal of sanitary pad waste generated in the ladies hostel. Sign boards are displayed throughout the campus for encouraging waste reduction.

The student units like NSS and Eco-Club are doing many awareness programs in the campus related to waste management.

Liquid waste management:

All waste water lines from toilets, bathrooms and kitchens are connected to the septic tank. The acidic waste generated in the laboratory are neutralized and disposed.

E-waste management:

The students and staff of various departments are instructed to hand over the ewaste including non-working computers, mobile phones, calculators, CD players, printers and other peripherals to the technical staff of the laboratory.

To substantiate the vision of reducing the wastes, MBCCET started implementing e-governance and ICT support in all

administrative and academic jobs with limited paper usage.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	**No File Uploaded**
Geo tagged photographs of the facilities	<u>View File</u>

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	<u>View File</u>
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:

B. Any 3 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	<u>View File</u>
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

E. None of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
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

C. Any 2 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).

MBCCET always encourages the students to organise and participate in different programmes organised by college, inter-college, university to make them sensitize towards cultural, regional, linguistic, communal and socio economic diversities.

Onam Celebration

Onam is celebrated in MBCCET with great enthusiasm. College union and departments organizes various programmes and games which ensures the unity among students.

Christmas Celebration

Christmas is observed as a religious and cultural celebration in the College like the millions of people in the world. MBCCET celebrates as an opportunity to inculcate values like loving everyone, caring the needy, and sharing with family and society. College organises different programmes for staffs and students like Carol singing competition, Cake cutting etc.

THANDAVA (Annual Cultural event) & SWASTIKA (Annual Technical Fest)

The college organises annual cultural meet THANDAVA in every year to promote cultural harmony among students and staffs. Also MBCCET organises technical fest SWASTIKA which acts as a platform for students to showcase their innovative ideas, compete with their peers, and have a feel of the 'real world'.

Due to this pandemic situation we were not able to conduct the above activities in offline mode.

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

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

Independence and Republic Day

Independence and Republic Days are celebrated in MBCCET with great enthusiasm and high patriotic zeal. Principal/Chief guest hoists the flag in the presence of students and staff. To pay respect and to

commemorate the great leaders all salute the flag and recite the National Anthem. To spread the message and importance of the day, Principal / Chief Guest addresses the gathering.

Teacher's Day Celebrations.

Teacher's Day is celebrated on 5th September every year in memory of birth anniversary of Dr. Sarvepalli Radhakhrishnan, a philosopher and a great teacher. In MBCCET we celebrate teacher's day with enthusiasm and respect. Quiz programs, elocutions are conducted along with games. A clear message on the importance of Teacher's in moulding the students as better human being is conveyed.

Gandhi Jayanthi

Mahatma Gandhi birth anniversary (October 2nd) is generally celebrated by organizing programs such as Green Campus and Clean campus activity campaign. Gandhiji's message of nonviolence and its importance is conveyed to the students.

Water & Environment Day Celebrations

These celebrations are done on 22nd March of every year. Awareness is created among the students and staff members of MBCCET about the importance of water. Poster and banners are displayed inside the campus for the awareness. Poster competitions, Essay writing, and Marathons are also conducted to make the celebration colourful.

National Service Scheme Day

National Service Scheme unit of the college organizes NSS day on 24th September to make the NSS volunteers aware of their duties and responsibilities. NSS help the students to develop the feeling of oneness, empathy, compassion and sensitiveness to the needs of the less fortunate.

National Unity Day

College celebrate 'Rashtriya Ekta Diwas' on October 31st paying a respect to the veteran leader Sardar Vallabhai Patel . The participants recite the pledge and display the posters regarding the same. It reaffirms inherent strength of our nation and help the citizens to think about threats to unity of the country.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://www.mbcpeermade.com/UserFiles/MBC/file/Cocurricular/NSS/NSS_Activity_Report.pdf
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 for students, teachers, administrators and other staff   4. Annual awareness programmes on Code of Conduct are organized

D. Any 1 of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various 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

The following programmes were celebrated in MBCCET in association with our NSS unit.

Independence and Republic Day

Independence and Republic Days are celebrated in MBCCET with great enthusiasm and high patriotic zeal. Principal/Chief guest hoists the flag in the presence of students and staff. To pay respect and to

commemorate the great leaders all salute the flag and recite the National Anthem. To spread the message and importance of the day, Principal / Chief Guest addresses the gathering.

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Teacher's Day is celebrated on 5th September every year in

memory of birth anniversary of Dr. Sarvepalli Radhakhrishnan, a philosopher and a great teacher. In MBCCET we celebrate teacher's day with enthusiasm and respect. Quiz programs, elocutions are conducted along with games. A clear message on the importance of Teacher's in moulding the students as better human being is conveyed.

Gandhi Jayanthi

Mahatma Gandhi birth anniversary (October 2nd) is generally celebrated by organizing programs such as Green Campus and Clean campus activity campaign. Gandhiji's message of nonviolence and its importance is conveyed to the students.

Engineers' Day

 As a tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya, MBCCET celebrates Engineer's Day on September 15 every year. As part of the celebration, the college organizes various events for students in association with the Institution of Engineers (India) and cash prizes are distributed.

Yoga Day

MBCCET celebrates International Yoga day on 21st June of every year. Yoga and Heartfulness Meditation sessions are conducted on this day. `Importance of Yoga and meditation for better holistic life is described by the trainers.

Water & Environment Day Celebrations

These celebrations are done on 22nd March of every year. Awareness is created among the students and staff members of MBCCET about the importance of water. Poster and banners are displayed inside the campus for the awareness. Poster competitions, Essay writing, and Marathons are also conducted to make the celebration colourful.

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National Science Day

Paying respect to Indian Physicist Sir C.V. Raman, College celebrate National Science day on 28th February by conducting invited technical talks and give a motivation to the students of the college with scientific minds and also to make them aware of the significance of science in daily lives.

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.

BEST PRACTICE 1

Title of the Practice: Evolving holistic development of engineers by inculcating innovation culture through experiment and experience.

BEST PRACTICE 2

Title of the Practice:

Catering the needs of the slow learners, we develop a culture of inclusive learning, nurturing companionship of advanced learners under the guided association of faculty.

BEST PRACTICE 3

Title of the Practice: Mar Baselios Christian college Semester-wise Academic planning. (MBCSAP)

File Description	Documents
Best practices in the Institutional website	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practices.pdf
Any other relevant information	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practice_1.pdf,https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practice_2.pdf, https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practice_3.pdf

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

MBCCET stands out in embarking spirituality integrating academics, healthy relationships, moral values and leadership skills through which individuals will be able to articulate their purpose. The management of MBCCET is a Religious Public trust (www.mosc.in) with nearly 2.5 million people as its members. The spiritual leader of this trust the President of the Governing Board & other members are elected or nominated in every five years through a democratic approach which makes MBCCET exclusively distinct from other professional and technical institutions. The management also runs 250 other Govt. Aided and Self Financing type educational institutions in the state of Kerala. The various social service activities of the Religious Trust have greatly influenced the development of this

institution.

MBCCET strongly believes that the goal of education is not to create mere graduates of younger generation only capable of understanding the language of machines. Education should help us to attain samskara-spiritual culture and human values also. Being an institution run by spiritual trust, the flavour and fanning of spiritual fragrance can be well visible in its actions. The institution believes that spirituality plays an important role in any education to mould the young students in a tender stage itself to become better human beings useful for the society and the nation. The institution focuses on providing high quality education by establishing effective teaching-learning practices with a deep unification of academics and spiritual values. There is a chapel functioning inside the campus that facilitates the students for their spiritual well beings and classes that inculcate human values and moral esteem are conducted here. The vision statement of the institution focuses on producing quality engineers who can meet the international standards with social commitment. The notion of "social change through economic progress and economic progress through educating youth of the rural area" have been used to shape the foundation of MBCCET. The academic and administrative system of MBCCET imparts technical education to create globally competent professionals making them realize the Economy of the nation by making them to learn Engineering with love for Environment and Nature.

One of the beautiful things which are to be highlighted is the locational advantage, pollution free atmosphere, greenery and natural beauty. This wonderful atmosphere and climate helps the students to go deep in their spiritual side which inturn helps their academics also.

While MBCCET give due importance to spirituality and ethical values in academics, the other initiatives the Institution put up to sink with academics are scribbled below:

- The primary objective of the institution is to provide superior knowledge in technology and giving our students a bright future laden with ethics and human values. The institution also aims at reviving the learning skills with a focus on demands of future, vitalizing teaching learning process, human values, and functional relationship with all the stakeholders for the holistic development of the individual and society.

- To increase the emotional Quotient of the students and to balance their inner and outer mental state, Heartfulness Meditation is offered with the help of authorized trained practitioners.
- Orientation programs which emphasizes on human values, professional ethics, self-respect, spirituality in education etc are organized.
- A serene, placid chapel oozing out sanctity and piety is functioning inside the campus for students to perform their spiritual rituals.
- Every day our class starts with Serenity prayer for the wellbeing of all livelihoods in the universe. All students and staff join irrespective of religion, position and portfolio for the same.
- Each and every function in MBCCET, whatever small or big it is, it starts with a prayer for invoking the presence of ultimate. This culture gives awareness that the human potential without the divine source is infinitesimal.
- MBCCET invites students and scholars/spiritual students from different countries and thereby our students get opportunity to interact with them so that diversified culture, tradition and spiritual nomenclature can be understood.
- Institution gives due importance for maintaining self-discipline of students and academic discipline of the college. MBCCET believes that only a well-disciplined individual will have the "can do" attitude and can excel in their professional career thus contributing much to the society and the mankind.
- College encourages to celebrate various religious and state festivals such as Onam and Christmas thus giving due importance to all religious sectors.
- College promotes 'Swastika',the National Level techno-cultural fest of MBCCET is a pride of ours. 'Thandava', the intra-departmental Arts Fest, encourages all students to participate and the diversified programs like technical, nontechnical, cultural events are conducted. The organizers always see to ensure that messages with values are disseminated to ponder upon ultimately.
- Scholarships worth two crore are awarded to meritorious students every year irrespective of cast, community and religion.
- The institution stands apart from all other colleges by setting the programme outcomes for making our students to grow into a technically qualified socially committed human being who can serve the society.

- The institution aims at instilling a sense of self-discipline and accountability among students and developing a respect for independent, ethical and right values.
- Subjects like professional ethics, environment engineering, air pollution etc. also help the students to be aware about human values, ethics and importance of environment around them.

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

APJAKTU publish academic calendar before the commencement of regular academics. A detailed academic calendar of the institution which includes all important dates of curricular, co-curricular and extra-curricular activities is prepared and gets approved by the academic council. In line with above, all programme offering departments prepare their academic calendar showing various department-level activities.

The institution has a standard Course Diary which comprises of Time Table, Syllabus & Course mapping, Course plan, Assignments & Tutorial details, Subject coverage, Attendance, Continuous Internal Evaluation details and Attainment. The POs and PSOs are derived from the Graduate Attributes and each faculty prepares COs of the respective subject and explain the same to the students in the first class itself. Before the commencement of the regular classes, all subject faculty members prepare Course Plan for their courses and submit for the approval of HoD. The faculty members strictly adhere to the approved course plan. The students in a class are divided into different groups and each group is assigned to a faculty during tutorial hours. The faculty members conduct special classes if there is a flaw in the course delivery. The college provides laboratory manuals for the smooth conduct of practicals. Apart from the course diary, the respective faculty maintains a course file for each course which contains the complete proof to substantiate the claims in the Course Diary.

A class committee with student representatives and faculty members is constituted for all classes. The committee meets at least twice during a semester. The suggestions and decisions of the committee are forwarded to the Principal by the Chairman for further action. Feedbacks from the students are collected periodically and necessary actions are taken to fine-tune the academic process. Furthermore, a course committee is constituted for the courses offered in two or more classes to see that the course is being delivered uniformly.

MBCCET follows a systematic Faculty Advisory System which supports the overall academic process such as mentoring, discipline, industrial visits, Add-on courses etc.

