



YEARLY STATUS REPORT - 2022-2023

Part A

Data of the Institution

1.Name of the Institution

**Mar Baselios College of
Engineering and Technology**

• Name of the Head of the institution

Dr. Abraham T Mathew

• Designation

Principal

• Does the institution function from its own
campus?

Yes

• Phone No. of the Principal

0471-2545868

• Alternate phone No.

0471-2545869

• Mobile No. (Principal)

8281145869

• Registered e-mail ID (Principal)

mbcet@mbcet.org

• Address

**Mar Ivanios Vidyanar Nalanchira,
Thiruvananthapuram**

• City/Town

Thiruvananthapuram

• State/UT

Kerala

• Pin Code

695015

2.Institutional status

• Autonomous Status (Provide the date of
conferment of Autonomy)

15/07/2020

• Type of Institution

Co-education

• Location

Urban

- Financial Status **Self-financing**
- Name of the IQAC Co-ordinator/Director **Dr. M.J.Jayashree**
- Phone No. **0471-2545868**
- Mobile No: **9349338747**
- IQAC e-mail ID **iqac@mbcet.ac.in**

3.Website address (Web link of the AQAR (Previous Academic Year)) <https://mbcet.ac.in/wp-content/uploads/2023/03/AQAR-2021-2022-Accepted.pdf>

4.Was the Academic Calendar prepared for that year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <https://mbcet.ac.in/academic-calendar/>

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.13	2016	05/11/2016	31/12/2025

6.Date of Establishment of IQAC **07/04/2015**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Nil	Nil	Nil	Nil	Nil

8.Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

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

- Were the minutes of IQAC meeting(s) and **Yes**

compliance to the decisions taken
uploaded on the institutional website?

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

10. Did IQAC receive funding from any funding agency to support its activities during the year? **No**

- If yes, mention the amount

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

Submitted the KSHEC (Kerala State Higher Education Council) Survey 2022 of IT Infrastructure facilities on 15-8-2022. Also Submitted the details of IIC (Institute Innovation Council) activities in the MHRD portal which in turn will be reflected for Atal Ranking of Institutions on Innovation Achievements (ARIIA2022). ARIIA data was submitted on 30th September 2022. Also submitted details for The National Institutional Ranking Framework (NIRF) on 12th Jan 2023. As a part of acting as a nodal agency of the Institution for coordinating quality-related activities, IQAC verified the seven-Faculty Development Programmes (FDPs) conducted by the various departments. Prepared the Annual Quality Assurance Report 2021-2022 (AQAR) of the HEI based on the quality parameters / assessment criteria developed by NAAC in the prescribed format and was approved by IQAC and submitted on 17th Dec 2022. Conducted Internal and External Academic and Administrative Audits and submitted the reports to University and UGC. NBA Internal Audits were conducted from 10th October 2022 to 22nd October 2022. NBA. Peer team visit was on 28th , 29th and 30th October 2022. The exit meeting was on 30th October 2022. Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes for the year 2022-2023 were initiated during May 2023 .

12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Enable 25% to 50% of the Faculty to attend the NPTEL/SWAYAM MOOC Course and get certified. Top Performers among them will be appreciated.	Faculty have been incentivised to attend the MOOC courses. More than 25% of the faculty have been certified.
Conduct new recruitment and also the Career Advancement related processes for the Faculty and Staff.	New recruitment and career advancement procedures have been completed.
Secure the approval for starting new B.Tech and M.Tech Programmes and start the Programmes.	New B.Tech and M.Tech Programmes have started accepting students after receiving approval.
Secure NBA Accreditation for all Programmes with higher score.	NBA Accreditation for all Programmes have been secured with higher score.
Establish one Industry supported Laboratory in the advanced Technology area like AI, IoT, ML, etc.	Laboratory established and training ongoing for the industry supported lab in AI.
Develop a Research Laboratory in Artificial Intelligence and Machine Learning.	Process Initiated for developing Research Laboratory in Artificial Intelligence and Machine Learning
Establish a Skill Development Laboratory in the area of Electric Vehicles and related Technologies with Industry support.	Established an industry supported Skill Development Laboratory in the area of Electric Vehicles.
Start one Skill Development Workshop facility in Additive Manufacturing and 3D Printing Technologies.	Process Initiated for establishing Skill Development Workshop facility in Additive Manufacturing and 3D Printing. 3D printing facility is operational in ECE and ME departments.
Conduct External Peer evaluation for the academic and administrative processes apart from the regular Internal Audit.	Conducted external peer evaluation for academic and administrative processes to improve quality and efficacy.

Conduct Training Programmes for students for placement and endeavor to secure 100% placement.	Placement and Career guidance related Training Programmes have been conducted for students.
Conduct one Faculty Development Programme per Semester per Department.	Faculty development programs have been conducted/scheduled by all departments considering availability of personnel.
Take measures to enhance admission so as to reach 100% level in all the Programmes	Measures have been implemented to attain 100% admissions in all the Programmes. Majority of undergraduate programs have attained 100% admissions.
Implement revised curriculum for the M.Tech Programmes.	Revised curriculum has been implemented for all M.Tech Programmes
Strengthen Consultancy works to reach a turnover of Rs.20 Lakhs.	Turnover from consultancy works has crossed the target of 20 lakhs. MBCET (Civil Department) has been empanelled by the Government of Kerala for Consultancy works for the Kerala Public Works Department.
Strengthen International relations and collaborative research/ exchange programmes.	Process Initiated for strengthening International relations and collaborative research/ exchange programmes.
Create Deanship for Alumni Matters and strengthen Alumni relations portfolio.	Process underway for creating Deanship for Alumni Matters. Discussions are ongoing with stakeholders to strengthen alumni relations.
Create incubation space for start-ups and provide seed fund.	Process initiated for providing start-up friendly environment and infrastructure on campus.
Review the Examination system and bring in reforms to strengthen academic processes under autonomy.	The examination system is being reviewed and fine-tuned on a systematic basis to strengthen the academic processes.
Create a career guidance and	Process initiated to expand the

Lifelong Learning centre for the Students.	operations of the existing Career Guidance and Placement Unit (CGPU) to cater to lifelong learning needs of students.
Start the work on new initiatives under NEP 2020.	Process initiated on implementing new initiatives under NEP 2020.

13. Was the AQAR placed before the statutory body? Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
College council and IQAC	11/12/2023

14. Was the institutional data submitted to AISHE ? Yes

- Year

Part A

Data of the Institution

1.Name of the Institution	Mar Baselios College of Engineering and Technology
• Name of the Head of the institution	Dr. Abraham T Mathew
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	0471-2545868
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Review the Examination system and bring in reforms to strengthen academic processes	The examination system is being reviewed and fine-tuned on a systematic basis to strengthen

under autonomy.	the academic processes.
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13.Was the AQAR placed before the statutory body?	Yes
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<ul style="list-style-type: none"> Name of the statutory body
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Name of the statutory body	Date of meeting(s)
College council and IQAC	11/12/2023

14.Was the institutional data submitted to AISHE ?	Yes
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<ul style="list-style-type: none"> Year
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Year	Date of Submission
2023	21/02/2023

15.Multidisciplinary / interdisciplinary

The new National Education Policy 2020 (NEP 2020) is being implemented at the national level with the objectives of access, equity, inclusivity and quality. Mar Baselios College of Engineering and Technology (MBCET) is collocated with an Arts and Science College and a Law College in the same campus under the same Management. An interdisciplinary approach to education is critical for engineering colleges. So, the running curriculum already contains 5% Humanities, roughly 14% Basic Science, 14% Engineering Science and only 45% Professional Core. Remaining part is for the electives. We shall explore more options to blend the curriculum with the adequate provisions for giving more options for the student, without losing the emphasis on the core

engineering knowledge and skills attributable to the core knowledge domain of the respective engineering discipline.

16.Academic bank of credits (ABC):

NEP 2020 is deemed as a transformative and ambitious policy in terms of the access and equity that it envisages. Lateral movement for the students across the institutions to continue the studies is seen as an option to enable a person to pursue studies until one secure higher degrees and get settled in the career.College is autonomous and is affiliated to the University. Hence Degrees are awarded by the University. So, if University enables multiple exit and multiple entry, without compromising the merit, it will be adopted as long as the affiliation status continues.College will explore the registration on the Academic Bank of Credits. College is following the tabulation pattern for the marks which can be in line with the data format needed for the Academic Bank of Credits. CSV is the output format that is prescribed for the digital academic management system of the College.

17.Skill development:

After becoming autonomous, College has started the skill development programme. We shall explore the design of our skill acquisition programmes in line with the NSQL. Topics like Constitution of India, Life Skills, Sustainable Engineering are the courses included in the curriculum to impart values through the education.

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

The significance of promoting the Indian Knowledge Systems is emphasized through various community oriented programmes. Students are encouraged to observe the days of regional and national importance. Student clubs like Aksharakoottam is aiming at nurturing language skills in the local language. Members of the faculty contribute their expertise in translating the SWAYAM MOOC Courses in Malayalam

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

College has completely embraced outcome education more than a decade ago, while getting prepared for the first round of assessment by NBA for accreditation. Under autonomy, OBE is specified as the framework for teaching and learning.

20.Distance education/online education:

Engineering is a broad discipline that applies scientific, economic, social and practical factors to the design, building, maintenance and improvement of structures, machines, devices, systems, and materials. College has been using the online tools for the online teaching during the lockdown. We have experienced the limitations in content delivery for the highly technical courses. So, extensive content development and virtual learning enabler solutions are required for the modality of Open Distance learning. This will be explored.

Extended Profile

1.Programme

1.1

19

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1

2041

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2

566

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

1494

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

File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	499
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2 Number of full-time teachers during the year:	178
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3 Number of sanctioned posts for the year:	177
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	120
4.2 Total number of Classrooms and Seminar halls	66
4.3 Total number of computers on campus for academic purposes	653
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	403.915

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

Mar Baselios College of Engineering & Technology initiated curriculum design and development on the conferment of autonomy in September 2020. The models considered for design of curriculum are the curricular structure of the affiliated University (KTU), the model curriculum prescribed by the AICTE, recommendations by Industry Experts and Alumni and recent advances in Technology, so as to reflect the Regional, National and Global perspectives.

The Institution is practising Outcome Based Education since 2014-2015. All the Undergraduate Programmes are accredited by the National Board of Accreditation. Each B.Tech Programme defines its Programme Educational Objectives and the Programme Specific Outcomes defined by NBA in alignment with the Institution Mission/Vision Statements. Each course in the curricula has its Course Objectives/Course Outcomes aligned with the POs, PSO's and PEO's.

As for the procedure, the draft curriculum is prepared and is then placed for discussion/approval by the Board of Studies (BoS). The BoS has experts from academia, industry in addition to faculty as members. The curriculum suitably revised on the basis of the suggestions by BOS is then placed for approval of the Academic Council (AC). The Curriculum is finalized after incorporating suggestions by the Academic Council if any, so as to produce students capable of fulfilling the needs of the job market globally. Such students will be directly and indirectly contributing through their commitment to the development and welfare of the Nation.

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

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

9

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

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

359

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

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

84

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

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

11

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The University curriculum has prescribed the study of Professional Ethics, human values, environment, and sustainability at the levels of semester S3, S4, S6, S7 and S8. In addition to this the College has approved and published a policy document in which the separate policies for code of conduct, research, academics, cultural, energy management, water management, waste management etc. are included.

The code of conduct policy, cultural policy, gender equity policy, Grievance Redressal Policy and other such policies are designed to address these issues. Besides the Grievance Redressal Committee (Staff), Grievance and Appeal Committee (students) and Women's Grievance Redressal Committee constituted as per directions of the government will be addressing the issues in these areas.

All these policy documents are published on the website to ensure transparency and for the information of the stakeholders and the public. The various clubs and Technical Societies such as IEEE, IET, ISTE, ASCS, ASME, Music club, Creative Writing club etc. organise co-curricular activities highlighting these aspects. Under the auspices of the clubs and societies also of the Institution National and International commemorative day's events and festivals are celebrated. This promotes and strengthens the sense of values and ethics of the students.

World Engineering Day, World Wetland Day, World Water day, World Environment day, World Ozone day, World Population day, World Conservation day and such days are celebrated. Such curricular and co-curricular activities will create greater awareness among the students about these areas.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

6

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

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

963

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

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

590

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is **A. All 4 of the above**

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

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

1.4.2 - The feedback system of the Institution comprises the following

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

File Description	Documents
Provide URL for stakeholders' feedback report	https://mbcet.ac.in/feedback/
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

526

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	No File Uploaded

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

123

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

2.2 - Catering to Student Diversity

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

The Institution organizes a one-week orientation program for the students when they join first year for their smooth transition from higher secondary education to Professional Education. Advanced learners and slow learners are identified by analyzing the class performance, assignments and the score in the internal examinations.

Advanced learners are encouraged to interact with Industry and Academicians regularly. They are made to be part of the Executive Committees of Department Associations. During Peer Group Tutorials, fast learners are made leaders to guide slow learners. Advanced learners are encouraged to take MOOC courses of their interest. The Institution takes a keen interest in motivating the students to take part in College Seminars, University level exhibitions, Technical festivals, Hackathons, Bootcamps, etc. There is a provision in the curriculum for opting for Honours and Minors.

Slow Learners: The Slow learners are identified, and extra sessions and assignments are given for them. The system has been effective in improving the academic performance of the students. Personal Counselling is given for Slow Learners to boost confidence levels and realize their potential. Remedial classes are arranged to give additional teaching. Students are encouraged to form peer groups. Classrooms are fitted with multimedia projectors to enable effective teaching.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2023	2652	177

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

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

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

The Teaching - Learning Centre of the Institute facilitates faculty development through

innovative teaching initiatives.

Active Cooperative Learning through Problem solving, Simulation, Brain/Mind Mapping, Flipped Classroom, Scaffolding, Think-Pair-Share, Flipped classes and group-based assignments inculcate

self-learning and teamwork among students. Assessment methods like Quiz, MCQ, Minute Paper, Surprise Tests, Peer Group

presentations are used. Our College is equipped with the latest labs, the Dr APJ Abdul

Kalam Centre for Innovation, Incubation and Entrepreneurship Centre (IEDC) to inculcate entrepreneurship instincts and project based learning. Kerala State Information Technology Infrastructure Limited

(KSITIL) has chosen MBCET as one of the Centres for conducting Skill Delivery

Platform Kerala (SDPK). Students are exposed to real world problems and encouraged to do real world projects in

subjects like sustainable Engineering and design Engineering. The Intel Unnathi Lab and

the Artificial Intelligence (AI) Lab have been set up to enable students to pursue projects

using cutting-edge technology. EV Skill Lab, Workshops and the well established laboratories help very much in the experiential learning and attainment of higher learning levels for students.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

The College promotes the usage of the latest technology in course content delivery. In order to promote this, the Teaching - Learning centre continuously train the Faculty and strengthens new directions in pedagogy and learning at MBCET. MBCET is using G-Suite as the Learning Management System (LMS) to facilitate online teaching and learning. The platform used for conducting online classes is Google Meet. Classrooms are fitted with Smartboards/multimedia projectors with Internet connection to enable the use of online resources. Self-learning is promoted among students using online resources from SWAYAM-NPTEL. FLIPPED CLASSROOM AND PEER GROUP LEARNING: Video lectures are provided to the students and doubt clearing sessions are arranged by the Faculty members to discuss these topics. Students are divided among groups and each group is assigned group projects as part of their course content, thereby developing teamwork and leadership skills among students.

MODE OF DELIVERY: Projectors installed in the classroom and smartboards are used for effective content delivery. PPT, Animation Videos, YouTube videos, etc. are used as part of content delivery to effectively deliver the course content. Students are also enrolled in Coursewise Google Classrooms for continuous learning and handholding by Faculty.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://mbcet.ac.in/teaching-learning/teacher-learning-centre/
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

114

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

At the start of every academic year the College prepares an academic calendar. Semester-wise calendar is also prepared. The academic calendar consists of reopening day, continuous assessment test dates, important events dates, end semester examination dates, holiday and vacation dates etc for each Semester. The same is made available online to the staff, students and parents. The calendar of activities is centrally monitored by the Dean Academic and Controller of Examinations and it is ensured that the Calendar of academic activities is strictly adhered to. The deadline for correction of continuous assessment test papers and entry of these marks in the web portal are strictly followed. Updates are presented in the Academic Council.

Further each Faculty member has to prepare a detailed course teaching plan with course objectives and course outcomes linked to the contents. The students are given a copy of a detailed course teaching plan by the course faculty within a week from the commencement of the classes. The Faculty member has to submit weekly subject coverage to the Head of the Department, who ensures that the course content delivery is done as per the schedule prepared. Along with that, the internal concurrent Department

Audits are conducted by IQAC twice every Semester, where the adherence of the Faculty member in preparation of the Teaching Plan and Content delivery are monitored and necessary directions are given. University conducts a post-audit every semester.

Academic calendar and sample teaching plan uploaded

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

177

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

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

50

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

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

1289

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

2.5 - Evaluation Process and Reforms

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

50

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

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

468

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Besides the KTU norms the College has constituted DQAC (Department Quality Assurance Cell) which appoints a Subject Expert for scrutinizing the quality of the question paper and CO's compliance of each Course. The question paper is further scrutinized by the Module Co-ordinator. The internal examination question papers are framed according to the Bloom's Taxonomy for facilitating higher levels of thinking in students. Then a report of the scrutiny is submitted to the HoD. The answer sheets are also scrutinized by

the Subject Expert. For assignment and internal examination question papers, the mapping of questions to Course Outcomes is shown at the end of the question paper. Student's attendance is strictly monitored. To make the students more committed, Parent-Teacher meeting is arranged. To boost up the academic performance several Awards are given at the Institution Level.

Exam Management in Linways: Linways AMS, is used for online exam registration, hall arrangement, generation of false number consolidated mark list, grace mark & moderation. It is also used for advanced result analysis and online certificate verification. mbcet.linways.com

Preparation of QP-OBE (Autonomous): For the Autonomous batches, the End Semester Exam Question Papers are set on the basis of Bloom's Taxonomy Level. This helps in moving towards an Outcome Based Education (OBE) which transpires to good learning outcomes and continuous improvement.

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

2.6 - Student Performance and Learning Outcomes

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

POs and PSOs of the Departments have been included in the pages of the corresponding Departments in the college website www.mbcet.ac.in

The POs and PSOs are displayed in all the staffrooms, classrooms, library and laboratories.

POs and PSOs are also communicated to students via Assignment Books, lab manuals and lab records/hand books.

The Course Outcomes are laid out for each subject by the APJ Abdul Kalam Technological University as well as the autonomous curriculum, and if needed the subject expert can modify and frame it according to Bloom's Taxonomy. The Course Outcomes so framed are further reviewed by the module coordinator and the Department

Quality Assurance Cell (DQAC). For theory subjects and laboratory classes, Course Outcomes are communicated by the faculty handling the subject.

The data being voluminous only samples of course outcomes are attached.

Link for COs of B.Tech and M.Tech Autonomous batches <https://mbcet.ac.in/departments/electronics-communication-engineering/syllabus/>

<https://mbcet.ac.in/departments/computer-science-engineering/syllabus/>

<https://mbcet.ac.in/departments/mechanical-engineering/syllabus/>

<https://mbcet.ac.in/departments/electrical-electronics-engineering/syllabus/>

<https://mbcet.ac.in/departments/civil-engineering/syllabus/>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

KTU batch (2019-2023):

Continuous Internal Assessment: Direct Method: Each question in the question paper is mapped to one or more course outcomes. No. of attempts and no. of students scored more than 60% of the maximum marks are calculated.

Indirect Method: Survey is conducted to check the response of students with respect to the attainment of COs. Responses above "FAIR" are considered for CO attainment. Based on the following formula, the overall CO attainment percentage is calculated.

Overall CO attainment is calculated as $CO(\%) = (0.8 \times \text{University attainment level} + 0.2 \times \text{Continuous Internal Assessment level})$.

MBCET Autonomous batches:

(i) Direct Method: For continuous assessment tests, tutorials, lab work, assignments, etc., every question in the question paper is mapped to a specific course outcome. The number of attempts and the count of students scoring above 60% of the maximum marks are then recorded.

(ii) End semester examination

(iii) Indirect Method: A course exit survey is administered to gather students' feedback on the achievement of Course Outcomes (COs), utilizing a five-point Likert scale.

PO assessment is done through course outcomes, co-curricular activities and indirectly through a program exit survey at the end of graduation.