The student's academic progress is evaluated using various assessment tools like tests, assignments and tutorials. The institution follows Revised Blooms Taxonomy (RBT) for the evaluation. The results are reported to the parents through PTA meetings and personal messages. Remedial Sessions and Group Study Sessions are conducted for slow learners. The institution undergoes internal and external academic audits in every semester conducted by IQAC and University respectively to ensure the efficacy of the entire academic process. In addition to the prescribed curriculum, the college has the following strategized ways and means to strengthen the teaching-learning process:

- Well-established library facilities.
- Usage of ICT tools. Outcome-based teaching-learning.
- Technical events like TITs, Conferences, VAP and Project Expo to bridge the curriculum gaps.
- Encouraging students and faculty to complete MOOCs like NPTEL, Course Era. etc. Industrial Visit & Internships as better learning practices.
- FDP for capacity building effective teaching.

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)

The Academic Calendar provides the basic source of information and planner for the students, faculty members, support staff, administration, and management. The Core Committee members of the College prepare Academic Calendar by considering the prescribed guidelines and regarding the calendar provided by APJ Abdul Kalam Technological University. Academic Calendar forms the strong foundation of all academic activities and adheres to the vision and mission

of Mar Baselios Christian College of Engineering and Technology, Peermade. Publication of the Academic Calendar begins before the commencement of the academic session. The Coordinators take into consideration the feedback from students, teachers, alumni, parents, and other stakeholders while preparing the Academic calendar. It is placed to the college executive council through IQAC for final approval. The Academic Calendar has displayed on College Notice Board, website, and prospectus. The Academic Calendar provides the following details:

Working Days: The Academic Calendar indicates the annual working days, teaching days, admission schedule, series examinations conducted for all semesters in an academic year, university examination, and evaluation as per the guidelines of the affiliated University.

Curricular Activities: It covers the entire teaching and learning process with the teaching plan which includes a series of tests, assignments, regular conduct of class and course committee meetings which aims at the interaction of students and staff regarding discussions, suggestions, and decisions to improve academics and helps in the smooth conduct of class, Internal and external academic audit which evaluates the work and activities provided to students by staff and student attendance monitoring system. Students are provided with honors and minor degrees in addition and as a whole, it aims to provide an outcome-based education in the curriculum.

Co-curricular Activities: Students are provided with add on courses on various areas of specialization, project/seminar work, field studies, group presentations, technical invited talks provided by experienced professionals, alumni interactions in which alumni students were invited and will share their experience that really motivate the students, Webinars covering wide areas of specialization and remedial sessions which is additional coaching given to students to improve the academic performance qualitatively and quantitatively which are included in the calendar. In addition, placement activities are also added which focus on improving the communication skills, analytical skills thereby making the students capable of attending placement drives with confidence.

Extracurricular Activities: The Academic Calendar also

includes activities outside the formal classroom with social relevance. NSS activities like Observation days, celebration days of eminent personalities, and various social awareness programs were conducted. Sports activities are also provided to enhance students both physically and mentally.

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	**D. Any 1 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

37

File Description	Documents
Any additional information	[View File]
Minutes of relevant Academic Council/ BOS meetings	**No File Uploaded**
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)

0

File Description	Documents
Any additional information	[View File]
Brochure or any other document relating to Add on /Certificate programs	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	**No File Uploaded**

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

0

File Description	Documents
Any additional information	[View File]
Details of the students enrolled in Subjects related to certificate/Add-on programs	**No File Uploaded**

1.3 - Curriculum Enrichment

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

MBCCET is dedicated to foster a healthy environment for the students. It appears that the curriculum designed by the affiliating University does include many of the subjects which address the aforesaid cross-cutting issues. As an affiliated College, the MBCCET doesn't have much space in the

framing of the curriculum and syllabus. The institution takes initiative to conduct various programs under different cells & committees to address these issues. For example, there is hardly any course in the curriculum that upholds the necessity of gender equality.

Women Cell Activities:

In MBCCET under the banner of Women Cell, various programs such as seminars, invited talks, etc. are conducted for students and staff which ultimately focus on the importance of gender equality.

Academic Activities /Courses:

For Seminars, Design Projects and Final year projects in curriculum, as far as possible student groups are formed giving potential to gender equality. Few of the courses in curriculum to address environmental sustainability issues are:

- Sustainable Energy Process Environment,
- Health and Safety Environmental Engineering I & II
- Air Quality Management Municipal Solid Waste Management
- Responsible Engineering
- Environment Impact Assessment

The above courses in one way or the other help to address the cross-cutting issues of environmental sustainability giving potential to the role of engineers in society.

Following courses in the curriculum upholds the human values, professional ethics and awareness on social/interpersonal skills help students to cope up with the demands of everyday life giving importance to human values and empathy.

- Design Engineering
- Principles of Management
- Business Economics
- Responsible Engineering

Yoga and Meditation:

Yoga and Meditation classes are also conducted in the Institution to inculcate values, manage stress, impart empathy, and increase emotional quotient, thus becoming a

good human being in society.

Involvement of NSS Unit:

The institution also has a vibrant NSS unit which volunteers many issues of high importance for environmental sustainability like, Plastic waste eradication awareness program, Solid waste disposal, E-waste and its hazards, Plantation drives, etc.

Induction Program for First Years:

The sessions are conducted by the experts on topics like Human Values, Cyber Threats Awareness, Sensitization on Ragging and Anti Narcotic Attentiveness. ACM Chapter, IEEE-Power and Energy Society (PES) also has conducted programs on subjects that address these cross-cutting issues.

Green Initiatives:

MBCCET's commitment to a green environment is substantiated by the activities of the Eco Club which conducts green audits involving students and staff. With these initiatives, most of the cross-cutting issues are addressed through the courses in the curriculum or conducting programs outside the curriculum.

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

30

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

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

164

File Description	Documents
Any additional information	**No File Uploaded**
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	**A. All of the above**

File Description	Documents
URL for stakeholder feedback report	https://www.mbcpeermade.com/Add-on/Feedback%20Forms/37/2
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	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows	A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	https://www.mbcpeermade.com/Add-on/Feedback%20Forms/37/2

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

185

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

12

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

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

A well-laid-out mechanism is present for continuous monitoring and evaluation of the students. We have a blend of slow and advanced learners as the Engineering Institute is located in a rural area. The Institute always gives special care for improving the performance efficiency of slow learners. In the case of advanced learners, proper guidance is provided by the Institute members to attain higher levels of learning experience and improve leadership skills. Every year, a well-planned induction program is conducted to motivate newly admit and familiarize them with the university curriculum and the resources available at the institute.

Chief Faculty Advisor/Faculty Advisors (CFA/FA) identify the slow learners and advanced learners in every batch by conducting, internal exams, assignments, etc. CFA/FAs categorize advanced and slow learning students based on their academic performance. Students who secure marks below 50% are considered slow learners. For enhancing the performance of slow learners, remedial classes are conducted. In these sessions, slow learners are supported for solving previous year question papers and will be encouraged to do more tutorial problems. A remedial test will be conducted for assessing the improvement level of slow learners at the end of the special coaching.

Advanced learners are encouraged to attend knowledge developing events such as NPTEL courses, webinars, national-level workshops, technical competitions, national/international conferences, etc. Special placement training classes are provided for both advanced and slow learners to improve their performance in placement drives. Technical Invited Talks (TIT) by Industrial experts and

alumina are conducted for slow and advanced learners in order to bridge the gap between academia and the industry. Advanced learners are motivated to be a member of various professional bodies, which helps them to join various networks with eminent personalities and experts in the field.

Every year, a well-planned induction program is conducted to motivate newly admit and familiarize them with the university curriculum and the resources available at the institute.

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
678	58

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

The teachers act as a catalyst and students play a dynamic role in the learning process. Being an Affiliated college of KTU, our involvement in the design of curriculum and syllabus is minimal or null. However, Institute takes maximum measures to foster the students to be the most responsible citizens of our nation.

Teaching-learning methods adopted by the faculty members include lecture modes, interactive modes, project-based learning, computer-assisted learning, experiential learning, tutorial sessions, etc. The teaching-learning activities are made effective through illustration and special lectures. To acquire first-hand knowledge on the subjects and current practices, students are engaged in various activities rather than classroom lectures

Furthermore, the institution encourages students to participate in various technical events so that they can showcase their innovative ideas. Many students from different departments attended various technical events and demonstrated their ideas, which were well appreciated, and bagged prizes/funds from KSCSTE (Kerala State Council for Science, Technology, and Environment.)

Though the curriculum has a 'design project 'in one of the semesters, as a policy of the institution, we encourage students to come up with innovative design ideas which will address many societal issues.

In addition, we have a subject in the curriculum called design engineering, here the students are divided into heterogeneous groups, which comprises slow, average, and advanced learners. In the class brainstorming sessions, debates, etc. are conducted this will enable the students to enhance their interpersonal communication, presentation skills and at last, the students will demonstrate their ideas in front of the panel. In higher semester students have to undergo various phases of the project in their academics.

To inculcate the values and to address the various societal issues, awareness programs, plantation drives, etc. students are given the opportunity to associate with NSS units of our institution.

In laboratories, the experiments are conducted on a cycle basis. This will help to concrete their theoretical knowledge and we motivate the advanced learners to support the slow learners. The institution has installed Wi-Fi on the campus to support the educational activities of the inmates. Also in our curriculum, there is one subject named "Life Skill". This subject aims to improve the professional qualities among students, especially communication skills and leadership qualities.

Summer Internships are considered an important career stepping stone at MBC College of Engineering and Technology. Summer internships teach valuable on-the-job skills and provide excellent upgrading opportunities to the students.

In addition, we have very active student chapters for professional societies like IEEE, ISTE, and IEI. For each society, faculties are playing the role of chapter advisors

and monitoring student activities. Even in the middle of the covid pandemic, students are getting many opportunities to participate in various technical events and workshops through these professional societies.

In the teaching-learning process, for effective delivery, along with intensive ICT tools, Group Discussions, Debates, and Brainstorming sessions are conducted. This helps to enhance students' interpersonal communication and presentation skills. The pedagogical methods like Peer-to-Peer learning, model makings, scale-ups, critical pedagogy and role-plays are also conducted not only to facilitate a better understanding of the subjects but also to bring out the analytical skills and lateral thinking

MBCCET emphasizes project-based learning. We have a cell called CiTE, which is dedicated to innovations from the students. As part of this, every year project idea competitions named 'SPARK' are conducted. This program helps the students to come up with innovative ideas, which can be converted into live projects.

In our laboratories, the groups are formed and the experiments are conducted on a cycle basis. This will help to concrete their theoretical knowledge and we motivate the advanced learners to support the slow learners to follow peer-to-peer learning. The institution has installed Wi-Fi on the campus to support the educational activities of the inmates. Also in our curriculum, there is one subject named "Life Skill". This subject aims to improve the professional qualities among students, especially communication skills and leadership qualities.

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

Information and Communication Technology (ICT) tools are used

to explore, analyze, optimize and exchange information. Teachers are combining traditional methods with technology for efficient delivery of information. ICT enabled teaching uses Wi-Fi enabled class rooms with projector, E-learning materials. The institution adopts ICT enabled tools to enhance the teaching-learning process by using LCD projectors for Classes, seminars and workshops.

ICT can be provided to give students quick access to ideas and experiences, from a wide range of people, communities and cultures. Teaching and learning are activities that contribute to the improvement of student learning and it include use of ICT.

As the Covid pandemic took over the world, institution opted for online classroom teaching using zoom meetings and Google meet. All teachers shared necessary information needed for students in their respective Google Classroom. Series test, seminar and project evaluation were conducted online for assessing their learning process. Webinars, meetings were conducted online during this time.

Following are the best practices undertaken by the faculty members for improving teaching and learning experience:

- Google Classroom
- In addition to chalk and talk method, teachers use Power Point Presentations to expose students to learning.
- The students are also advised to use computer software packages for their projects.
- MOOC courses.

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

45

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

58

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	[View File](#)
Any additional information	**No File Uploaded**
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

6

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

382

File Description	Documents
Any additional information	**No File Uploaded**
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.

MBCCET follow a transparent and robust internal assessment process which is in line with the affiliating University instructions /decisions. Each student in any program and course is evaluated through continuous assessment process which includes series tests, seminar, project works, attendance etc.

The internal examination dates are frozen in the beginning of the semester in academic council meeting and is shown in the college academic calendar. The evaluation process bears such a transparency that the answer scripts are returned to the students for their verification and if any discrepancy students can easily approach the course faculty for clarification based on the scheme. Various committee involved in the whole process are internal examination committee which deals the complete conduct of the examination, department question paper scrutiny committee that constituted in the departments with HOD and senior staffs to ensure the standards of the question paper as pre revised blooms taxonomy. Internal marks finalization committee which is also constituted in each department to finalize the internal marks and to address the grievances if any.