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

2.6.3 - Pass Percentage of students

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

382

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://mbcet.ac.in/annual-report/

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://mbcet.ac.in/feedback/>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

MBCET strives to be a Centre of Excellence in Engineering Research, contributing to the development and advancement of global research and technology innovation initiatives for providing real-world solutions to the industry/society. Research culture is promoted in the campus by providing a high-quality and flexible collaborative research ecosystem. College has a Research Policy which emphasizes research as a mandatory component for the academic departments. The multi-disciplinary research is also promoted for enabling innovations that offer solutions to various requirements elicited through community interactions. According to the directions issued by the UGC and given the need for aligning the academic processes and research activities on the campus with the National Education Policy 2020 (NEP 2020), College has set up a Research and Development Cell (RDC) and is in the process of developing a Central Research Lab (CRL) under RDC as a central facility. It is hoped that the establishment of RDC will enable the College to attain the targets of Aatma-Nirbhar Bharat (Self-Reliant India) by playing the catalytic role in promoting the culture of multi-disciplinary/ trans-disciplinary and translational research as envisioned in the NEP 2020. Gradually the outputs of R&D will be translated into innovations and prototypes which can be transferred to the industries for commercialization. Broader institutional networking will be facilitated through linkages with other academic, R&D, and industrial organizations. Research is made as an essential component in the activities of the faculty. Incentives are promoted for patents, publications etc

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://mbcet.ac.in/wp-content/uploads/2022/10/3.ResearchDevelopment_Policy.pdf
Any additional information	No File Uploaded

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

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

5.94

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

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

1

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

3.2 - Resource Mobilization for Research

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

8.635

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

16

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

3.2.3 - Number of teachers recognised as research guides

19

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

4

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://mbcet.ac.in/research/funded-projects/
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Innovation and Entrepreneurship Development Centre of Mar Baselios College of Engineering, Catalyst created engagement for inspiring students. Activities like SOUTH ZONE IEDC MEETUP, Workshop on Entrepreneurship, Innovation , IDEAVERSE idea pitching competition, INNOVATIVE PROJECT SELECTION AND PATENTING ,CONVERGE hackathon, INCEPTRA WORKSHOP Idea Generation to Product Market Fit , INCEPTRA workshop by Prof. Sarju S, iTalk-2 by Mr. Gopikrishnan , iTalk on Incubation opportunities for students and faculty members .

Achievements: The project "Bicycle Tractor" got selected for funding in Idea Fest 2022 organized by Kerala Startup Mission. The team members are Henry Christudas Issac, Gokul R S Nair, A Muhammed Siddique, Sarath S, Rahul B and Saran Deny (ME), guided by Dr. Deepak G Dilip. The project "Smart Pumping Stations-SPS for uninterrupted safe drinking water to all" won Rs. 1,50,000/- from KWA Hackathon in association with KSUM, guided by Mr. Jijo Jose. Mr Shibu got selected in State level IEDC Network of Entrepreneurs and Students Team(IEDC NEST) and in "Problems of Elderly" vertical at Young Innovators Programme(YIP) by K-DISC. Mr Aaron K , Mr. Abin Abraham, Mr Abhilash George and Ms Nikita Maria Philip got selected in 'Assistive Technologies' and 'Agriculture' vertical at YIP, organized by (K-DISC) .

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://mbcet.ac.in/innovation-entrepreneurship/iedc-innovation-entrepreneurship-development-centre/

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

69

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

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

B. Any 3 of the above

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

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

3.4.2.1 - Number of PhD students registered during the year

5

File Description	Documents
URL to the research page on HEI website	https://mbcet.ac.in/research/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

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

0.107

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

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

0.124

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

599

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

17

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

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

1183972.66

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

6.13305

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The institution initiates many extension activities in the neighbourhood sensitising students to develop ethical values and to showcase their responsibilities in social issues for their holistic development, by being a part in the society. This is facilitated through department associations and other extension activities such as NSS. Interactive sessions, walkathon, internship opportunity "Project Ganitham" for the college students to gain experience in teaching and student development , campaigns, social services, health care services such as blood donation, food donation, kit distribution, hospital premises cleaning, tribal village visit were conducted. A clean energy rally was conducted in collaboration with GoK, Kerala Development and Innovation Strategic Council (KDISC), Kerala State Electricity Board (KSEB), Clean Energy Innovation & BUSINESS Incubation Centre (CEIBIC). Energy conservation rally conducted by the clean energy mission and KSEB, unit 230 became a venue as part of the mission quiz were conducted. A campaign against Corruption and drugs in collaboration with vigilance anti corruption bureau and GoK was also organized.

Almost thirty students actively participated throughout these events. A tribute session was conducted for ganitham volunteers in the title "Synergy'23", in Collaboration with UST. These ventures helped the students to understand more about their roles and responsibilities as a part of the society.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/outreach/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	No File Uploaded
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

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

13

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

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

442

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

3

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

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

21

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

Creating a better environment for education is the main aim of our Institution. It ensures adequate availability and optimal utilization of physical infrastructure for the excellence in education through advanced technologies. An assessment of the existing infrastructure is carried out in each academic year and according to the suggestions, replacement or upgradation is done thereby enhancing innovative teaching and learning facilities. All the classrooms have good acoustic conditions with LCD projectors and internet facilities. There are 10 classrooms with smart boards and another 40 plus with multimedia projectors. There are more than one seminar halls in each department with addressing area, whiteboard, LCD projector, internet connection, sound system and cameras. One seminar hall of each department is air conditioned. Each hall has a maximum capacity of 100 students. The laboratories are well equipped with multiple sets of apparatus. A CNC machine (Turning and Milling) has been purchased. Latest configuration desktops and software are provided in computer labs. The lab

attached to all Departments continuously upgraded. The Library has a wide variety of books and an adequate number of journals. Library works in two shifts and is partially automated. The Library is computerized with all the features of Library Management Systems. It maintains e-books as well. The Institution has an exam wing to house the office of the Controller of Examination and the Deputy CoEs.

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

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

The Institution gives due importance to extracurricular activities along with academic subjects for the all-round development of the students. The activities regarding this are coordinated by the Physical Education Department ably assisted by the Students' Senate, Faculty and Staff. Besides, about 20 students Clubs/Committees/Cells/Technical Societies function on the Campus to ensure good engagement of the students in the co-curricular, extra-curricular and cultural activities. MBCET emphasizes the importance of sports as an integral part of the curriculum and provides sports facilities. The College has two courts for Volleyball and one court for Basketball. It has a multi-purpose Hall with a 3 flood light court for Shuttle Badminton, one Netball court, Yoga hall and has separate halls for Table Tennis, Chess, and Caroms. The college has a full-fledged multi gymnasium, Yoga club which aims at the physical, mental and spiritual practice and discipline. In addition, the Mar Ivanios stadium is utilized for conducting Athletic Meets. Cell for Universal Human Values is engaged in cultivating proper values among the students. To develop the cultural traits among the students, the Institution regularly carries out inter branch cultural fest called BASELIAN FEST and CROSSROADS - a National inter collegiate Cultural and Technical fest.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/departments/physical-education/facilities/

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

66

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

330.21955

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

4.2 - Library as a Learning Resource

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

Data Requirement: Provide a description of the library with

- **Name of the ILMS software: KOHA ILMS version 3.12.06**
- **Nature of automation (full or partial): Full**
- **Version: 3.12.06**

- Year of automation: 2014

MBCET Central library is well-equipped with latest infrastructure and well-stocked with a good collection of books. Library migrated to KOHA ILMs version 20.11 from January 2021. Our department libraries are also automated with KOHA ILMs version 3.12.06 from 2014 onwards and upgraded to 21.05 on the year 2022. From 2006 to 2014 the library functioned on INFLIBNET's SOUL s/w. From 2014 onwards library shifted to Libsoft library software. Barcode based circulation system is following with all books are classified based on DDC 20th edition.

The central library has a good collection of records including 27761 volumes and 11617 titles, 97 printed national journals, E-Journals packages such as IEEE (Institution of Electronics and Electrical Engineers)-ASPP. ASCE (American Society for Civil Engineers), ASME (American Society for Mechanical Engineers), IET (India), Elsevier's Science Direct, E-Books from EBSCO Engineering Host (6500+ books) and DELNET Digital database, 1450 CD-ROMS and BIS codes & IRC Codes. The Digital Library have Remote Access to e-resources using Knimbus Remote access facility that can be access in Mobile application also. The library has Institutional Digital Repository using DSPACE Digital library OSS. The institution has departmental libraries for all departments having a collection of 2222 volumes. A separate computer center is integrated with Library to enable online access in addition to the campus wide Wi Fi.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://library.mbcet.ac.in/

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

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

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

30.81546

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

92

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

MBCET ITMS provides secure access to information resources to students, faculty and staff to facilitate education, research, communication facility & computing network. The ratio of computer to students is 1:4. All PC's with recent configuration are connected to Local Area Network (LAN). Access to campus wide Wi-Fi is given to faculty and students on their laptops and mobile phones. The Wi-Fi facility was updated in April 2022. College has an Internet Leased Line of 225 Mbps bandwidth, 1:1 uncompressed on

optical fiber and is scalable also. All staffrooms are provided with network connected PC's and each department has software labs with computing facility for the students. All the classrooms and seminar halls have wired internet or Wi-Fi facilities Several licensed software's are available to each department. Video lectures for the effective Teaching -Learning processes are captured by the facilities provided by ITMS. A Central Computing Facility (CCF) is also working in the Institution to provide central site for hands on computer training with 65 high performance computers. Dual boot operating systems are available in the systems. The college has a provision of central storage space and email service for all staff. Student Management System, Course Management System, Digital Library, Biometric attendance system, streaming media server, E-mail server and other campus management software's are aided by ITMS department of our College. My Payroll Master, a new software to manage staff attendance functions since 30th March 2022. The Academic Management System is cloud based.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/wp-content/uploads/2022/10/6.IT-Policy.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2041	653

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 50 Mbps

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

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

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1ScnLxLjg6k0lPRLr5t1lIS10AHBBGEEDz/view?usp=sharing
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

112.85791

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

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

Campus management is looked after by Bursar. The Chairman of the Parent body entrusts the Bursar with the above task. Annual maintenance is done every year including replacement of damaged items. The Electrical wing of the college takes care of the repair, maintenance or replacement of electrical fittings. The labs updation and maintenance, installation of new machineries for replacement of old systems are done as per the requirement of

Departments. The Information Technology Management System (ITMS) takes care of all the computer labs and IT enabled facilities. The Librarian takes care of library and routine affairs over major maintenance and updation work are executed by the Bursar. The college buses are maintained properly by the Vehicles unit. The sports complexes of the College, the gymnasium and the basketball court, tennis court etc. are managed by the Physical Education director. The Management and maintenance of the boy's hostel and the ladies hostel are done by the Bursar and the Assistant Bursar. An Estate Manager and the House keeping Staff both male and female assist the Bursar in the execution of all such works. A Full time Counsellor takes care of the counselling needs of the students while the Nursing Superintendent is at the service of those in need at the Nursing Station. The structure of the procedures and policies of maintenance is represented in the flow chart given in the website.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://mbcet.ac.in/resources/maintenance-cell/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

282

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

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

110

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology **A. All of the above**

File Description	Documents
Link to Institutional website	https://mbcet.ac.in/students/student-club/ , https://mbcet.ac.in/home/professional-socities/
Details of capability development and schemes	View File
Any additional information	View File

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

340

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

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for **A. All of the above**

**submission of online/offline students’
grievances Timely redressal of grievances
through appropriate committees**

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

5.2 - Student Progression

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

191

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

5.2.2 - Number of outgoing students progressing to higher education

22

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

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

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

government examinations) during the year

3

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

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

15

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

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

MBCET College Senate, the representative body of all students consists of a Chairperson, Vice Chairperson, General Secretary, Magazine editor, Arts Club Secretary, two Councilors to the election field of University Union General Council, two girl students representing all the girl students in the College, one student representative from each branch and two Staff Advisors.