MBCCET conducts two series tests of 40 marks each which will be later normalized to 20 marks for the final evaluation. Two assignments will be given for each course which is then together normalized to 10 marks for the internal evaluation.

Most of the courses the scheme followed is Internal assessment 50 marks (Series-1 and 2 , 20 marks each, Assignments 10 marks) and 100 makrs External end semester University exam. For 2019 scheme two series test are conducted with 50 marks each which will be normalized to 25, 15 marks for assignment and 10 marks for attendance.   For few subjects like engineering graphics, life skills etc. the scheme is internal marks 100 and external mark is 50. The internal marks 100 is finalized through internal series tests (40 Marks each for Series-1 and Series-2), Assignments (20 marks). If any students fail to attend any of the series tests, then he can appear for the retest to compensate the missed test. University prescribes a minimum of 45 % in internal assessment (2015 Scheme) and 40 %(2019 Scheme) and 75% attendance to be eligible to appear for end semester examination. The entire evaluation process is informed to the students in the first class itself by the Chief Faculty Advisors. The internal marks are published well before the final day of semester not only in department notice boards but also communicated through emails and class whatsApp groups and grievances if any will be addressed by the department committee. For practical classes the evaluation scheme is like internal marks 70 which include, continuous evaluation, viva, Records etc. and final examination 30 marks. For 2019 scheme, practical exam evaluation is like internal marks 75 and external marks 75 constituting to a total of 150.

 Once the internal marks are finalized with the concurrence of course faculty and internal finalization committee it is uploaded in the affiliating University portal duly approved by CFA, HOD and finally the principal and is deemed as the final which can't be altered once it is approved by all.

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 students are communicated about series tests through academic calendar at the starting of the semester. The answer papers are corrected and distributed to the students within

stipulated time from the conduction of the series test. The grievances raised in the series tests are solved through the exam cell. Those students who were not able to write the series exams under any medical claims were allowed to attend the remedial exams after giving the medical certificate after being verified by the CFA, HOD and finally sanctioned by principal.

The Covid pandemic happened during this academic year and teaching – learning process took on online mode. Internal Examinations were conducted in online mode using Google Classroom and Google meet. Students will be informed about dates of Internal examination through CFA/FA and time table will be published. Each subject faculty will upload question paper in Google Classroom at the start of exam. Students will be asked to join Google meet for supervision by respective faculty. The answer scripts are valued and marks will be displayed to students. If any grievences, respective subject staff will take necessary action to solve it. If any student is unable to write any exam due to unavoidable situations, will have to make a request to subject staff, CFA and HOD for conducting retest.

The students are allowed to claim for the internal mark and attendance if any mistakes are found. Students can raise grievances for attendance shortage and internal mark in the grievance cell and the required steps are taken. In this academic year all students were given attendance above 75 % duly informed by University.

File Description	Documents
Any additional information	[View File]()
Link for additional information	Nil

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.

Program Outcomes (POs) are the knowledge, competencies, and attitudes that students should have at the end of their individual engineering program's course. These are determined by NBA and are based on Graduate Attributes.

Program Specific Outcomes (PSOs) are statements describing what graduates of a particular engineering programme should be able to perform. PSOs are developed by the advisory group for each department, which includes representatives from all stakeholders, including alumni, parents, industry experts, faculty, and others. The PSO is finalised after the committee hears suggestions/feedback from stakeholders. If necessary, the PSOs may be revised or updated in the future once a committee meeting has been held.

The ensuing information and abilities that a student obtains at the end of each course are referred to as Course Outcomes (COs). It specifies the cognitive processes offered by a course. The course committee members discuss and generate the course outcomes, as well as how they relate to programme outcomes and program-specific outcomes. COs are created in the same way for laboratory classes.

For each course, MBCCET provides a course diary, as well as a mapping matrix showing COs mapped with POs and PSOs indicating the levels, which is generated by the faculty and entered in the course diary. POs, PSOs, COs, Course Plans, and Assignments are all included in the course diary. The CO-PO, PSO mapping, and other supplemental information were also used to assess attainment.

The POs, PSOs, and COs of MBCCET have been clearly stated and disseminated to students, teachers, and stakeholders.

1. On the official college website.
2. Syllabi and learning outcomes are kept in hard copy in the departments for simple reference.
3. As departmental bulletin boards.
4. A soft copy has been emailed to everyone.
5. In IQAC sessions, IQAC takes the initiative to highlight the relevance of learning outcomes.
6. In the first class, the Chief Faculty Advisors/Faculty Advisors teach the students about the Learning Outcomes, which are also discussed in class committee / course committee sessions.

7. **POs, as well as the institution's vision and mission, department'svision and mission, and other information, are shared with first-year students during their induction sessions.**
8. **In addition, faculty development programmes are held to raise knowledge about this.**
9. **Posted on the bulletin boards in class, Laboratories etc.**

File Description	Documents
Upload any additional information	**No File Uploaded**
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 program's POs are generated from the Graduate Attributes and clearly specified by NBA, with a total of 12 PO's. COs and PSOs are set by the Department Advisory Board or Committee, which has representation from all stakeholders. This Committed finalizes the COs and PSOs after discussing them at various levels and assessing input. Every course has a certain set of expected outcomes, which are finalized by the DAB after careful consideration of the Course Objectives. The course faculty thoroughly explains the Course Objectives, Course Outcomes, POs, evaluation patterns, and marking scheme to the students at the start of each semester.

The assessment methods and tools used for the evaluation attainment of POs, PSOs and COs are explained below.

For COs Assessment:Direct Assessment and Indirect Assessment are the two basic types of assessments. Internal assessments, such as internal tests, assignments/tutorials, seminars, projects, attendance, lab assignments, and so on, are used to evaluate students' performance in Direct Assessments, as well as external assessments, such as end-of-semester university examinations, project evaluations, and laboratory exams. Each CO will be mapped with POs and PSOs at first, with markers such as strong, medium, and low. Similarly, COs will be

assigned to each question on the internal test.

For each internal test, an internal evaluation data sheet is created with the marks received for each student per question as well as the CO connected with each question. Normalized marks for each CO are calculated when the DQAC committee assigns the necessary weightage to internal examinations and assignments/tutorials. After establishing a Benchmark and Target Levels, the Attainment Level is determined. After assigning equal weight to each CO university attainment level, a target level was calculated. The final CO attainment is derived after conducting a course exit survey, with varying weightings for internal, university exams, and exit survey.

For POs & PSOs Assessment:Direct and indirect assessments are also used to accomplish this. The average PO attainment is determined first in the Direct approach, which is a reflection of students' success in their internal/external evaluation, utilizing the already mapped CO-PO matrix and the CO attainments data. These strategies give significant proof of student learning by providing a sample of what students know and/or can do. Finally, data from indirect methods such as student feedback, exit surveys, alumni, parent feedback, and employer feedback are taken into account. Finally, the weighted sum of direct and indirect assessment is computed, and the achievement of PO/PSOs is assessed. The college IQAC usually assigns an 80 percent weighting to direct evaluation and a 20 percent weighting to indirect assessment.The data used to assess attainment levels are called attainment figures. The institute creates development plans depending on the degrees of achievement.

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

110

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	Nil

2.7 - Student Satisfaction Survey

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

https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria 2/2_7_SSS.pdf

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)

0

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	No File Uploaded
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

5

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	<u>View File</u>

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

0

File Description	Documents
List of research projects and funding details (Data Template)	<u>View File</u>
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 MBCCET has created an ecosystem for innovation by establishing two centres viz. Centre for innovative Technology and Entrepreneurship (CiTE) and Centre for Research initiatives in Science and Engineering (C-RiSE).

CiTE

The CiTE wishes to foster innovation driven entrepreneurship among the faculty and students through mentoring and training. The objectives of CiTE are to:

- **Promote the culture of innovation among the students of MBCCET.**

- **Develop new products and services, acquire patents and market the products.**
- **Engage research leading to introduction of innovative products.**
- **Facilitate venture capital funding.**

CiTE provides funding for innovative projects based on joint proposals from students and faculty members of the institution. Some of the innovative projects funded by CiTE are Multi-Purpose Automatic Crop Dryer, Ecofriendly Meeting Corner, Automatic Banana Chips Slicer, Automated Rubber Tapping Machine etc. CiTE has a practice of promoting innovative ideas among students by conducting idea competition called "SANKALPPAM 2021" and cash prize is awarded for the best innovative projects in each department.

The institution has established an Institution's Innovation Council (IIC) as per the norms of MHRD's Innovation cell. The Innovation & Entrepreneurship Development Cell of MBCCET is approved by Kerala Startup Mission (KSUM) and District Industries Centre (DIC), Government of Kerala. Our Institution is also empanelled under Pradhan Mantri Yuva Yojana scheme by Ministry of Skill Development & Entrepreneurship.

The institution consistently provides motivation, support and platform for students to showcase their skills and knowledge in various competitive technical events. Students are participating in numerous technical competitions at national and state levels like Smart India Hackathon, Young Innovators Programme by K-DISC, INNOVATE of KSCSTE, IEDC Summit by KSUM, TEKON by KSCSTE and APJAKTU etc. For preparation of the competition, facilities like internet, library, required infrastructure in terms of space and equipment have been provided.

C-RiSE

The C-RiSE coordinates all research activities of the institution and research based product development. The objectives of C-RiSE are to:

- Create an excellent educational environment through frontline researches and inter disciplinary research collaborations.
- Support funding for research projects and review the research proposals for utilizing external funding opportunity.
- Coordinate conferences, symposiums and workshops to promote research culture among the   stakeholders.
- Conduct cutting - edge researches to develop new academic and technological fields.
- Discover new fact-based principles and rules in natural phenomena to create new technologies
- Conduct researches that contribute to the development of human resources & the societal needs.

The communication and coordination works related to research and the dissemination of scientific and technical works are mainly looked after by the Research Advisory Committee (RAC). RAC is formulated with the Principal as the Chairman and the Dean (Academics) as the Convener. A dissemination system is maintained by the research coordinator whereby faculty members and students are informed of the following:

- Opportunities to respond to calls for papers
- Announcements on applying for research grants
- External calls to attend research seminars and Potential collaborative research projects

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

1

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

0

File Description	Documents
URL to the research page on HEI website	Nil
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	No File Uploaded

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

14

File Description	Documents
Any additional information	No File Uploaded
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

0

File Description	Documents
Any additional information	**No File Uploaded**
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

The MBCCET gives importance to social outreach activities to help the neighborhood and to instill social responsibilities among students.

National Service Scheme

The institution has an active NSS unit (Unit No. 180) under Directorate of Technical Education, Government of Kerala through which different extension activities are planned for each year. The unithas adopted Pothupara village as beneficiary for its activities. Our regular social service activities include environmental protection, energy saving, waste management, gender equality, healthcare support, awareness programs, educational initiatives and livelihood opportunities. The various programs organized by NSS unit are as follows.

- **Republic day celebration**
- **Thanal**
- **Saved Dreams : Provide online class facility to students**
- **National Energy Conservation Day**
- **NSS Day celebration**
- **World mental health day**
- **Gandhi Jayanti celebration**
- **MBC Mask making challenge**
- **MBC Blood donors registery**
- **Un locked ceativity at lockdown**
- **Short film and awarness video**

Pradhan Mantri Awaas Yojana - Gramin (PMAY-G)

Pradhan Mantri Gramin Awaas Yojana is a social welfare flagship programme, created by the Indian Government, to provide housing for the rural poor in India. The faculty members and students of the Department of Civil Engineering has given technical support for planning, design and estimation of low cost house as per PMAY-G scheme to Kattapana Block Panchayat. MBCCET received Merit Award from Rural Development Department, Kerala for the excellent service.

Pradhan Mantri Gram Sadak Yojana (PMGSY)

Pradhan Mantri Gram Sadak Yojana, was launched by the Govt. of India to provide connectivity to unconnected habitations as part of a poverty reduction strategy. The Department of Civil Engineering of MBCCET has given technical support for planning, design and estimation of road connectivity between Pallikkunnu and Peermade taluk hospital (PMGSY scheme) to Peermade Panchayat as per the request from local community. Later, the proposal was revised in line with Nava Kerala Mission (Rebuild Kerala), launched by the Government of Kerala to enhance the lives of the people in the State.