Administrative bodies/committees of the Institution with student representation include Course Committees and Class Committees as directed by the University. The Committee includes 4 Student Representatives. All branches of study will have class committees for every Semester constituted by the respective Heads of Departments. This committee has two Student Representatives nominated by the Head of the Department.

The Innovation and Entrepreneurship Development Centre has an executive committee with 14 student members and one faculty member designated as the Nodal Officer.

Under the UBA programme of MHRD, Government of India, the UBA cell of the college functions with a Project Coordinator, ten student

representatives and one faculty representative from each Department.

Professional bodies namely IEEE, IET, ISTE, CSI, ACM, ASCE and ASME with student representation are actively functioning in the College. In the Internal Quality Assurance Cell, the Senate chairperson is included as the student representative.

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

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

48

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

5.4 - Alumni Engagement

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

MBCETAA (Mar Baselios College of Engineering and Technology alumni association) was conceived with the help and co-operation of the Principal, and Management of the College. The Association was formally inaugurated on 25 January, 2009. The alumni association is registered as a society in accordance with the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act, 1955. MBCETAA supports the Institution in fields of curriculum development, placement and training, social obligations, among others. MBCETAA Middle East Chapter consisting of Alumni from UAE, Oman, Qatar, Saudi Arabia is functioning.

During the year 2022-23, MBCETAA sponsored an amount of Rs. 40,000/- for an M.Tech student and an amount of Rs. 1,20,000/- for a B.Tech student towards their fee since they are financially

backward.

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

5.4.2 - Alumni's financial contribution during the year

C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

- The vision and mission of the institution envisages improving the efficacy of governance making it more expedient. The Statutory Bodies meet on an average two times a year
- Heads of Departments and six Deans - Dean Administration, Dean Academic, Dean Research & Consultancy, Dean PG, Dean Student Affairs, Dean Corporate Relations, for better governance
- Office of the Controller of Examinations along with two Deputy Controller of Examinations
- Separate building for Exam wing
- The Academic Council and Board of Studies
- Efficient Office administration
- E-bulletin for publicizing the activities of the Institute, to disseminate its vision and mission

- Information dissemination through social media
- Proper alignment of Strategic Plan and the Programme Educational Objectives with the Vision and Mission of the College
- Maintains good governance practices and equity approach in empowering faculty in decision-making process through membership in statutory bodies and governance
- College aims at becoming a globally renowned Centre of Excellence in engineering and technology, both for education as well as research. The Strategic Plan of the Institution to attain quality and infrastructure had enabled the conferment of the "Autonomous Status" by the UGC and the affiliating University in 2020. Involvement of teachers in governance is ensured through decentralization of authority to various levels and their membership in decision-making bodies. The attainment of the quality needed for the accreditation manifests the commitment to the vision

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/about/administration/

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

The Management has created multiple levels in the administration - The Principal & The Vice Principal, and Deans. The roles and responsibilities of the Deans have been defined with a view to decentralize the Management functions.

The College as an organization practices the decentralization of the power and participative decision making in the management of the activities and institutional development. Continuous review and improvements are done to facilitate inclusivity and involvement in management of the Institute.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/about/administration/

6.2 - Strategy Development and Deployment

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

In the Strategic Plan the Goal 3 was stated as "To create an environment for the students to succeed at their highest level through high quality academic programs, co-curricular and extra-curricular activities and community outreach programmes". The objective articulated for attaining this goal is to "Develop a culture to serve the society". For this there were multiple strategies of which one of them was "Arrange inspirational activities encouraging students for community service". Each Department has a philanthropic wing along with the professional associations. It's mandatory for the students to do charitable activities like coding skills, helping orphanages, visiting old age homes, providing study materials for the school going children of the financially weaker families, constructing the houses for the needy persons, electrification of the houses including wiring, cleaning the beach and recreation centres to remove plastic, conducting environment sensitization programmes for public, conducting community surveys, covid awareness, distribution of the sanitizer dispenser to Government schools and so on through their own initiatives under the guidance of faculty and staff. These are apart from the community service activities of the National Service Scheme Unit of the College.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://mbcet.ac.in/about/strategic-plan/
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from

the policies, administrative set-up, appointment and service rules, procedures, etc.

MBCET is administered by the Malankara Catholic Church through the charitable Society namely Malankara Catholic Educational Society which is registered with the Government of India. MBCET campus provides an ideal milieu for academic pursuits. The Governance system includes the Governing Body chaired by the Patron himself. Functions of the top management are discharged through the Bursar and Assistant Bursar. They take care of Infrastructure development, Appointments and Promotions, Finance and Accounts, Hostels, Bus, Canteen, Stores, House-keeping, e-governance and IT Management and Services. Principal is the Head of all academic matters and the general administration. The Deans and the Heads of the Departments form the Academic lead team supported by the Office Superintendent, Controller of Examinations, Librarian and so on. The Statutory bodies of Academic Council, Boards of Studies and Finance Committee provides the complete system for the College as an autonomous institution. The Organogram of the Institution depicts the delegations adequately.

File Description	Documents
Paste link to Organogram on the institution webpage	https://mbcet.ac.in/about/administration/
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

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

For the Teaching faculty, the facilities for National Pension Scheme, Group Insurance, Accidental Insurance have been implemented and for the Non-teaching staff, statutory EPF and ESI scheme have been implemented. Besides this, in case of emergencies financial support is given to those who are in need. As a social responsibility, the Management and Teaching faculty contribute generously to meet the requirements of the needy such as construction and /or renovation of houses. Financial help is given to support the medical expenses of those who are in urgent need. For the House-keeping Staff mandatory ESI scheme is there.

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

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

37

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

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

9

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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

75

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal audit is done by the Management through its representatives namely, the Bursar and the Assistant Bursar. They are supported by the administrative section of the Institution especially the Superintendent and the Head Accountant. All the bills and vouchers are audited by them and the entire accounts are preserved digitally as part of e-governance to ensure transparency and accountability.

Annual financial audit is statutory as per the regulations of the university and AICTE. Accordingly, this year the same has been conducted by a competent reliable and established external agency. The audit has been conducted in accordance with the Government norms.

Besides these this year Inter Departmental Internal Audit was conducted. Again, Audit by the Kerala Technological University Experts also was held. In addition to this, an External Team of Experts conducted Academic and Administrative Audits.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/wp-content/uploads/2023/12/auditors-report-2022-23.pdf

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

3

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

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

- Submitted the KSHEC (Kerala State Higher Education Council) Survey 2022 of IT Infrastructure facilities on 15-8-2022. Also Submitted the details of IIC (Institute Innovation Council) activities in the MHRD portal which in turn will be reflected for Atal Ranking of Institutions on Innovation Achievements (ARIIA2022). ARIIA data was submitted on 30th September 2022. Also submitted details for The National Institutional Ranking Framework (NIRF) on 12th Jan 2023.
- As a part of acting as a nodal agency of the Institution for coordinating quality-related activities, IQAC verified the seven-Faculty Development Programmes (FDPs) conducted by the various departments
- Prepared the Annual Quality Assurance Report 2021-2022 (AQAR) of the HEI based on the quality parameters / assessment criteria developed by NAAC in the prescribed format and was approved by IQAC and submitted on 17th Dec 2022. Conducted Internal and External Academic and Administrative Audits and submitted the reports to University and UGC.
- NBA Internal Audits were conducted from 10th October 2022 to 22 nd October 2022. NBA. Peer team visit was on 28 th , 29 th and 30 th October 2022.The exit meeting was on 30th October 2022.

Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes for the year 2022-2023 were initiated during May 2023 .

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/research/funded-projects/

6.5 - Internal Quality Assurance System

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

- Submitted the KSHEC (Kerala State Higher Education Council) Survey 2022 of IT Infrastructure facilities on 15-8-2022. Also Submitted the details of IIC (Institute Innovation Council) activities in the MHRD portal which in turn will be reflected for Atal Ranking of Institutions on Innovation Achievements (ARIIA2022). ARIIA data was submitted on 30th September 2022. Also submitted details for The National Institutional Ranking Framework (NIRF) on 12th Jan 2023.
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October 2022.

Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes for the year 2022-2023 were initiated during May 2023 .

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/iqac/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The Teaching Learning Centre (TLC) has been established by the Management for focusing on the preparation of teachers for delivering the contents effectively and for their continuous professional development. It also sets the ecosystem for making the learning more exponential and immersive for the students. Training of the teachers are regularly conducted. The induction of newly appointed teachers, their training, etc. are also pursued by the TLC.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/teaching-learning/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://mbcet.ac.in/annual-report/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

The Women Studies Unit, IEEE, ISTE SHE cells, and two NSS units actively function towards gender-specific programmes. Security measures have been taken to create a safe environment for girl students to be free from ragging and sexual harassment. Grievance Redressal Committee has been setup for students and staff to log grievances. The anti-ragging committee ensures a ragging-free environment which is up and address by the principal and faculty representatives. Separate washrooms are provided for both boys and girls. To ensure the safety and security of our students, a security system is available with supervision and a CCTV surveillance system throughout the whole campus. The hostel timings followed by students are strictly monitored by tutors and wardens for the safety of the female students. There are various women secretaries in various clubs, sports, associations, the hostel council, and the student council. Counselling sessions were organised by the institution with the help of the medical institute under the same management in order to create awareness of gender sensitivity. Counsellors continuously provide guidance on a one-to-one basis for the entire class.

Facilities Available for women on campus

A centralized Nursing Station with a full time Nursing Superintendent.

Counselling facility with a permanent counsellor

Common rooms are attached to each department.

Safety and security are ensured through 24/7 security personals.

Surveillance cameras function in the entire area of the campus.

Housekeeping staff are deployed for any emergency as per requirement.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/wp-content/uploads/2022/11/22.Gender-Equality.pdf , https://mbcet.ac.in/internal-complaints-committee-icc/

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

A. Any 4 or All of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

The college has a Waste Management Cell ensures effective management of the various types of wastes generated in the premises through sustainable practices in converting Waste to resource. Regular monitoring, conduct of awareness sessions for the stakeholders, encouraging innovative ideas and projects towards efficient disposal of waste are undertaken by the cell and various departments as when required

Solid Waste Management Methods:

1. The Biogas Plant:

A 80 m3 fixed dome biogas plant is attached to the Mar Aprem Hostel. The food waste from MBCET canteen and hostel is deposited in this biogas plant is used for cooking in hostel.

Material Recovery Facility:

The different types of waste collected from the college are segregated in the Material recovery facility. Different color bins are used for waste collection. The waste segregated are disposed through local vendors.

Incinerator:

An incinerator placed near MRF is used for burning dry waste. Small incinerators are placed in ladies toilet for napkin disposal.

E-Waste Disposal:

E-waste collected from various departments are disposed to e-waste collection agency. Desktops that can be repaired or reused are given to needed students.

Chemical waste:

Chemical waste from lab is collected and disposed safely in Chemistry lab of Mar Ivanios College.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

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

7.1.5 - Green campus initiatives include

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

A. Any 4 or All of the above

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

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

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

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

B. Any 3 of the above

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

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

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	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, socio-economic and other diversities (within a maximum of 200 words).

Inclusive Environment

The institution has been setup with minimum tampering to the geographical structure of the terrain.

Tolerance

Tolerance to nature- We preserve the water bodies intact

Tolerance to humans- Though established and managed by a particular religious community, people of other religion, caste, creed, belief and custom also are accommodated without distinction.

Regional considerations are taken in the Institution for account of admissions (economically backward students are given fee concession).

To provide harmony among staff, get together, recreation and tours are arranged with a financial support up to 50% to the needy staff.

Silent prayer which is practiced daily shows the respect to all religions without highlighting any particular one.

Socio economic aspects

The institute wholeheartedly support the housing charity program for the benefit of economically and socially backward people with an amount of Rs.10 lakh every year.

Various departments and cells such as NSS, Sparsham, Thanal etc. of the Institute has provided food and necessities to the old age homes, hospitals and streets.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

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

Several classes, programmes and outreach activities have been conducted to sensitize the students and employees of the institution to constitutional obligations, values, rights, duties and responsibilities of citizen.

Constitutional obligation - The institution prompts its stakeholders to abide the Constitution and respect its ideals and institutions, the National Flag and the National Anthem through its curricular and co-curricular initiatives.

- 'Constitution of India' is taught as a non-credit course to the second year students.
- The preamble of the Constitution is read in every classes on the Constitution Day.
- MBCET have adopted the integrity pledge as Organization and staff pledged as Citizen and is committed to uphold the highest standards of honesty, integrity and to follow probity and rule of law in all walks of life
- Independence Day and Republic Day were celebrated.

Values - UHV cell of MBCET is active and motivate all staff to attend the FDP, an initiative of AICTE.

Duties and Responsibilities of Citizen - Protect and improve the natural environment including forests, lakes, rivers and wildlife and to have compassion for living creatures and to Safeguard public property and to abjure violence the following initiatives have been taken by the various departments and cells of MBCET.

- Beach clean-up in collaboration with Sustera foundation
- Cloth Donation Campaign 2.0
- Anti-Narcotics Pledge
- NEC Karuthal

- Republic Day celebrations
- World Rivers Day
- Food Donation on NSS Day

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	No File Uploaded
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized A. All of the above

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

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

MBCET celebrate National and International commemorative days, events and festivals through its various Cells/Units to aware the students and staff the significance and promote collective

responsibility towards the nation and universe.

The following commemorative days are observed and celebrated

- Independence Day
- Republic Day
- International Yoga Day
- World Population Day
- World Day for International Justice
- Teachers Day
- Global Literacy Day
- World Suicide Prevention Day
- World First Aid Day
- International Peace Day
- NSS Day
- World Rivers Day

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Scholarships for Engineering aspirants to encourage the aspirants in the field of Engineering and Technology so as to develop their skills for the sustainable growth of the society. This scholarship is issued to the best outgoing students of schools to find the Engineer within them,

Student Innovations Excellence Through Best Project Awards to promote student innovations and team spirit by enabling competition in the project work among the students so that they will be inclined to learn many things beyond the curriculum

File Description	Documents
Best practices in the Institutional website	https://mbcet.ac.in/wp-content/uploads/2023/12/Best-Practice.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The college won the certificate of Excellence with Institutional Grade 'A' under the 'Gold' category. The certificate was issued as part of R-world Institutional Ranking, by the "Sustainable Institutions of India Green rankings 2023". The award was given on the basis of an Institutional self study report according to the various criteria fixed by them, regarding the sustainable practices of the Institution (namely from green initiatives of ISTE, Energy management cell, waste management cell, environment cell, water management cell, NSS, Nature clubs etc)

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

Mar Baselios College of Engineering & Technology initiated curriculum design and development on the conferment of autonomy in September 2020. The models considered for design of curriculum are the curricular structure of the affiliated University (KTU), the model curriculum prescribed by the AICTE, recommendations by Industry Experts and Alumni and recent advances in Technology, so as to reflect the Regional, National and Global perspectives.

The Institution is practising Outcome Based Education since 2014-2015. All the Undergraduate Programmes are accredited by the National Board of Accreditation. Each B.Tech Programme defines its Programme Educational Objectives and the Programme Specific Outcomes defined by NBA in alignment with the Institution Mission/Vision Statements. Each course in the curricula has its Course Objectives/Course Outcomes aligned with the POs, PSO's and PEO's.

As for the procedure, the draft curriculum is prepared and is then placed for discussion/approval by the Board of Studies (BoS). The BoS has experts from academia, industry in addition to faculty as members. The curriculum suitably revised on the basis of the suggestions by BOS is then placed for approval of the Academic Council (AC). The Curriculum is finalized after incorporating suggestions by the Academic Council if any, so as to produce students capable of fulfilling the needs of the job market globally. Such students will be directly and indirectly contributing through their commitment to the development and welfare of the Nation.

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

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

9

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

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

359

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

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

84

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

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

11

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The University curriculum has prescribed the study of Professional Ethics, human values, environment, and sustainability at the levels of semester S3, S4, S6, S7 and S8. In addition to this the College has approved and published a policy document in which the separate policies for code of conduct, research, academics, cultural, energy management, water management, waste management etc. are included.

The code of conduct policy, cultural policy, gender equity policy, Grievance Redressal Policy and other such policies are designed to address these issues. Besides the Grievance Redressal Committee (Staff), Grievance and Appeal Committee (students) and Women's Grievance Redressal Committee constituted as per directions of the government will be addressing the issues in these areas.

All these policy documents are published on the website to ensure transparency and for the information of the stakeholders and the public. The various clubs and Technical Societies such as IEEE, IET, ISTE, ASCS, ASME, Music club, Creative Writing

club etc. organise co-curricular activities highlighting these aspects. Under the auspices of the clubs and societies also of the Institution National and International commemorative day's events and festivals are celebrated. This promotes and strengthens the sense of values and ethics of the students.

World Engineering Day, World Wetland Day, World Water day, World Environment day, World Ozone day, World Population day, World Conservation day and such days are celebrated. Such curricular and co-curricular activities will create greater awareness among the students about these areas.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

6

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

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

963

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

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

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

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

1.4.2 - The feedback system of the Institution comprises the following

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

File Description	Documents
Provide URL for stakeholders' feedback report	https://mbcet.ac.in/feedback/
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	No File Uploaded

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

123

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

2.2 - Catering to Student Diversity

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

The Institution organizes a one-week orientation program for the students when they join first year for their smooth transition from higher secondary education to Professional Education. Advanced learners and slow learners are identified by analyzing the class performance, assignments and the score in the internal examinations.

Advanced learners are encouraged to interact with Industry and Academicians regularly. They are made to be part of the Executive Committees of Department Associations. During Peer Group Tutorials, fast learners are made leaders to guide slow learners. Advanced learners are encouraged to take MOOC courses of their interest. The Institution takes a keen interest in motivating the students to take part in College Seminars, University level exhibitions, Technical festivals, Hackathons, Bootcamps, etc. There is a provision in the curriculum for opting for Honours and Minors.

Slow Learners: The Slow learners are identified, and extra sessions and assignments are given for them. The system has been effective in improving the academic performance of the students. Personal Counselling is given for Slow Learners to boost confidence levels and realize their potential. Remedial classes are arranged to give additional teaching. Students are encouraged to form peer groups. Classrooms are fitted with

multimedia projectors to enable effective teaching.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2023	2652	177

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

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

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

The Teaching - Learning Centre of the Institute facilitates faculty development through

innovative teaching initiatives.

Active Cooperative Learning through Problem solving, Simulation, Brain/Mind Mapping, Flipped Classroom, Scaffolding, Think-Pair-Share, Flipped classes and group-based assignments inculcate

self-learning and teamwork among students. Assessment methods like Quiz, MCQ, Minute Paper, Surprise Tests, Peer Group

presentations are used. Our College is equipped with the latest labs, the Dr APJ Abdul

Kalam Centre for Innovation, Incubation and Entrepreneurship Centre (IEDC) to inculcate entrepreneurship instincts and

project based learning. Kerala State Information Technology Infrastructure Limited

(KSITIL) has chosen MBCET as one of the Centres for conducting Skill Delivery

Platform Kerala (SDPK). Students are exposed to real world problems and encouraged to do real world projects in

subjects like sustainable Engineering and design Engineering. The Intel Unnathi Lab and

the Artificial Intelligence (AI) Lab have been set up to enable students to pursue projects

using cutting-edge technology. EV Skill Lab, Workshops and the well established laboratories help very much in the experiential learning and attainment of higher learning levels for students.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

The College promotes the usage of the latest technology in course content delivery. In order to promote this, the Teaching - Learning centre continuously train the Faculty and strengthens new directions in pedagogy and learning at MBCET. MBCET is using G-Suite as the Learning Management System (LMS) to facilitate online teaching and learning. The platform used for conducting online classes is Google Meet. Classrooms are fitted with Smartboards/multimedia projectors with Internet connection to enable the use of online resources. Self-learning is promoted among students using online resources from SWAYAM-NPTEL. FLIPPED CLASSROOM AND PEER GROUP LEARNING: Video lectures are provided to the students and doubt clearing sessions are arranged by the Faculty members to discuss these topics. Students are divided among groups and each group is assigned group projects as part of their course content, thereby developing teamwork and leadership skills among

students.