Kerala Flood Rehabilitation Activities

Faculty members and students of MBCCET have actively participated in the flood related rehabilitation activities in response to the big calamity affected to the state. Faculty members of the institution acted as technical advisors for Care Home Project, Idukki (Flood Relief Project, Co-operative Department, and Government of Kerala) and Life Mission, Idukki for the project Surekshitha Koodorukkum Keralam (Flood Relief Project, Azhutha and Kattapana Block Panchayat).

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

0

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	No File Uploaded

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

11

File Description	Documents
Reports of the event organized	No File Uploaded
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

413

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

0

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

5

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 college campus is situated in 30.5 Acres of Land with a total build-up of 37395 Sq.m which inhabits well-furnished Offices & Departments, ICT enabled Classrooms & Seminar Halls, Conference Hall, well-equipped Labs, Central Library, Central Computing Facility, Auditorium, Hostels, Quarters, etc. commissioned as per the norms of the statutory bodies. The campus also consists of Football, Basketball, Volleyball, and badminton courts along with a 400-meter track.

The Institution has an adequate computational facility on the campus and students can undergo online courses like SWAYAM Also the college is an approved National Test Centre (NTC) and Test Practice Centre (TPC) of the National Testing Agency (NTA) and through which the registered candidates can take practices for online exams like JEE, RRB, Bank test, etc.

- Class Rooms, Tutorial Halls, Seminar Halls

The institution has 22 classrooms, 5 seminar halls, and 5 tutorial rooms, a drawing hall, Mini auditorium, and open auditorium in the Academic Block and all the classrooms and seminar halls are ICT enabled with Projectors, Sound, and LAN/Wi-Fi facility in order to ensure the effective teaching-learning process.

- Laboratories There are 34 laboratories in the

institution including one Research Lab. All the labs are equipped in order to fulfill the academic requirements as well as research and consultancy purposes beyond the curriculum. The labs are installed in Laboratory Block, Workshop Block, Mechanical Block, and Academic Block. All the labs are well furnished and equipped with high configuration machines, equipment, and software.

- Computing Equipment

The institution has 10 computer labs with 420 systems for the teaching-learning process. In addition, there are 40 computers in various departments and offices. All the systems are connected through a local area network and the backbone of the network is done using Optical Fiber Cable. Round-the-clock internet facilities are provided in all the systems using a 100 MBPS 1:1 Leased line internet connectivity. Also, controller-based Wi-Fi facilities are available in the campus, hostels, and quarters with 96 Wi-Fi access points. The internet traffic is monitored, controlled, and secured using Sophos XG230 UTM (Unified Threat Management system) which has network protection, anti-virus, anti-spam, web filtering, content filtering, etc. All the students and staff have individual credentials to log in to the system and dedicated storage space is provided in the file server. The storage servers are RAID -5 configured in order to prevent data loss due to hardware failure.

Facilities for the teaching-learning process.

Sl No

Facility

Total Nos

Total Area (m2)

1

Class Rooms

24

1586.62

2

Tutorial Rooms

5

451.92

3

Laboratories

33

4160.79

4

Research Lab

1

38.53

5

Central Library

1

407.53

6

Department Library

5

147.93

7

Central Computing Facility

1

155.33

8

Seminar Hall

5

588.58

9

Conference Hall

1

90.44

10

Drawing Hall

1

392.18

11

Open Auditorium

1

548.52

12

Mini Auditorium

1

232.05

13

Faculty Room

10

579.88

14

Health Centre

1

26.32

15

Data Centre

1

33.25

16

Exam Cell

2

184.46

Additional Document

Sl No

Building Name

Details

Area (m2)

1

Main Block

Contains the Offices, Academic Classrooms, Library, Central Computing facility etc

11913.78

2

Laboratory Block

Consists of Labs under Electronics & Communication Engineering, Computer Science & Engineering, Electrical & Electronics Engineering

3120

3

Workshop Block

Contains Electrical Engineering Labs, Civil Engineering Labs and Mechanical Engineering Workshops

1262

4

Mechanical Block

Contains Mechanical Engineering Labs and Civil Engineering Labs

2092

5

Men's Hostel –I

Hostel facility for the 1st year and 4th year Gents students

3302.7

6

Men's Hostel – II

Hostel facility for the 2nd year and 3rd year Gents students

3196.5

7

Ladies' Hostel – I

Hostel facility for the 1st year and 4th year Ladies students

3302.7

8

Ladies' Hostel – II

Hostel facility for the 2nd year and 3rd year Ladies students

3686.29

9

Principal Quarters

Accommodation facility for the Principal & Family

184.62

10

Guest House-I

Accommodation facility for the Guests with family

120.00

11

Guest House –II

Accommodation facility for Guests (Gents)

61.5

12

Family Staff Quarters

Accommodation facility for the Staff and Families

537

13

Staff Quarters- I

Accommodation for the staff of the college

840

14

Staff Quarters-II

Accommodation for the staff of the college

126

15

Worship Centre

Worship facility for the students and staff of the college

267.15

16

Canteen

Canteen facility for the staff and students of the college

502

17

Security posts

Main Gate and ladies Hostel Security Post

11

18

Generator Room

Placed 2 nos of 160 KVA diesel generator for providing power backup to the college

26

19

Water Filter Room

Installed the centralized water purifier for providing filtered water to the campus

18.9

Total

34570.14

In addition to the above, the college provides a number of common facilities

Sl No

Facility

Details

1

Leased line Internet facilities

The college has a 100 MBPS 1:1 Leased Line internet connectivity for the use of staff and students

2

Wi-Fi facilities

The college provided 24 hours Wi-Fi facilities for the students and staff of the college in the entire campus, hostels, and quarters with 100 no's of controller based access points

3

ICT facilities

All the classrooms and seminar halls in the college is ICT enabled with Projector, Sound and Internet/ Wi-Fi facility.

4

EPABX Facilities

All the offices, departments, labs, hostels, and security posts are connected through the EPABX phone system with individual extension nos.

5

Centre

Centre facility to maintain the Storage Servers, Software servers, Switches, Firewalls, etc

6

Canteen & Cafeteria Facilities

The college has a mini cafeteria inside the Academic Block and a canteen in the campus

7

Sports Facilities

The college provided adequate facilities for the sports, indoor and outdoor games

8

Fitness Centre

A well-equipped Gym facility is provided on the campus for the Boys and Girls separately

9

Computational facilities

Computational facilities are provided to the staff and students in 10 numbers of labs including Central Computing Facilities

10

Health Centre

A full-time nursing facility with a 4-bed capacity is available on the campus. Also, a first-aid-kit is provided in all the Departments and Labs.

11

Rainwater harvesting

There are 10 Rain Water Harvesting units with a total capacity of 10 lakh litres.

12

Centralized Water Purification System

Provides filtered drinking water to the entire campus

13

Yoga and Meditation Centre

Dedicated space is provided for the staff and students in order to practice Yoga and Meditation.

14

Co-operative Society

Provides various study materials, stationery items, etc in an affordable cost.

15

Reprographic Facilities

In order to provide various reprographic facilities such as Photostat printing, spiral binding, hard binding, lamination etc

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

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

The institution encourages and supports extracurricular activities in order to enrich the talents of the students such as sports, games, meditation, music, dance, quizzes, technical events, etc. As most of the students are staying in the college hostels, they can utilize the facilities during the morning and evening timing on a regular basis.

Various sports facilities such as Cricket, Football, Basketball, Volleyball, Handball, Table Tennis, Athletics, Chess, and Badminton, etc. are provided for the students to ensure the focus of the institute in providing extra-curricular activities to both students and staff and the details of the facilities are listed below:

Sl. No

Name

No of Courts

Area

Year of

Establishment

Outdoor Sports & Games facilities

1

Play Ground

1

90 x 120 m

2001

2

Basket Ball court

1

28 x 15 m

2008

3

Volley Ball court

1

18 x 9 m

2005

4

Cricket Nets

1

3.66 x 3.05 m

2016

5

Football Field

1

110 x 65 m

2001

6

Cricket Field

1

110 x 55m

2001

7

Handball Field

1

40 x 20 m

2001

8

400 Meter Track

1

1 x 400 m

2001

Indoor Sports & Games facilities

1

Indoor Badminton court

4

 13.4 x 6.1 m

2008

2

Table Tennis

2

2.74 x1.5 m

2005

3

Carroms & Chess

4

6.3 x 5.0 m

2001

Gymnasium

1

Gym (Men)

1

16 x 10 m

2009

2

Health club (Women)

2

6 x 4 m

2018

Yoga Centre

1.

Meditation Room

1

6.3 x 5.88 m

2015

Gymnasium:

The equipment available in the Gymnasium are listed below

- Weight lifting
- Dumbbell sets
- Pull-up bars
- Squat stations
- Bench Press
- Leg Press
- Push-up stands
- Orbotrect
- AB King Pro

Yoga & Meditation Room

A dedicated facility is provided to practice yoga and meditation for the students and staff of the institution. It is a calm and quiet area with a great ambiance and wide windows. Yoga and meditation are practiced regularly by the students and staff and Yoga day are being celebrated every year by the students and staff of the college.

Cultural Activities

The institution has provided facilities to the students for cultural activities. The college has a musical drum set and 2 sets of Public addressing systems dedicated to the practice of the students. They can utilize the Seminar Halls, Mini Auditorium, and the Open Auditorium for various events. College Arts Day "Thandava" is being celebrated every year along with a number of competitions and the students can perform various cultural programs, theme shows, musical bands, etc. A National Level Intercollegiate Technical cum Cultural competition "Swastika" is held in the institution every year for two days. Students from all over India

participated in the various Technical and Cultural competitions conducted for the same. Cash awards and certificates are distributed to the winners of every event. Fully decorated and closed stage along with special light & sound effects and LED walls are arranged during the Arts Day and Technical Fest days.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.mbcpeermade.com/Resourses/Physical-Education/5

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

27

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.mbcpeermade.com/Resourses/ICT-Facilities/29
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)

249.188

File Description	Documents
Upload any additional information	[View File](#)
Upload audited utilization statements	[View File](#)
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)

Response:

**Name of ILMS software   -
Campus Management System**

**Nature of automation (fully or partially)   - Fully
Automated**

**Version
        - 2.2**

**Year of Automation   -
2013**

**The library of the institution is fully automated using the
software Campus Management System version 2.2 and all the
library operations such as acquisition, circulation,
cataloging, etc are processed through the software system
only.**

**All the library functions are fully integrated with Barcode
and RFID. Entire books in the library are barcode labeled and
the Identity cards of the staff and students are RF-based as
well as Bar Code labeled ID cards. Both are integrated with
the Campus Management System library software. There are
three barcode readers and two RF-ID readers in the library
which makes the library transactions like an issue, return,
etc very fast, convenient, and error-free for the users.**

**Automated Gate Entry system is available in the library.
Students and staff have to swipe their ID cards during their**

entry and exit in the library. Various reports such as daily usage reports, user wise reports, department wise reports, etc can be taken by the library staff.

Online Public Access Catalogue (OPAC) is also available in the library. Using this facility, students and staff of the college can search all the details of the books like availability, due dates, number of copies, etc. by using Author Name, Title, Accession Number and keywords, etc. The entire details are accessible from anywhere through the internet.

Users can view their book transaction details such as books in hand, each book's due date, current fine amount, etc through their login page. They can also view their entire book history of previous years. Also, the library usage of any user can be viewed by the authorities.

Library staff can take various reports like transaction reports, user-wise reports, book reports, book usage reports, statistics reports, etc within the software with custom attributes.

Most of the E-resources like E-books, Online Journals, Previous University Question papers, NPTEL videos, etc. can be accessed in any system or mobile device through WiFi or LAN within the campus.

A digital library with 10 computer systems is also provided to the users to access the e-resources such as e-journals, e-books, NPTEL lectures, etc. A separate register is maintained for monitoring the usage of the same. The support and supervision of the library staff will be available for the digital library users throughout the time.