MODE OF DELIVERY: Projectors installed in the classroom and smartboards are used for effective content delivery. PPT, Animation Videos, YouTube videos, etc. are used as part of content delivery to effectively deliver the course content. Students are also enrolled in Coursewise Google Classrooms for continuous learning and handholding by Faculty.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://mbcet.ac.in/teaching-learning/teacher-learning-centre/
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

114

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

At the start of every academic year the College prepares an academic calendar. Semester-wise calendar is also prepared. The academic calendar consists of reopening day, continuous assessment test dates, important events dates, end semester examination dates, holiday and vacation dates etc for each Semester. The same is made available online to the staff, students and parents. The calendar of activities is centrally monitored by the Dean Academic and Controller of Examinations and it is ensured that the Calendar of academic activities is strictly adhered to. The deadline for correction of continuous assessment test papers and entry of these marks in the web

portal are strictly followed. Updates are presented in the Academic Council.

Further each Faculty member has to prepare a detailed course teaching plan with course objectives and course outcomes linked to the contents. The students are given a copy of a detailed course teaching plan by the course faculty within a week from the commencement of the classes. The Faculty member has to submit weekly subject coverage to the Head of the Department, who ensures that the course content delivery is done as per the schedule prepared. Along with that, the internal concurrent Department Audits are conducted by IQAC twice every Semester, where the adherence of the Faculty member in preparation of the Teaching Plan and Content delivery are monitored and necessary directions are given. University conducts a post-audit every semester.

Academic calendar and sample teaching plan uploaded

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

177

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

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

50

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

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

1289

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

2.5 - Evaluation Process and Reforms

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

50

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

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

468

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Besides the KTU norms the College has constituted DQAC (Department Quality Assurance Cell) which appoints a Subject Expert for scrutinizing the quality of the question paper and CO's compliance of each Course. The question paper is further scrutinized by the Module Co-ordinator. The internal examination question papers are framed according to the Bloom's Taxonomy for facilitating higher levels of thinking in students. Then a report of the scrutiny is submitted to the HoD. The answer sheets are also scrutinized by the Subject Expert. For assignment and internal examination question papers, the mapping of questions to Course Outcomes is shown at the end of the question paper. Student's attendance is strictly monitored. To make the students more committed, Parent- Teacher meeting is arranged. To boost up the academic performance several Awards are given at the Institution Level.

Exam Management in Linways: Linways AMS, is used for online exam registration, hall arrangement, generation of false number consolidated mark list, grace mark & moderation. It is also used for advanced result analysis and online certificate verification. mbcet.linways.com

Preparation of QP-OBE (Autonomous): For the Autonomous batches, the End Semester Exam Question Papers are set on the basis of Bloom's Taxonomy Level. This helps in moving towards an Outcome Based Education (OBE) which transpires to good learning outcomes and continuous improvement.

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

2.6 - Student Performance and Learning Outcomes

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

POs and PSOs of the Departments have been included in the pages of the corresponding Departments in the college website www.mbcet.ac.in

The POs and PSOs are displayed in all the staffrooms, classrooms, library and laboratories.

POs and PSOs are also communicated to students via Assignment Books, lab manuals and lab records/hand books.

The Course Outcomes are laid out for each subject by the APJ Abdul Kalam Technological University as well as the autonomous curriculum, and if needed the subject expert can modify and frame it according to Bloom's Taxonomy. The Course Outcomes so framed are further reviewed by the module coordinator and the Department Quality Assurance Cell (DQAC). For theory subjects and laboratory classes, Course Outcomes are communicated by the faculty handling the subject.

The data being voluminous only samples of course outcomes are attached.

Link for COs of B.Tech and M.Tech Autonomous batches <https://mbcet.ac.in/departments/electronics-communication-engineering/syllabus/>

<https://mbcet.ac.in/departments/computer-science-engineering/syllabus/>

<https://mbcet.ac.in/departments/mechanical-engineering/syllabus/>

<https://mbcet.ac.in/departments/electrical-electronics->

engineering/syllabus/

<https://mbcet.ac.in/departments/civil-engineering/syllabus/>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

KTU batch (2019-2023):

Continuous Internal Assessment: Direct Method: Each question in the question paper is mapped to one or more course outcomes. No. of attempts and no: of students scored more than 60% of the maximum marks are calculated.

Indirect Method: Survey is conducted to check the response of students with respect to the attainment of COs. Responses above "FAIR" are considered for CO attainment. Based on the following formula, the overall CO attainment percentage is calculated.

Overall CO attainment is calculated as $CO(\%) = (0.8 \times \text{University attainment level} + 0.2 \times \text{Continuous Internal Assessment level})$.

MBCET Autonomous batches:

(i) **Direct Method:** For continuous assessment tests, tutorials, lab work, assignments, etc., every question in the question paper is mapped to a specific course outcome. The number of attempts and the count of students scoring above 60% of the maximum marks are then recorded.

(ii) **End semester examination**

(iii) **Indirect Method:** A course exit survey is administered to gather students' feedback on the achievement of Course Outcomes (COs), utilizing a five-point Likert scale.

PO assessment is done through course outcomes, co-curricular activities and indirectly through a program exit survey at the end of graduation.

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

2.6.3 - Pass Percentage of students

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

382

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://mbcet.ac.in/annual-report/

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://mbcet.ac.in/feedback/>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

MBCET strives to be a Centre of Excellence in Engineering Research, contributing to the development and advancement of global research and technology innovation initiatives for providing real-world solutions to the industry/society. Research culture is promoted in the campus by providing a high-

quality and flexible collaborative research ecosystem. College has a Research Policy which emphasizes research as a mandatory component for the academic departments. The multi-disciplinary research is also promoted for enabling innovations that offer solutions to various requirements elicited through community interactions. According to the directions issued by the UGC and given the need for aligning the academic processes and research activities on the campus with the National Education Policy 2020 (NEP 2020), College has set up a Research and Development Cell (RDC) and is in the process of developing a Central Research Lab (CRL) under RDC as a central facility. It is hoped that the establishment of RDC will enable the College to attain the targets of Aatma-Nirbhar Bharat (Self-Reliant India) by playing the catalytic role in promoting the culture of multi-disciplinary/ trans-disciplinary and translational research as envisioned in the NEP 2020. Gradually the outputs of R&D will be translated into innovations and prototypes which can be transferred to the industries for commercialization. Broader institutional networking will be facilitated through linkages with other academic, R&D, and industrial organizations. Research is made as an essential component in the activities of the faculty. Incentives are promoted for patents, publications etc

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://mbcet.ac.in/wp-content/uploads/2022/10/3.ResearchDevelopment_Policy.pdf
Any additional information	No File Uploaded

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

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

5.94

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

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

1

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

3.2 - Resource Mobilization for Research

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

8.635

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

16

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

3.2.3 - Number of teachers recognised as research guides

19

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

4

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://mbcet.ac.in/research/funded-projects/
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Innovation and Entrepreneurship Development Centre of Mar Baselios College of Engineering, Catalyst created engagement

for inspiring students. Activities like SOUTH ZONE IEDC MEETUP, Workshop on Entrepreneurship, Innovation , IDEAVERSE idea pitching competition, INNOVATIVE PROJECT SELECTION AND PATENTING ,CONVERGE hackathon, INCEPTRA WORKSHOP Idea Generation to Product Market Fit , INCEPTRA workshop by Prof. Sarju S, iTalk-2 by Mr. Gopikrishnan , iTalk on Incubation opportunities for students and faculty members .

Achievements: The project "Bicycle Tractor" got selected for funding in Idea Fest 2022 organized by Kerala Startup Mission. The team members are Henry Christudas Issac, Gokul R S Nair, A Muhammed Siddique, Sarath S, Rahul B and Saran Deny (ME), guided by Dr. Deepak G Dilip. The project "Smart Pumping Stations-SPS for uninterrupted safe drinking water to all" won Rs. 1,50,000/- from KWA Hackathon in association with KSUM, guided by Mr. Jijo Jose. Mr Shubin Shibu got selected in State level IEDC Network of Entrepreneurs and Students Team (IEDC NEST) and in "Problems of Elderly" vertical at Young Innovators Programme (YIP) by K-DISC. Mr Aaron K , Mr. Abin Abraham, Mr Abhilash George and Ms Nikita Maria Philip got selected in 'Assistive Technologies' and 'Agriculture' vertical at YIP, organized by (K-DISC) .

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://mbcet.ac.in/innovation-entrepreneurship/iedc-innovation-entrepreneurship-development-centre/

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

69

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

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

B. Any 3 of the above

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

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

3.4.2.1 - Number of PhD students registered during the year

5

File Description	Documents
URL to the research page on HEI website	https://mbcet.ac.in/research/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

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

0.107

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

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

0.124

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

599

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

17

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

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

1183972.66

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

6.13305

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The institution initiates many extension activities in the neighbourhood sensitising students to develop ethical values and to showcase their responsibilities in social issues for their holistic development, by being a part in the society. This is facilitated through department associations and other extension activities such as NSS. Interactive sessions,

walkathon, internship opportunity "Project Ganitham" for the college students to gain experience in teaching and student development , campaigns, social services, health care services such as blood donation, food donation, kit distribution, hospital premises cleaning, tribal village visit were conducted. A clean energy rally was conducted in collaboration with GoK, Kerala Development and Innovation Strategic Council (KDISC), Kerala State Electricity Board (KSEB), Clean Energy Innovation & BUSINESS Incubation Centre (CEIBIC). Energy conservation rally conducted by the clean energy mission and KSEB, unit 230 became a venue as part of the mission quiz were conducted. A campaign against Corruption and drugs in collaboration with vigilance anti corruption bureau and GoK was also organized.

Almost thirty students actively participated throughout these events. A tribute session was conducted for ganitham volunteers in the title "Synergy'23", in Collaboration with UST. These ventures helped the students to understand more about their roles and responsibilities as a part of the society.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/outreach/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	No File Uploaded
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

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

13

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

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

442

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

3

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

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

21

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

Creating a better environment for education is the main aim of our Institution. It ensures adequate availability and optimal utilization of physical infrastructure for the excellence in education through advanced technologies. An assessment of the existing infrastructure is carried out in each academic year and according to the suggestions, replacement or upgradation is done thereby enhancing innovative teaching and learning facilities. All the classrooms have good acoustic conditions with LCD projectors and internet facilities. There are 10 classrooms with smart boards and another 40 plus with multimedia projectors. There are more than one seminar halls in each department with addressing area, whiteboard, LCD projector, internet connection, sound system and cameras. One seminar hall of each department is air conditioned. Each hall has a maximum capacity of 100 students. The laboratories are well equipped with multiple sets of apparatus. A CNC machine (Turning and Milling) has been purchased. Latest configuration desktops and software are provided in computer labs. The lab attached to all Departments continuously upgraded. The Library has a wide variety of books and an adequate number of journals. Library works in two shifts and is partially automated. The Library is computerized with all the features of Library Management Systems. It maintains e-books as well. The Institution has an exam wing to house the office of the Controller of Examination and the Deputy CoEs.

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

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

The Institution gives due importance to extracurricular activities along with academic subjects for the all-round development of the students. The activities regarding this are coordinated by the Physical Education Department ably assisted

by the Students' Senate, Faculty and Staff. Besides, about 20 students Clubs/Committees/Cells/Technical Societies function on the Campus to ensure good engagement of the students in the co-curricular, extra-curricular and cultural activities. MBCET emphasizes the importance of sports as an integral part of the curriculum and provides sports facilities. The College has two courts for Volleyball and one court for Basketball. It has a multi-purpose Hall with a 3 flood light court for Shuttle Badminton, one Netball court, Yoga hall and has separate halls for Table Tennis, Chess, and Caroms. The college has a full-fledged multi gymnasium, Yoga club which aims at the physical, mental and spiritual practice and discipline. In addition, the Mar Ivanios stadium is utilized for conducting Athletic Meets. Cell for Universal Human Values is engaged in cultivating proper values among the students. To develop the cultural traits among the students, the Institution regularly carries out inter branch cultural fest called BASELIAN FEST and CROSSROADS - a National inter collegiate Cultural and Technical fest.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/departments/physical-education/facilities/

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

66

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

330.21955

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

4.2 - Library as a Learning Resource

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

Data Requirement: Provide a description of the library with

- Name of the ILMS software: KOHA ILMS version 3.12.06
- Nature of automation (full or partial): Full
- Version: 3.12.06
- Year of automation: 2014

MBCET Central library is well-equipped with latest infrastructure and well-stocked with a good collection of books. Library migrated to KOHA ILMS version 20.11 from January 2021. Our department libraries are also automated with KOHA ILMS version 3.12.06 from 2014 onwards and upgraded to 21.05 on the year 2022. From 2006 to 2014 the library functioned on INFLIBNET's SOUL s/w. From 2014 onwards library shifted to Libsoft library software. Barcode based circulation system is following with all books are classified based on DDC 20th edition.

The central library has a good collection of records including 27761 volumes and 11617 titles, 97 printed national journals, E-Journals packages such as IEEE (Institution of Electronics and Electrical Engineers)-ASPP. ASCE (American Society for Civil Engineers), ASME (American Society for Mechanical Engineers), IEI (India), Elsevier's Science Direct, E-Books from EBSCO Engineering Host (6500+ books) and DELNET Digital database, 1450 CD-ROMS and BIS codes & IRC Codes. The Digital Library have Remote Access to e-resources using Knimbus Remote access facility that can be access inMobile application also. The

library has Institutional Digital Repository using DSPACE Digital library OSS. The institution has departmental libraries for all departments having a collection of 2222 volumes. A separate computer center is integrated with Library to enable online access in addition to the campus wide Wi Fi.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://library.mbcet.ac.in/

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

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

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

30.81546

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

92

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

MBCET ITMS provides secure access to information resources to students, faculty and staff to facilitate education, research, communication facility & computing network. The ratio of computer to students is 1:4. All PC's with recent configuration are connected to Local Area Network (LAN). Access to campus wide Wi-Fi is given to faculty and students on their laptops and mobile phones. The Wi-Fi facility was updated in April 2022. College has an Internet Leased Line of 225 Mbps bandwidth, 1:1 uncompressed on optical fiber and is scalable also. All staffrooms are provided with network connected PC's and each department has software labs with computing facility for the students. All the classrooms and seminar halls have wired internet or Wi-Fi facilities Several licensed software's are available to each department. Video lectures for the effective Teaching -Learning processes are captured by the facilities provided by ITMS. A Central Computing Facility (CCF) is also working in the Institution to provide central site for hands on computer training with 65 high performance computers. Dual boot operating systems are available in the systems. The college has a provision of central storage space and email service for all staff. Student Management System, Course Management System, Digital Library, Biometric attendance system, streaming media server, E-mail server and other campus management software's are aided by ITMS department of our College. My Payroll Master, a new software to manage staff attendance functions since 30th March 2022. The Academic Management System is cloud based.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/wp-content/uploads/2022/10/6.IT-Policy.pdf

4.3.2 - Student - Computer ratio	
Number of Students	Number of Computers
2041	653
File Description	Documents
Upload any additional information	View File
4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	
A. 250 Mbps	
File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File
4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	
D. Any one of the above	
File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1ScnLxLjg6k0lPRLr5t1IS10AHBBGEEDz/view?usp=sharing
List of facilities for e-content development (Data Template)	View File
4.4 - Maintenance of Campus Infrastructure	
4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)	
112.85791	

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

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

Campus management is looked after by Bursar. The Chairman of the Parent body entrusts the Bursar with the above task. Annual maintenance is done every year including replacement of damaged items. The Electrical wing of the college takes care of the repair, maintenance or replacement of electrical fittings. The labs updation and maintenance, installation of new machineries for replacement of old systems are done as per the requirement of Departments. The Information Technology Management System (ITMS) takes care of all the computer labs and IT enabled facilities. The Librarian takes care of library and routine affairs over major maintenance and updation work are executed by the Bursar. The college buses are maintained properly by the Vehicles unit. The sports complexes of the College, the gymnasium and the basketball court, tennis court etc. are managed by the Physical Education director. The Management and maintenance of the boy's hostel and the ladies hostel are done by the Bursar and the Assistant Bursar. An Estate Manager and the House keeping Staff both male and female assist the Bursar in the execution of all such works. A Full time Counsellor takes care of the counselling needs of the students while the Nursing Superintendent is at the service of those in need at the Nursing Station. The structure of the procedures and policies of maintenance is represented in the flow chart given in the website.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://mbcet.ac.in/resources/maintenance-cell/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

282

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

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

110

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://mbcet.ac.in/students/student-club/ , https://mbcet.ac.in/home/professional-societies/ ,
Details of capability development and schemes	View File
Any additional information	View File

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

340

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

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	A. All of the above
---	----------------------------

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

5.2 - Student Progression

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

191

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

5.2.2 - Number of outgoing students progressing to higher education

22

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

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

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

3

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

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

15

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

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

MBCET College Senate, the representative body of all students consists of a Chairperson, Vice Chairperson, General Secretary, Magazine editor, Arts Club Secretary, two Councilors to the election field of University Union General Council, two girl students representing all the girl students in the College, one

student representative from each branch and two Staff Advisors.

Administrative bodies/committees of the Institution with student representation include Course Committees and Class Committees as directed by the University. The Committee includes 4 Student Representatives. All branches of study will have class committees for every Semester constituted by the respective Heads of Departments. This committee has two Student Representatives nominated by the Head of the Department.

The Innovation and Entrepreneurship Development Centre has an executive committee with 14 student members and one faculty member designated as the Nodal Officer.

Under the UBA programme of MHRD, Government of India, the UBA cell of the college functions with a Project Coordinator, ten student representatives and one faculty representative from each Department.

Professional bodies namely IEEE, IET, ISTE, CSI, ACM, ASCE and ASME with student representation are actively functioning in the College. In the Internal Quality Assurance Cell, the Senate chairperson is included as the student representative.

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

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

48

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

5.4 - Alumni Engagement

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

MBCETAA (Mar Baselios College of Engineering and Technology alumni association) was conceived with the help and co-operation of the Principal, and Management of the College. The Association was formally inaugurated on 25 January, 2009. The alumni association is registered as a society in accordance with the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act, 1955. MBCETAA supports the Institution in fields of curriculum development, placement and training, social obligations, among others. MBCETAA Middle East Chapter consisting of Alumni from UAE, Oman, Qatar, Saudi Arabia is functioning.

During the year 2022-23, MBCETAA sponsored an amount of Rs. 40,000/- for an M.Tech student and an amount of Rs. 1,20,000/- for a B.Tech student towards their fee since they are financially backward.

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

5.4.2 - Alumni's financial contribution during the year

C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

- The vision and mission of the institution envisages improving the efficacy of governance making it more expedient. The Statutory Bodies meet on an average two times a year

- Heads of Departments and six Deans - Dean Administration, Dean Academic, Dean Research & Consultancy, Dean PG, Dean Student Affairs, Dean Corporate Relations, for better governance
- Office of the Controller of Examinations along with two Deputy Controller of Examinations
- Separate building for Exam wing
- The Academic Council and Board of Studies
- Efficient Office administration
- E-bulletin for publicizing the activities of the Institute, to disseminate its vision and mission
- Information dissemination through social media
- Proper alignment of Strategic Plan and the Programme Educational Objectives with the Vision and Mission of the College
- Maintains good governance practices and equity approach in empowering faculty in decision-making process through membership in statutory bodies and governance
- College aims at becoming a globally renowned Centre of Excellence in engineering and technology, both for education as well as research. The Strategic Plan of the Institution to attain quality and infrastructure had enabled the conferment of the "Autonomous Status" by the UGC and the affiliating University in 2020. Involvement of teachers in governance is ensured through decentralization of authority to various levels and their membership in decision-making bodies. The attainment of the quality needed for the accreditation manifests the commitment to the vision

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/about/administration/

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

The Management has created multiple levels in the administration - The Principal & The Vice Principal, and Deans. The roles and responsibilities of the Deans have been defined with a view to decentralize the Management functions.

The College as an organization practices the decentralization of the power and participative decision making in the management of the activities and institutional development. Continuous review and improvements are done to facilitate inclusivity and involvement in management of the Institute.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/about/administration/

6.2 - Strategy Development and Deployment

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

In the Strategic Plan the Goal 3 was stated as "To create an environment for the students to succeed at their highest level through high quality academic programs, co-curricular and extra-curricular activities and community outreach programmes". The objective articulated for attaining this goal is to "Develop a culture to serve the society". For this there were multiple strategies of which one of them was "Arrange inspirational activities encouraging students for community service". Each Department has a philanthropic wing along with the professional associations. It's mandatory for the students

to do charitable activities like coding skills, helping orphanages, visiting old age homes, providing study materials for the school going children of the financially weaker families, constructing the houses for the needy persons, electrification of the houses including wiring, cleaning the beach and recreation centres to remove plastic, conducting environment sensitization programmes for public, conducting community surveys, covid awareness, distribution of the sanitizer dispenser to Government schools and so on through their own initiatives under the guidance of faculty and staff. These are apart from the community service activities of the National Service Scheme Unit of the College.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://mbcet.ac.in/about/strategic-plan/
Upload any additional information	No File Uploaded

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

MBCET is administered by the Malankara Catholic Church through the charitable Society namely Malankara Catholic Educational Society which is registered with the Government of India. MBCET campus provides an ideal milieu for academic pursuits. The Governance system includes the Governing Body chaired by the Patron himself. Functions of the top management are discharged through the Bursar and Assistant Bursar. They take care of Infrastructure development, Appointments and Promotions, Finance and Accounts, Hostels, Bus, Canteen, Stores, House-keeping, e-governance and IT Management and Services. Principal is the Head of all academic matters and the general administration. The Deans and the Heads of the Departments form the Academic lead team supported by the Office Superintendent, Controller of Examinations, Librarian and so on. The Statutory bodies of Academic Council, Boards of Studies and Finance Committee provides the complete system for the College as an autonomous institution. The Organogram of the Institution depicts the delegations adequately.