Name of ILMS Software	Version	Year	Nature of Automation
MBC Campus Management	2.2	2020-21	Fully

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional Information	https://www.mbcpeermade.com/Resourses/Library/4

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)

10.04

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

| 19 | |

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

- **System The institution updates about 30 to 50 systems every year from the existing outdated configuration systems to the configuration required for the future usage of the Lab/s.**
- **Softwares: - The institution has a valid Microsoft Campus Agreement license which will be renewed every year. Hence all the updates of most of the Microsoft products are available on the campus. Also, the institution uses open source software which will be updated frequently. On every semester break, the systems will be fully formatted and reinstalled using the latest releases of software updates.The software used in the Labs is updated frequently according to the curriculum requirements. The software used in the office and Departments such as Tally ERP, Campus Management Software, etc is updated as per the requirements**
- **Internet & Wifi There are 97 Wi-Fi access points with dual bandwidth support (2.4 GHz and 5 GHZ) connected to a single Wi-Fi Controller unit. The Wi-Fi access points are installed within the academic blocks as well as in the Hostels and Quarters. 100 MBPS 1:1 Leased Line internet connectivity provides round a clock fast browsing environment to the students and staff of the college. The details of the WiFi access points are given below**

- **Sl No**

    Block

    No of access points

1

Main Block

20

2

Staff Quarters

6

3

Men's Hostel-I

19

4

Men's Hostel-II

18

5

Ladies' Hostel-I

18

6

Ladies' Hostel-II

15

7

Principal Quarters

1

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.mbcpeermade.com/Resourses/IT-and-ITES-Facilities/73

4.3.2 - Number of Computers

360

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)

38.53

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

Maintenance

The campus maintenance is done by several committees depending on the requirements of the institution. The committees and their roles are as given below:

- **Building Committee**
    - **The committee analyses the infrastructural requirements of the buildings of the institution and finalizes the works to a selected firm from the quotations received.**
- **Purchase Committee**
    - **The equipment required for the maintenance, up-gradation, or setting up of the laboratories, departments, office, hostels, etc are processed and the purchase order is issued after analyzing the quotation**
- **Library Council**

This committee collects the book requirement details from all the departments and classes and will submit the proposal for the same.

- **Computational Facilities Committee**

The requirements/suggestions of the staff and students of the college regarding the IT infrastructure are analyzed and processed.

- **Sports Advisory Committee All the suggestions and**

requirements related to sports, indoor and outdoor games are processed by this committee.

- Canteen Committee

The committee analyzes the complaints suggestions and requirements regarding canteen and recommends the remedial actions to the authorities.

- Bus and Transportation Committee

The committee ensures a safe and comfortable transportation facility for the users. The committee recommends remedies to the authorities for the complaints/suggestions received.

- Green Protocol Committee/ Eco club

The committee gives instructions and suggestions to reduce plastic disposables and to alternate them with reusable things. Also, the committee gives a set of measures to implement in the campus, hostels, canteen, and various functions to make the non-biodegradable wastes to a minimum in the campus.

Annual Maintenance Contract

Annual Maintenance Contract is made available for the computers, UPS, and Water purifiers of the college.

Civil & Electrical maintenance

The Civil & Electrical maintenance works are carried out by the Project and Maintenance Department of the college. Various manpower like Masons, Electricians, Plumbers, Carpenters, and Casual labors are available for the execution of works.

IT & ITES maintenance

This department handles the installation and maintenance of all the Computers, Servers, Wifi, networks, Printers, Scanners, EPABX, CCTV, Software, UPSs, Projectors, etc on the campus.

Laboratory Maintenance

The maintenance of the laboratory equipment is processed by the Lab-in-Charges and the technical staff of the laboratories.

Transport maintenance

The minor transport maintenance works are done by the in-house service personnel and the major complaints are outsourced to the external agencies through the proper channel.

Campus Maintenance

The campus maintenance such as cleaning, beautification, and gardening, etc of the college is done by the 14 housekeeping staff and 6 casual laborers under the supervision of the Project and Maintenance Department.

Procedure for the maintenance works of the college.

- Any staff or student can register a complaint with the concerned section.
- Once a complaint is registered, the section head assigns staff to inspect the same and rectify the problem.
- For minor complaints, the in-house staff themselves fixes the problems immediately and close the complaint.
- For items under warranty/AMC, the complaint is registered and the details are recorded for necessary follow-ups.
- For the remaining cases, the request letter along with the service/item estimates are submitted by the HOD/Authorities to the Principal for getting sanction from the Management.
- Once the request is sanctioned, the work order is processed immediately by the concerned department
- While the complaint is fully rectified, the final bills are submitted along with the signature of the HOD/authorities and close the complaint.

Utilization of infrastructure

- The institution utilizes the entire infrastructure and facilities to its maximum by the students and staff to fulfill their curricular, co-curricular, and extracurricular requirements as well as by outsourcing

the same in various manners.

- Various remedial classes, online training programs, technical talks, seminars, paper presentations, etc are conducted frequently in the institution for the students, staff, and also external participants.
- The laboratories are utilized by the students and staff to enrich their technical knowledge and to do project works. Several Hands-on Training sessions are conducted in various labs with internal and external participants.
- The library is open from 8:00 AM to 6:00 PM and can carry out library transactions throughout the time. Also round the clock access of e-resources is provided to the users within the campus.
- The sports facility can be utilized from Morning 5:30 AM to 7.30 A.M and Evening 4.00 P.M to 6:30 PM. Various intercollegiate tournaments for Cricket, Football, and Basketball are conducted in the college.
- The Central Computing Facilities are accessible from 8:50 AM to 6:00 PM and 24×7 Internet and Wifi facilities are provided. Computational facilities are utilized to conduct various online examinations like GATE, JEE, Railway Exams, Bank Exams, etc, and for attending mock exams. The college is an approved test center of the National Testing Agency (NTA), Tata Consultancy Services (TCS), NSEIT, etc.
- Several programs from external agencies for the internal and external participants were conducted in the college Open Auditorium, Mini Auditorium, seminar halls, etc.
- As the campus is well maintained and lush green, it is utilized for the cinema and serial shootings during holidays and off times.

Procedure for Utilization of Infrastructure for External Users

- A request letter with a detailed plan of usage of infrastructure with date and time of access, places of access, additional facilities to be provided by the institution, manpower provided by the institution, finance details, etc has to be submitted to the Principal and Bursar.
- The request is forwarded to the concerned sections for a detailed report along with the remarks and

recommendations

- **The request along with the report is submitted to the Management for the approval of the infrastructure access and financial details.**
- **Once the request is approved, an agreement or MoU is signed by the institution and the external party.**
- **After the event, the concerned department verifies the infrastructure and other item's conditions and gives usage/damage reports along with an estimate of items consumed/damaged if applicable.**
- **The final bill will be settled in the college as per the agreement/MoU signed by both parties.**

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

189

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	[View File](#)
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)	[View File](#)

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

392

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	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_5/5_1/5%20_1_3_c.pdf
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

59

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

59

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution 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	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	View File

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

104

File Description	Documents
Self-attested list of students placed	View File
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

8

File Description	Documents
Upload supporting data for student/alumni	View File
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

6

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

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.

5

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at uni versity/state/national/internati onal 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)

The statute of the affiliating University (APJAKTU) emphasis the requirement of an active student's council in all the affiliated colleges. A dynamic College Union through its activities ensures the development of students' personalities, organizational skills, and leadership qualities through various interactive programs. Furthermore, the college union has a considerable role in the activities of the college through the participatory democratic process. Besides, the college union plays an impressive part in the activities of the college in various ways. MBCCET has an extremely powerful and venturesome College Union established right from its inception. The tenure of the college union is one academic year and college union elections are being conducted in a democratic way every year as per the University norms. The mode of election is categorically in parliamentary mode. Class representatives are elected by the students in each class and an Executive committee is constituted by these elected class representatives. The election is conducted under the supervision of Returning Officer and the supporting election officers appointed by the Principal. Lack of consensus, if exists, in the election

process is solved through the secret ballot system.

All the elected class representatives constitute the students' Council. The Executive Committee of the College Council consists of College Union Chairperson, Vice-Chairperson (reserved for lady students), General Secretary, Lady Representatives, Sports Secretary, University Union Councillors, Student Editor, and Post Graduate Representatives. In MBCCET all the co-curricular and extra-curricular activities are conceived and conducted by the active involvement of the student council. The union is responsible for all the major technical, cultural, literary, and sports activities organized in the college. The Students Council functions under the guidance of a senior faculty, who will also act as a mentor for the Council.

In MBCCET each & every co-curricular and extra-curricular activity is conducted by the dynamic contribution of the students' council.

The significant activities of the Student' Council include:

- Organizing different festivals like Onam, Christmas, Women's day, Teachers day, etc.
- Organizing events like National Level Intercollegiate Techno-Cultural contests (Swastika), Sports day (Druva), and Arts day(Thandava).
- Publishing College Magazine by the students uniting their imaginative articulations.

All the above events are conducted exclusively by the student council under the guidance of the staff advisors.

Students' welfare Committee:

Students Welfare Committee is constituted in the college in order to address the general grievances of the students. Selected students from each year/branch constitute the committee. By addressing the issues of the students joining in hands with the support of faculty, ensures a foolproof atmosphere and a conducive environment for the students.

College Sports Council:

College Sports Council is constituted with the representation of students who have an affinity towards sports / excelled in

sports. The College sports council is guided by the Sports Secretary, who is happened to be a senior faculty & Physical director of the college. The College sports council conducts various sports activities like annual sports day, coaching for students conducting tournaments within the campus, and also gives proper guidance for inter-college sports competition.

Professional bodies committee

Professional bodies are an important committee in any engineering college in order to bridge industry-academia gaps and also to make aware students of the latest trends in the field of engineering. Students chapters of professional bodies are very active in MBCCET and conduct various technical programs every year. IEEE, CSI, ASME, ICI, IE, etc play their role with a great sense of appreciation for the benefit of students.

Career Guidance and Placement cell. (CGPC)

Placement activities of the MBCCET are spearheaded by the career guidance & Placement Cell. CGPC functions under the leadership of Dean - Placements & corporate relations and working under him Placement Manager & Asst. Placement manager. With the help of external experts programs like career guidance, coaching for reasoning ability, Mock Interviews, Training for placements, etc. are being conducted very often.

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_5/5_1/5_3_2.pdf
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

1

File Description	Documents
Report of the event	View File
Upload any additional information	View File
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

Alumni of MBCCET are the backbone in all means and they play a vital role in the overall development of the institution as well. The college has strong and active networks of alumni spread over many countries. One of the main objectives of the alumni association is to support the college vision and to strengthen the ties between alumni, the college, and the community. MBCCET has a registered alumni association, named Mar Baselios Christian College of Engineering & Technology Alumni Association (MBCCETAA) bearing Registration Number: IDK/TC/174/2019, registered under Travancore Cochin Literary Scientific Charitable Societies Registration Act 1955. Office bearers of the Alumni Executive Committee are elected/nominated as per the bye-laws of the Alumni Association. Alumni Association meetings are held every year. Future plans and actions are discussed in the yearly meetings. Alumni Executive Members' meetings are held three to four times a year. The Annual Alumni meet of the previous academic year was held on 20/12/2020. From 2018, as directed by the College Alumni Association, apart from the Annual alumni meet, department alumni meet are also being conducted to strengthen the alumni activities/contributions in the respective department.

MBCCETAA is live and stays connected via Facebook, WhatsApp, Instagram, LinkedIn, etc, where the current status, current trends in the market, and job potentials are shared. The alumni association also plays a vital role in mentoring, motivating, and sharing knowledge with their juniors. Many of

our alumni are placed in the different organizations at thumbing portfolios in India and Abroad, which gives great privilege and pride to our Institution. Our alumni are remarkably contributing to social works and also encouraging current students to do many appreciable activities.

Involvements of alumni are instrumental in organizing various Technical Invited Talks (TITs), Motivational Talks, Seminars, Workshops, and Career Guidance Classes for their juniors. The institution is organizing different activities by inviting alumni whose involvement is beneficial and also rejuvenates the teaching-learning process. Alumni association contributes through financial and non-financial means.

A few of the other areas wherein substantial contributions were received are as follows:

- Financial assistance (Student scholarship) worth rupees 1.6 lakhs was given in the last academic year
- Support to conduct campus drives for placements
- Discussions/seminars on entrepreneurship opportunities
- Contributions to the library in the form of books
- Sharing their corporate experience and motivating the students to bridge the gap between academia and industry
- Apprising the current trends and future scopes in the area
- Conducting alumni interaction sessions
- Internship Opportunities
- Promoting events of the institution
- Supporting Institute Social Responsibilities

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria 5/5 1/alumni.pdf
Upload any additional information	View File

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

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

VISION

An Engineering Institute with global quality to groom competent engineers equipped to address the changing needs of society.

MISSION

Our efforts are dedicated for developing a learner centric education environment to: Provide value-based technical learning

- Practise real world problem solving
- Foster team work in engineering design
- Inspire innovations and R&D

The institute Vision statement is defined to enable students to become competent professionals with social commitment. The statement also focuses on enhancement of quality of engineers to meet the standards expected by the job market globally. The idea of "social change through economic progress and economic progress through educating youth of the rural area" is also assimilated during the formulation of the vision.

The governance of the Institution ensures the proper planning and implementation of academic and administrative deeds to comply with institute's vision and mission statements.

Management and Governing Board: Mar Baselios Christian College of Engineering and Technology, Peermade is owned and managed by Malankara Orthodox Syrian Church (MOSC), which is a Religious Public Trust. The President of the Trust is the

Supreme Head of MOSC His Holiness Baselios Marthoma Paulose II. The other 17 members of Governing board consists of Educationalists, Entrepreneurs, Advocates, Priests etc. who are elected/nominated from the 2.5 million members of MOSC spread all across the world.

The Principal of the college is a special invitee member of Governing Board meetings conducted once in every six months. The confluent approach of the Management, Principal and Faculty implement the plans in order to uphold the vision and mission of the college.

The policy decisions taken by the management are communicated to the academic and administrative heads through Principal for implementation. Academic Council and IQAC set benchmark for academic, extra and co-curricular activities to ensure quality. The institution strictly adheres to the academic calendar to accomplish its objectives.

Principal constitutes various committees for managing and co-ordinating activities like Professional societies, Eco/Green club, NSS, Grievance Redressal, Anti- Ragging, Alumni Association, Research, Placement Cell, CiTE, C-RiSE, Transportation, Women Cell etc. The Chairpersons/Co-ordinators of various committees are engaged in assigning, delegating, co-ordinating and communicating the responsibilities to the members as per the established system. The Heads of Departments are in-charge of executing the policies of the institution.

The management encourages staff to undergo Faculty Development Programmes regularly for improving the quality of teaching. Parent - Teacher meetings are conducted at regular intervals to discuss the overall progress of the students.

The college has students from all communities, denominations and religions thereby bringing unity in diversity in our college campus. Industry – Institute interaction is strengthened by undertaking applied research / development oriented projects by students and faculty members. As a part of leadership enhancement, the institution encourages students' participation in the association and professional society activities. Students are encouraged to organize conferences, workshops, technical festivals, sports,seminars,

industrial visits etc.

Above activities initiated by the college aims to fulfill the stated Vision and Mission of the institution ultimately.

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/About-Us/Vision,-Mission-AnD-Core-Values
Upload any additional information	View File

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

The College strongly believes in the culture of participative management, which involves President, Governing board, Principal, Bursar, HoDs, Staff, Students and Faculty. The powers are decentralized and everyone from the top to bottom level is accountable for their duties. All academic and administrative activities are decentralized. The participatory role of the management encourages and sustains the involvement of the college staff, which is necessary for the efficient and effective running of the college. Management is always open to have discussion with the Principal and HoDs which in turn encourages the involvement of the staff for quality improvement.

A classical case study event, which depicts the decentralization and participatory management in MBCCET is described below:

INTER COLLEGE TECHNO CULTURAL FEST- SWASTIKA –2019

SWASTIKA - Techno-Cultural fest of MBC, is conducted normally in March/April annually. The various committees and its members comprising of Principal, Bursar, Deans, HoDs, Staff members and students, facilitate the smooth functioning of the events.

1. For preliminary approval, Office Bearers of the Student

Council approaches the Principal through Staff Advisor.

2. Principal gives preliminary sanction of the proposal with the recommendations of the academic council after presenting it in the academic council meeting where Staff Advisor of Students council is also an invited member. An executive committee is constituted by ensuring faculty representation from each department.

3. Student council is intimated about the approval by staff advisor and they are asked to submit a proposal, including tentative dates, main co-ordinators, list of events and budget.

4. Staff advisor along with executive committee members meet the main co-ordinators for approving the proposal and forward the same to the Principal for sanction.

5. After approval, the proposal is sent to the management for final consent. Director finalises the financial contributions from management.

6. The executive committee and staff advisor meet the main co-ordinators to discuss about the budget plan and the source of accumulation of fund. Main Co-ordinators are asked to select heads and members under various sub-committees for Publicity & Invitation, Sponsorship, Guest Relation, Food and Refreshment, Reception, Certificate and Printing, Finance, Time Management, Department Events, Stage & Venue from students. A team of faculty and staff members are there in each sub-committee to support the students.

7. The advisory committee decides eminent personalities as guest of honours.

8. Each committee conducts meetings with respective groups of students and faculty for reviewing the progress of the assigned tasks.

9. Minimum two review meetings are conducted with all members of the organizing team before the fest.

10. Cash prizes and certificates are awarded to the winners & participants. The same is intimated to their parent institution for availing duty leave and activity points.

11. After successful completion of the fest, a feedback meeting with all committee members are scheduled for experience sharing and suggestions for improvement.

File Description	Documents
Paste link for additional information	http://mbcpeermade.com/Co-Curricular/Tech-Fest/24
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

MBCCET has strategic plan in place for next 5 years starting from 2017 for developing the institution into a premier one, sticking on the Vision and Mission. The strategic plan mainly focusses on following directions:

1. Enriching the curriculum with different accreditation

2. Research, Innovation, Consultancy and Entrepreneurship.

3. Learning resources, Industry – Institute interaction, Infrastructure.

4. Green initiatives & Social responsibilities.

MBCCET started practising Outcome Based Education(OBE) immediately after the strategic plan is formulated. POs and PSOs were finalized in consultation with stakeholders, whereas COs were finalized by course faculty and subject experts. Curriculum gaps were identified and filled through various initiatives. College aims to be accredited by NAAC and NBA.

Research and Innovation are the other areas wherein college concentrates. C-RiSE (Centre for Research Initiatives in Science and Engineering) is established in the college. C-RiSE supports for innovative research, fund mobilization etc. Understanding the potential of consultancy and to address societal issue water quality lab along with an IoT (Internet of Things) research lab is included in the plan.

Learning resources are another area wherein MBCCET focusses. For accomplishing this, Web learning center, Library expansion, MOOCs and NPTEL courses are envisaged. A four-storied Knowledge Tower with a built up area of approximately 25000 sq ft. with Modern Library, Incubation Centers, Convention Centre and Guest accommodations are included in the plan.

To ensure the development of the society, many community development and societal programs are included in the strategic plan. This will help to maintain the environmental sustainability, cleanliness conscious etc.

One activity successfully implemented based on the Strategic Plan:

 MBCCET is located in one of the backward districts of Kerala viz. Idukki. From the previous history, it was observed that the number of students joining for engineering education from Idukki was very low when comparing with the other districts. In order to motivate students joinging for engineering courses, science talent tests were conducted in various schools. Science Club of MBCCET conducts the Einstein Science Talent Test. This aims to enhance the number of students shwoing interest in engineering education from Idukki. MBCCET talent test works on the principle that societal growth by providing special attention to nearby society. The purpose of the test is to identify the talented students and nurture their talents in science.

Einstein Science Talent Test is a diagonal test, which helps students to assess their overall learning ability and educational performance. MBCCET has been conducting this test successfully for past three years. Each year good number of students participated in the tests and it was noticed that number of students attending the program has been increased and subsequently the students opting professional course also got increased. The winners are provided with certificates, cash prizes and trophies.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.mbcpeermade.com/UserFiles/MBC/file/About_Us/Administration/6_2_1_Strategic_plan.pdf
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.

The institution has a clear organizational hierarchy and structure to support decision making process that is consistent with its purposes. "T3- Trust, Truth and Transparency" being the motto of the institution, the organizational structure allows MBCCET to involve stakeholders in various Committees/ Boards. Continuous and meticulous efforts are ensured to maintain quality in both academic and administrative levels.

Governing board gives strategic directions keeping in view the long term goals, vision and mission of the institution. Principal in consultation with the management prepares an action plan which is approved by the college council. Teaching Learning process is monitored by Head of Departments with the support of senior faculty. The implementation of various activities covered under the quality policy is recorded in prescribed quality formats and maintained properly. These are reviewed by two internal audits and one external audit per semester.Different committees are formed for the effective functioning by appointing senior faculty and Head of various departments.

Recruitment of staff is carried out well before the academic process. Teaching faculty members are recruited as per AICTE rules and regulations. Faculty selection committee consist of Governing board members, Principal and respective HoDs. MBCCET follows well formulated service rules and copy of the same is made available to all staff.

Performance of teaching as well as non-teaching staff is evaluated every year. For teaching faculty members,

Performance Based Appraisal System with Key Performance Indicators is followed.

Different Grievance Redressal Cells are formed to address the grievances of the students and staff. All these committtes are formed with senior faculty members duly appointed by the Principal. MBCCET grievance redressal process is so transparent that any student/staff can approach the concerned cells for reporting their grievances. Enquiry is conducted as per the rules and adequate measures are taken.

Few different bodies/committee in nutshell supports functioning of the Institution are:

- Governing Board
- Academic Council
- IQAC
- DQAC / PAC
- Disciplinary action committee
- College Council
- Internal Complaint Committee
- Grievance Cell
- Admission Committees
- Welfare Committees
- Parent Teacher Association
- Class /Course Committees
- Anti-Ragging Committee
- SC/ST Cell

File Description	Documents
Paste link for additional information	https://mbcpeermade.com/About-Us/Management/Governing-Board
Link to Organogram of the institution webpage	https://www.mbcpeermade.com/Organization-Diagram
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 inter faces	View File
Any additional information	**No File Uploaded**
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

The institution with residential campus provides efficient and effective welfare measures for the teaching and non-teaching staff. This is one of our highlights.

Welfare Measures

- **Medical insurance for staff**
- **Co-operative society under society registration act with subsidized charge**
- **Providing free bachelor quarters**
- **Family quarters are provided with subsidized charge**
- **Self-appraisal system for promotion and other benefits**
- **Incentives for publication of papers/research articles in SCI/SCOPUS indexed journals**
- **Rewards for excellent results**
- **Bonus for major regional festival**
- **EPF and ESI for non-teaching staff**
- **Advance salary in case of emergency situation**
- **Provide maternity leave with allowance**
- **30 days vacation leave for faculty members**
- **Provision of college vehicle for medical emergency**
- **Sick room with a dedicated staff nurse**
- **Resident tutors are provided with free accommodation and food with subsidized charge**
- **Provides transportation facilities with subsidized charge**
- **Support for education of the children of staff in the**

- **group institutions**
- **Dedicated cabins and Wi-Fi facilities to perform duties effectively**
- **Recreational facilities like badminton, basketball, table tennis, football and cricket with financial support**
- **Staff club with financial aid for annual activities**

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/Resourses/Staff-Welfare/32
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

0

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

0

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	**No File Uploaded**
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

12

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

Systematic assessment of employee's performance is carried out to interpret the potential of staff, by the college management based on their performance and contribution in

teaching, research, team work, arranging curricular & co-curricular activities and publication works. The transparent self-appraisal system encourages the staff to excel and put forth their optimal effort which is one among the strengths of the institution. Based on the self-appraisal form submitted by the faculty, the management and principal decide the promotion and other benefits.

The following are the benchmarks for performance appraisal for teaching staff.

Teaching , Learning & Evaluation related Activities

- Students feedback on faculty
- Innovative teaching methods followed by the faculty
- Result percentages in the courses handled by the faculty
- Level of attainment in the course handled by the faculty
- Incorporation of ICT tools in the subject delivery
- Adherence to academic calendar and course plan
- Communication and presentation skills
- Understanding and Implementation of OBE Involvement in Mentoring process.

Co-Curricular, Extension & Professional Development activities.

- Participation of faculty in extracurricular activities
- Number of extension activities undertaken by the faculty
- Professional Institution memberships
- Number of Technical Talks, Seminar and Conferences conducted
- Pursuing Higher Studies
- Contributions to enhance campus recruitment
- Contributions to enhance MoU
- Participation in other Administrative bodies
- Number of Papers presented in Conferences
- Timely completion of the responsibilities
- Association with NSS and community activities
- Contribution related to accreditation process

Research publications and Academic related contributions

- Number of papers published in Journal
- Number of FDPs attended
- Number of invited lectures of the faculty in outside colleges
- Certification courses completed like MOOC, NPTEL
- Funded Projects received from Government / non Govt. organisations
- Number of Consultancy projects undertaken
- Amount of Revenue accumulated through consultancy projects
- Number of students guided, novelty of the project
- Number of books published
- Patents awarded
- Number of awards/recognitions received
- Monograms, Chapters, research articles published

The following are the benchmarks for performance appraisal non-teaching staff.

- Enthusiasm
- Sense of responsibility Punctuality
- Behaviour with superiors Integrity
- Character
- Selfstarting attitude
- Overall performance
- Representation in college various cells and committees
- Effective Handling of the labs
- HODs Comments & recommendations
- Attitude of teamwork
- Behavior towards students
- Association with NSS and community activities
- Assistance in consultancy and project works

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

Management of the College has appointed two firms of Chartered Accountants, one for conducting internal audit and the other for external and final auditing.

Each year's budget showing anticipated receipts and payments is presented before the managing committee of the trust for their consideration and approval. The college used to manage the funds in tune with the approved budget.

Internal audit by Chartered Accountants entrusted for the purpose is conducted twice in a year i.e. at the end of each half year. All receipts and payments including cash and bank transactions are verified by internal auditors. The college is using Tally ERP9 software for its accounting and the internal auditors used to verify this also for assuring correctness of the accounts. Any corrections advised or suggestions made by the auditors will be considered and remedial measures taken accordingly with the approval of competent higher authorities.

External financial audit is entrusted with another firm of Chartered Accountants. After completing internal audit and closing of accounts for the financial year, statutory auditors/external auditors conduct audit for the year. After thorough audit with respect to receipts, vouchers, bank transactions, cash transactions, bank reconciliation statements and other relevant documents, the statutory auditors prepare Receipts and payments Accounts, Income and Expenditure Accounts and Balance Sheet for each financial year. These statements along with audit Report is placed before the Supreme Administrative body of the Religious Public Trust for their detailed verification and approval. Any query or question will be answered and doubts if any be cleared for the best of their satisfaction. All the audited statements are properly filed and maintained. Correctness and transparency in accounting is maintained by the college.

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)

0

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Any additional information	**No File Uploaded**
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

Strategies for mobilization of funds

The college is left with no other alternative for mobilization of its resources. Fees collected from students admitted under Management, NRI and Government quota, strictly adhering to the guidelines issued by Government, is the only source for raising funds. This is utilized for meeting the revenue expenses of the college including scholarships awarded to the students who had secured higher grades in their academics. Funds raised through PTA is utilized for the welfare activities only and at no time used for managing the day to day affairs of the college.

Optimal utilization of resources

- **The salary of teaching and non teaching staff and maintenance cost of the institution is met from the fund mobilized from students' fee.**
- **A part of the fund is utilized for maintaining laboratories and for the purchase of lab equipment, software etc.**
- **The Governing body takes the decision for infrastructure development and fund is provided by management.**
- **Orientation and training programmes for students and staff are conducted regularly.**
- **Each department is allotted fund to organize National Conferences.**
- **If a department needs any requirement, they submit the estimate and request to the Principal through respective Head of the department. After due scrutiny, the Governing board gives approval to such proposals.**
- **Enough financial support is given to promote sports and games.**
- **Inter collegiate techno cultural programmes are organized annually that develop organizing and leadership qualities of our students.**
- **The institution is very keen to maintain greenery and cleanliness in the campus and fund is allotted as per the requirement.**

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

Yes, the college do have a well-functioning IQAC cell constituted in the year 2017. All the academic systems like Faculty Development Programmes, Conferences, Research oriented Activities, Academic Calendar, Lesson Plan, Tutorials, facilitating slow learners, Encouraging advance learners etc will be done under the strict guidance of IQAC. In order to maintain the efficiency Department Quality Assurance cell is constituted across every department under IQAC. Periodic meetings with DQAC coordinators and Head of

the departments helps to run IQAC in a successful manner in the college.

Example 1: Quality assurance for the Internal Exams and Assignments.

The following measures are adopted for ensuring the quality of exams.

- All the questions are framed based on blooms taxonomy.
- Al the questions were mapped against their corresponding Course outcomes and Program outcomes.
- A review committee is working in each department under the DQAC cell for the scrutiny of the question papers of Internal exams and Assignments, the corrections made by the experts in DQAC should be made before the submission.
- At least 30 percentage of the questions will be of application type which is largely focus on above average students.

Example 2: Advancement in the field of Research

A very well efficient Research Lab is running in the institution under Centre for Research Initiatives in Science and Engineering(C-RiSE).

The following measures are adopted to improve the research culture

- Conducted National level conferences across department in collaboration with good quality publications. (UGC approved).
- Constituted a Research Lab focusing on research based on IoT and Machine learning, with good infrastructure providing IOT related hardware devices and Systems with

good configuration associated with Machine learning tools.

- The research and innovations in above said areas helped the students in participation of various events like Smart India Hackathon and various Contests done by different agencies.
- Done subscription of agencies like 'Grammarly' for improving the quality of publication

File Description	Documents
Paste link for additional information	https://www.mbcpeermade.com/IQAC/About-IQAC/26
Upload any additional information	No File Uploaded

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

- Institute follows Student Centric approach by assessing the knowledge and skills of the students and evaluating the Outcomes using necessary tools.

- The Institution review the outcomes of its teaching process at periodic intervals and has been modifying its policies and methodologies by with periodic Academic Audits. Separate auditing team of well experienced faculties are allotted for every department for the periodic tracking of portion coverage, attendance, internal assessments etc.
- External audit by the experts allotted from the university is also undertaken.
- Internal exams are conducted in periodic manner and analyze slow learners and fast learners and take appropriate remedial actions such as remedial classes, Group discussions, Night Classes etc. for slow learners and encourage fast learners to participate more in online certification courses, paper publications, and research oriented activities.
- The student's quality is constantly monitored by encouraging them in the participation of various National and Zonal events by both government and non-government initiatives, like Smart India Hackathon, Idea Competitions by Kerala Startup Mission etc.

- **Department Quality Assurance Cell is constituted in every department with branch. Head of the Department, senior faculty member of the department, representatives of management, industry, alumni, students, PTA and academic experts are the various stakeholders.**

- **For improving the quality of the students, value added programmes, soft skill training etc. are conducted dealing with the happening in the current scenario which helps them in applying their knowledge in Projects research and placement.**
- **To make awareness regarding the latest technologies among the faculties institutional level short term training programmes, Faculty development programmes etc. are conducted in every academic year by every department which indirectly helps the students improve their learning outcomes.**

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

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)	**B. Any 3 of the above**

File Description	Documents
Paste web link of Annual reports of Institution	https://www.mbcpeermade.com/IQAC/IQAC-Reports/36
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
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

It is evident from all its actions that MBCCET gives due importance for the safety and security with gender sensitivity, Students of MBCCET, irrespective of their gender, are given equal opportunities to grow and develop into able, responsible citizens of tomorrow. Gender awareness classes are organised under the active initiatives of the Women Cell. The students and staff irrespective of their gender in the college work together with mutual respect and cordial relationship while organising various events.

Main initiatives taken are:

Safety and Security: -

Women Cell 'VAJJRA'-The College has an exclusive Women Cell called 'VAJJRA' for sensitizing both students and staff about gender. The Women Cell organizes different programs like Women's safety & health, self-defence techniques for safety and interactive sessions on gender issues.Committees like Anti-Ragging, Grievance Redressal, Student Welfare, Internal Complaint, Staff Welfare have been constituted to monitor the problems, if any, and provide corrective measures.

But due to lockdown issues we were unable to organize gender equity programs during the last year.

Security Staff: Round the clock security is provided in the campus to ensure the safety & security of students and staff. Details of the visitors and vehicles entering the campus are noted in the security hub.

Residential Campus: Around 70% students are residing in the campus and many of the staff including Principal is campus residents. This adds up the safety conscious of the students especially girls.

Transportation:

MBCCET offer comfortable conveyance for students and staff from different locations and routes, as the college is located in a hilly area. students and staff utilize this facility to commute.

Sports and fitness:

 Facility is provided for the physical fitness of the students and staff.

Health Centre:

 A health centre with the assistance of a qualified nurse is functioning inside the campus for basic first aid and emergency medical assistance. In case, further check-up is required, vehicle with driver assistance is provided to take them to nearest hospital. Sanitary napkins are kept for distribution in co-operative society working in the campus. Napkins are disposed using incinerators. In addition to the above facilities, CCTV surveillance in hostels and campus, fire extinguishers inside the buildings, separate indoor courts for girls and boys, assistance of wardens in hostels are provided.

Counselling:

A Counselling Centre under the guidance of Student Advisor is functioning in the campus. This helps to alleviate mental strains and to excel in academics. An effective mentoring system in which a faculty is entrusted to maximum of 20 students is implemented. Yoga & Meditation classes are conducted for the students.

Common Room:

Rest rooms for students are arranged in the main building. Common rest room is provided to lady staff for their leisure and comfort. Separate toilets for boys and girls are provided on every floor of the academic and lab blocks.

File Description	Documents
Annual gender sensitization action plan	It is evident from all its actions that MBCCET gives due importance for the safety and security with gender sensitivity, Students of MBCCET, irrespective of their gender, are given equal opportunities to grow and develop into able, responsible citizens of tomorrow. Gender awareness classes are organised under the active initiatives of the Women Cell. The students and staff irrespective of their gender in the college work together with mutual respect and cordial relationship while organising various events. Annual gender sensitization plan is as follows: ? Health and Hygiene: Interactive sessions with invited doctors on Teenage Health and Personal Hygiene for a healthy life. ? Awareness programmes on Women Rights and Gender equality: To conduct classes related to gender, women's rights and women empowerment for students by the departmental faculty members, NSS, and the Women's Cell. To conduct counselling sessions for the girl students on a regular manner by the lady faculty members of the above mentioned Committees. ? Mentoring system: Provide professional counselling to the students. From the beginning, the new students are to provide a mentor (who will be a teacher of her department). Weekly meetings between the mentor and mentee are to be conducted for them to smoothen the burden of study and to ease the stress in the new atmosphere. ?

	Entrepreneurship opportunities: Training on arts and crafts using waste materials. ? Cultural activities: To ensure equal rights and participations of girl's students by all means without any sign of gender discrimination in regular cultural activities, sports, NSS, performing arts etc. Conduct activities like Blood donation camp, AIDS awareness, female foeticide, dealing with COVID-19 pandemic, etc in association with NSS unit of our college.
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	1.Safety and Security 2.Counselling 3.Common Room It is evident from all its actions that MBCCET gives due importance for the safety and security with gender sensitivity, Students of MBCCET, irrespective of their gender, are given equal opportunities to grow and develop into able, responsible citizens of tomorrow. Gender awareness classes are organised under the active initiatives of the Women Cell. The students and staff irrespective of their gender in the college work together with mutual respect and cordial relationship while organising various events. Main initiatives taken are: Safety and Security: - Women Cell 'VAJJRA'-The College has an exclusive Women Cell called 'VAJJRA' for sensitizing both students and staff about gender. The Women Cell organizes different programs like Women's safety & health, self-defence techniques for safety and interactive sessions on gender issues. Committees like Anti-Ragging, Grievance Redressal, Student Welfare, Internal Complaint, Staff Welfare have been constituted to monitor the problems, if any, and provide corrective measures. Security Staff: Round the clock security is

provided in the campus to ensure the safety & security of students and staff. Details of the visitors and vehicles entering the campus are noted in the security hub. Residential Campus: Around 70% students are residing in the campus and many of the staff including Principal is campus residents. This adds up the safety conscious of the students especially girls. Transportation: MBCCET offer comfortable conveyance for students and staff from different locations and routes, as the college is located in a hilly area. students and staff utilize this facility to commute. Sports and fitness: Facility is provided for the physical fitness of the students and staff. Health Centre: A health centre with the assistance of a qualified nurse is functioning inside the campus for basic first aid and emergency medical assistance. In case, further check-up is required, vehicle with driver assistance is provided to take them to nearest hospital. Sanitary napkins are kept for distribution in co-operative society working in the campus. Napkins are disposed using incinerators. In addition to the above facilities, CCTV surveillance in hostels and campus, fire extinguishers inside the buildings, separate indoor courts for girls and boys, assistance of wardens in hostels are provided. Counselling: A Counselling Centre under the guidance of Student Advisor is functioning in the campus. This helps to alleviate mental strains and to excel in academics. An effective mentoring system in which a faculty is entrusted to maximum of 20 students is implemented. Yoga & Meditation classes are conducted for the students. Common Room: Rest rooms for students are arranged in the main building. Common

	rest room is provided to lady staff for their leisure and comfort. Separate toilets for boys and girls are provided on every floor of the academic and lab blocks.
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

Solid waste management:

 Separate bins for biodegradable, non-biodegradable and other solid waste are kept at different locations in the campus.

 A biogas plant is installed at men's hostel for the treatment of food waste. The food waste generated in the quarters are converted into manure in pot compost or pipe compost.

 Incinerators are used for the disposal of sanitary pad waste generated in the ladies hostel. Sign boards are displayed throughout the campus for encouraging waste reduction.

The student units like NSS and Eco-Club are doing many awareness programs in the campus related to waste management.

Liquid waste management:

All waste water lines from toilets, bathrooms and kitchens are connected to the septic tank. The acidic waste generated in the laboratory are neutralized and disposed.

E-waste management:

The students and staff of various departments are instructed to hand over the ewaste including non-working computers, mobile phones, calculators, CD players, printers and other peripherals to the technical staff of the laboratory.

To substantiate the vision of reducing the wastes, MBCCET started implementing e-governance and ICT support in all administrative and academic jobs with limited paper usage.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	**No File Uploaded**
Geo tagged photographs of the facilities	<u>View File</u>

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	<u>View File</u>
Any other relevant information	**No File Uploaded**

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. Restricted entry of automobiles	**B. Any 3 of the above**

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	E. None of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
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	C. Any 2 of the above

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).

 MBCCET always encourages the students to organise and participate in different programmes organised by college, inter-college, university to make them sensitize towards cultural, regional, linguistic, communal and socio economic diversities.

Onam Celebration

Onam is celebrated in MBCCET with great enthusiasm. College union and departments organizes various programmes and games which ensures the unity among students.

Christmas Celebration

Christmas is observed as a religious and cultural celebration in the College like the millions of people in the world.

MBCCET celebrates as an opportunity to inculcate values like loving everyone, caring the needy, and sharing with family and society. College organises different programmes for staffs and students like Carol singing competition, Cake cutting etc.

THANDAVA (Annual Cultural event) & SWASTIKA (Annual Technical Fest)

The college organises annual cultural meet THANDAVA in every year to promote cultural harmony among students and staffs. Also MBCCET organises technical fest SWASTIKA which acts as a platform for students to showcase their innovative ideas, compete with their peers, and have a feel of the 'real world'.

Due to this pandemic situation we were not able to conduct the above activities in offline mode.

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

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

Independence and Republic Day

Independence and Republic Days are celebrated in MBCCET with great enthusiasm and high patriotic zeal. Principal/Chief guest hoists the flag in the presence of students and staff. To pay respect and to

commemorate the great leaders all salute the flag and recite the National Anthem. To spread the message and importance of the day, Principal / Chief Guest addresses the gathering.

Teacher's Day Celebrations.

Teacher's Day is celebrated on 5th September every year in memory of birth anniversary of Dr. Sarvepalli Radhakhrishnan, a philosopher and a great teacher. In MBCCET we celebrate teacher's day with enthusiasm and respect. Quiz programs, elocutions are conducted along with games. A clear message on the importance of Teacher's in moulding the students as better human being is conveyed.

Gandhi Jayanthi

Mahatma Gandhi birth anniversary (October 2nd) is generally celebrated by organizing programs such as Green Campus and Clean campus activity campaign. Gandhiji's message of nonviolence and its importance is conveyed to the students.

Water & Environment Day Celebrations

These celebrations are done on 22nd March of every year. Awareness is created among the students and staff members of MBCCET about the importance of water. Poster and banners are displayed inside the campus for the awareness. Poster competitions, Essay writing, and Marathons are also conducted to make the celebration colourful.

National Service Scheme Day

National Service Scheme unit of the college organizes NSS day on 24th September to make the NSS volunteers aware of their duties and responsibilities. NSS help the students to develop the feeling of oneness, empathy, compassion and sensitiveness to the needs of the less fortunate.

National Unity Day

College celebrate 'Rashtriya Ekta Diwas' on October 31st paying a respect to the veteran leader Sardar Vallabhai Patel

. **The participants recite the pledge and display the posters regarding the same. It reaffirms inherent strength of our nation and help the citizens to think about threats to unity of the country.**

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://www.mbcpeermade.com/UserFiles/MBC/file/Cocurricular/NSS/NSS_Activity_Report.pdf
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 for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized	**D. Any 1 of the above**

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various 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

The following programmes were celebrated in MBCCET in association with our NSS unit.

Independence and Republic Day

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commemorate the great leaders all salute the flag and recite the National Anthem. To spread the message and importance of the day, Principal / Chief Guest addresses the gathering.

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Gandhi Jayanthi

Mahatma Gandhi birth anniversary (October 2nd) is generally celebrated by organizing programs such as Green Campus and Clean campus activity campaign. Gandhiji's message of nonviolence and its importance is conveyed to the students.

Engineers' Day

 As a tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya, MBCCET celebrates Engineer's Day on September 15 every year. As part of the celebration, the college organizes various events for students in association with the Institution of Engineers (India) and cash prizes are distributed.

Yoga Day

MBCCET celebrates International Yoga day on 21st June of every year. Yoga and Heartfulness Meditation sessions are conducted on this day. `Importance of Yoga and meditation for better holistic life is described by the trainers.

Water & Environment Day Celebrations

These celebrations are done on 22nd March of every year. Awareness is created among the students and staff members of MBCCET about the importance of water. Poster and banners are displayed inside the campus for the awareness. Poster competitions, Essay writing, and Marathons are also conducted to make the celebration colourful.

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National Science Day

Paying respect to Indian Physicist Sir C.V. Raman, College celebrate National Science day on 28th February by conducting invited technical talks and give a motivation to the students of the college with scientific minds and also to make them aware of the significance of science in daily lives.

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.

BEST PRACTICE 1

Title of the Practice: Evolving holistic development of engineers by inculcating innovation culture through experiment and experience.

BEST PRACTICE 2

Title of the Practice:

Catering the needs of the slow learners, we develop a culture of inclusive learning, nurturing companionship of advanced learners under the guided association of faculty.

BEST PRACTICE 3

Title of the Practice: Mar Baselios Christian college Semester-wise Academic planning. (MBCSAP)

File Description	Documents
Best practices in the Institutional website	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practices.pdf
Any other relevant information	https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practice_1.pdf,https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practice_2.pdf, https://www.mbcpeermade.com/UserFiles/MBC/file/NAAC/Criteria_7/7_2_1/Best_Practice_3.pdf

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

MBCCET stands out in embarking spirituality integrating academics, healthy relationships, moral values and leadership skills through which individuals will be able to articulate their purpose. The management of MBCCET is a Religious Public trust (www.mosc.in) with nearly 2.5 million people as its members. The spiritual leader of this trust the President of the Governing Board & other members are elected or nominated in every five years through a democratic approach which makes MBCCET exclusively distinct from other professional and technical institutions. The management also runs 250 other Govt. Aided and Self Financing type educational institutions in the state of Kerala. The various social service activities of the Religious Trust have greatly influenced the development of this institution.

MBCCET strongly believes that the goal of education is not to create mere graduates of younger generation only capable of understanding the language of machines. Education should help us to attain samskara-spiritual culture and human values also. Being an institution run by spiritual trust, the flavour and fanning of spiritual fragrance can be well visible in its actions. The institution believes that spirituality plays an important role in any education to mould the young students in a tender stage itself to become better human beings useful for the society and the nation. The institution focuses on providing high quality education

by establishing effective teaching-learning practices with a deep unification of academics and spiritual values. There is a chapel functioning inside the campus that facilitates the students for their spiritual well beings and classes that inculcate human values and moral esteem are conducted here. The vision statement of the institution focuses on producing quality engineers who can meet the international standards with social commitment. The notion of "social change through economic progress and economic progress through educating youth of the rural area" have been used to shape the foundation of MBCCET. The academic and administrative system of MBCCET imparts technical education to create globally competent professionals making them realize the Economy of the nation by making them to learn Engineering with love for Environment and Nature.

One of the beautiful things which are to be highlighted is the locational advantage, pollution free atmosphere, greenery and natural beauty. This wonderful atmosphere and climate helps the students to go deep in their spiritual side which inturn helps their academics also.

While MBCCET give due importance to spirituality and ethical values in academics, the other initiatives the Institution put up to sink with academics are scribbled below:

- The primary objective of the institution is to provide superior knowledge in technology and giving our students a bright future laden with ethics and human values. The institution also aims at reviving the learning skills with a focus on demands of future, vitalizing teaching learning process, human values, and functional relationship with all the stakeholders for the holistic development of the individual and society.
- To increase the emotional Quotient of the students and to balance their inner and outer mental state, Heartfulness Meditation is offered with the help of authorized trained practitioners.
- Orientation programs which emphasizes on human values, professional ethics, self-respect, spirituality in education etc are organized.
- A serene, placid chapel oozing out sanctity and piety is functioning inside the campus for students to perform their spiritual rituals.
- Every day our class starts with Serenity prayer for the wellbeing of all livelihoods in the universe. All

students and staff join irrespective of religion, position and portfolio for the same.

- Each and every function in MBCCET, whatever small or big it is, it starts with a prayer for invoking the presence of ultimate. This culture gives awareness that the human potential without the divine source is infinitesimal.

- MBCCET invites students and scholars/spiritual students from different countries and thereby our students get opportunity to interact with them so that diversified culture, tradition and spiritual nomenclature can be understood.

- Institution gives due importance for maintaining self-discipline of students and academic discipline of the college. MBCCET believes that only a well-disciplined individual will have the "can do" attitude and can excel in their professional career thus contributing much to the society and the mankind.

- College encourages to celebrate various religious and state festivals such as Onam and Christmas thus giving due importance to all religious sectors.

- College promotes 'Swastika',the National Level techno-cultural fest of MBCCET is a pride of ours. 'Thandava', the intra-departmental Arts Fest, encourages all students to participate and the diversified programs like technical, nontechnical, cultural events are conducted. The organizers always see to ensure that messages with values are disseminated to ponder upon ultimately.

- Scholarships worth two crore are awarded to meritorious students every year irrespective of cast, community and religion.

- The institution stands apart from all other colleges by setting the programme outcomes for making our students to grow into a technically qualified socially committed human being who can serve the society.

- The institution aims at instilling a sense of self-discipline and accountability among students and developing a respect for independent, ethical and right values.

- Subjects like professional ethics, environment engineering, air pollution etc. also help the students to be aware about human values, ethics and importance of environment around them.

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

MBCCET has always been striving towards excellence. The plan for the next academic year is summarized as follows:

1. We are planning to include more internships, workshops and add-on courses in the curriculum to improve the quality of students and make them more competent to the present world. The programmes are planned well in advance and are published through the academic calendar issued in the beginning of the semester.

2. The teaching learning process will be worked out proficiently to achieve maximum results and attainment.

3. To enhance the innovations and research in our college we have C-RiSe and CiTe which will enable the students to participate in the internal and external competitions related to the engineering fields. There are several extension activities planned which will help the students to escalate themselves in various fields of Engineering.

4. The necessary infrastructure is consistently maintained to improve the atmosphere of learning and smooth functioning of the systems of the college.

5. The students are encouraged to participate in more placement trainings, placement activities and motivational lectures will be given to invigorate their instincts for higher studies.

6. The college sets a strategic plan to improve the grade of the institution to a higher level. More faculty development programmes are planned to be organized to upgrade the quality of faculty of the college.

7. The college is providing a green environment and a serene climate to exalt the mind and body to a make MBCCET, Peermade perfect educational habitat.