File Description	Documents
Paste link to Organogram on the institution webpage	https://mbcet.ac.in/about/administration/
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

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

For the Teaching faculty, the facilities for National Pension Scheme, Group Insurance, Accidental Insurance have been implemented and for the Non-teaching staff, statutory EPF and ESI scheme have been implemented. Besides this, in case of emergencies financial support is given to those who are in need. As a social responsibility, the Management and Teaching faculty contribute generously to meet the requirements of the needy such as construction and /or renovation of houses. Financial help is given to support the medical expenses of those who are in urgent need. For the House-keeping Staff mandatory ESI scheme is there.

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

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

37

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

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

9

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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

75

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal audit is done by the Management through its representatives namely, the Bursar and the Assistant Bursar. They are supported by the administrative section of the Institution especially the Superintendent and the Head Accountant. All the bills and vouchers are audited by them and the entire accounts are preserved digitally as part of e-governance to ensure transparency and accountability.

Annual financial audit is statutory as per the regulations of the university and AICTE. Accordingly, this year the same has been conducted by a competent reliable and established external agency. The audit has been conducted in accordance with the Government norms.

Besides these this year Inter Departmental Internal Audit was conducted. Again, Audit by the Kerala Technological University Experts also was held. In addition to this, an External Team of Experts conducted Academic and Administrative Audits.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/wp-content/uploads/2023/12/auditors-report-2022-23.pdf

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

3

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

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

- Submitted the KSHEC (Kerala State Higher Education Council) Survey 2022 of IT Infrastructure facilities on 15-8-2022. Also Submitted the details of IIC (Institute Innovation Council) activities in the MHRD portal which in turn will be reflected for Atal Ranking of Institutions on Innovation Achievements (ARIIA2022). ARIIA data was submitted on 30th September 2022. Also submitted details for The National Institutional Ranking Framework (NIRF) on 12th Jan 2023.
- As a part of acting as a nodal agency of the Institution for coordinating quality-related activities, IQAC verified the seven-Faculty Development Programmes (FDPs) conducted by the various departments
- Prepared the Annual Quality Assurance Report 2021-2022 (AQAR) of the HEI based on the quality parameters / assessment criteria developed by NAAC in the prescribed format and was approved by IQAC and submitted on 17th Dec 2022. Conducted Internal and External Academic and Administrative Audits and submitted the reports to University and UGC.
- NBA Internal Audits were conducted from 10th October 2022 to 22 nd October 2022. NBA. Peer team visit was on 28 th , 29 th and 30 th October 2022.The exit meeting was on 30th October 2022.

Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes for the year 2022-2023 were initiated during May 2023 .

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/research/funded-projects/

6.5 - Internal Quality Assurance System

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

- Submitted the KSHEC (Kerala State Higher Education Council) Survey 2022 of IT Infrastructure facilities on 15-8-2022. Also Submitted the details of IIC (Institute Innovation Council) activities in the MHRD portal which in turn will be reflected for Atal Ranking of Institutions on Innovation Achievements (ARIIA2022). ARIIA data was submitted on 30th September 2022. Also submitted details for The National Institutional Ranking Framework (NIRF) on 12th Jan 2023.
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Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes for the year 2022-2023 were initiated during May 2023 .

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/igac/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The Teaching Learning Centre (TLC) has been established by the Management for focusing on the preparation of teachers for delivering the contents effectively and for their continuous professional development. It also sets the ecosystem for making the learning more exponential and immersive for the students. Training of the teachers are regularly conducted. The induction of newly appointed teachers, their training, etc. are also pursued by the TLC.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://mbcet.ac.in/teaching-learning/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://mbcet.ac.in/annual-report/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

The Women Studies Unit, IEEE, ISTE SHE cells, and two NSS units actively function towards gender-specific programmes. Security measures have been taken to create a safe environment for girl students to be free from ragging and sexual harassment. Grievance Redressal Committee has been setup for students and staff to log grievances. The anti-ragging committee ensures a ragging-free environment which is up and address by the principal and faculty representatives. Separate washrooms are provided for both boys and girls. To ensure the safety and security of our students, a security system is available with supervision and a CCTV surveillance system throughout the whole campus. The hostel timings followed by students are strictly monitored by tutors and wardens for the safety of the female students. There are various women secretaries in various clubs, sports, associations, the hostel council, and the student council. Counselling sessions were organised by the institution with the help of the medical institute under the same management in order to create awareness of gender sensitivity. Counsellors continuously provide guidance on a one-to-one basis for the entire class.

Facilities Available for women on campus

A centralized Nursing Station with a full time Nursing Superintendent.

Counselling facility with a permanent counsellor

Common rooms are attached to each department.

Safety and security are ensured through 24/7 security personals.

Surveillance cameras function in the entire area of the campus.

Housekeeping staff are deployed for any emergency as per requirement.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://mbcet.ac.in/wp-content/uploads/2022/11/22.Gender-Equality.pdf , https://mbcet.ac.in/internal-complaints-committee-icc/

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

A. Any 4 or All of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

The college has a Waste Management Cell ensures effective management of the various types of wastes generated in the premises through sustainable practices in converting Waste to resource. Regular monitoring, conduct of awareness sessions for the stakeholders, encouraging innovative ideas and projects towards efficient disposal of waste are undertaken by the cell and various departments as when required

Solid Waste Management Methods:

1. The Biogas Plant:

A 80 m³ fixed dome biogas plant is attached to the Mar Aprem Hostel. The food waste from MBCET canteen and hostel is deposited in this biogas plant is used for

cooking in hostel.

Material Recovery Facility:

The different types of waste collected from the college are segregated in the Material recovery facility. Different color bins are used for waste collection. The waste segregated are disposed through local vendors.

Incinerator:

An incinerator placed near MRF is used for burning dry waste. Small incinerators are placed in ladies toilet for napkin disposal.

E-Waste Disposal:

E-waste collected from various departments are disposed to e-waste collection agency. Desktops that can be repaired or reused are given to needed students.

Chemical waste:

Chemical waste from lab is collected and disposed safely in Chemistry lab of Mar Ivanios College.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge

A. Any 4 or all of the above

Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	
--	--

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

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:	A. Any 4 or All of the above
<ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping 	

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

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

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

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

<p>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.</p>	<p>A. Any 4 or all of the above</p>
--	--

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	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, socio-economic and other diversities (within a maximum of 200 words).

Inclusive Environment

The institution has been setup with minimum tampering to the geographical structure of the terrain.

Tolerance

Tolerance to nature- We preserve the water bodies intact

Tolerance to humans- Though established and managed by a particular religious community, people of other religion, caste, creed, belief and custom also are accommodated without distinction.

Regional considerations are taken in the Institution for account of admissions (economically backward students are given fee concession).

To provide harmony among staff, get together, recreation and tours are arranged with a financial support up to 50% to the needy staff.

Silent prayer which is practiced daily shows the respect to all religions without highlighting any particular one.

Socio economic aspects

The institute wholeheartedly support the housing charity program for the benefit of economically and socially backward people with an amount of Rs.10 lakh every year.

Various departments and cells such as NSS, Sparsham, Thanal etc. of the Institute has provided food and necessities to the old age homes, hospitals and streets.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

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

Several classes, programmes and outreach activities have been conducted to sensitize the students and employees of the institution to constitutional obligations, values, rights, duties and responsibilities of citizen.

Constitutional obligation - The institution prompts its stakeholders to abide the Constitution and respect its ideals and institutions, the National Flag and the National Anthem through its curricular and co-curricular initiatives.

- 'Constitution of India' is taught as a non-credit course to the second year students.
- The preamble of the Constitution is read in every classes on the Constitution Day.
- MBCET have adopted the integrity pledge as Organization and staff pledged as Citizen and is committed to uphold the highest standards of honesty, integrity and to follow probity and rule of law in all walks of life
- Independence Day and Republic Day were celebrated.

Values - UHV cell of MBCET is active and motivate all staff to attend the FDP, an initiative of AICTE.

Duties and Responsibilities of Citizen - Protect and improve the natural environment including forests, lakes, rivers and wildlife and to have compassion for living creatures and to Safeguard public property and to abjure violence the following initiatives have been taken by the various departments and cells of MBCET.

- Beach clean-up in collaboration with Sustera foundation
- Cloth Donation Campaign 2.0
- Anti-Narcotics Pledge
- NEC Karuthal
- Republic Day celebrations
- World Rivers Day
- Food Donation on NSS Day

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	No File Uploaded
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

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

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

MBCET celebrate National and International commemorative days, events and festivals through its various Cells/Units to aware the students and staff the significance and promote collective responsibility towards the nation and universe.

The following commemorative days are observed and celebrated

- Independence Day
- Republic Day
- International Yoga Day
- World Population Day
- World Day for International Justice
- Teachers Day
- Global Literacy Day
- World Suicide Prevention Day
- World First Aid Day
- International Peace Day
- NSS Day

- World Rivers Day

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Scholarships for Engineering aspirants to encourage the aspirants in the field of Engineering and Technology so as to develop their skills for the sustainable growth of the society. This scholarship is issued to the best outgoing students of schools to find the Engineer within them,

Student Innovations Excellence Through Best Project Awards to promote student innovations and team spirit by enabling competition in the project work among the students so that they will be inclined to learn many things beyond the curriculum

File Description	Documents
Best practices in the Institutional website	https://mbcet.ac.in/wp-content/uploads/2023/12/Best-Practice.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The college won the certificate of Excellence with Institutional Grade 'A' under the 'Gold' category. The certificate was issued as part of R-world Institutional Ranking, by the "Sustainable Institutions of India Green

rankings2023". The award was given on the basis of an Institutional self study report according to the various criteria fixed by them, regarding the sustainable practices of the Institution (namely from green initiatives of ISTE, Energy management cell, waste management cell, environment cell, water management cell, NSS, Nature clubs etc)

File Description	Documents
Appropriate link in the institutional website	https://mbcet.ac.in/wp-content/uploads/2023/12/INSTITUTIONAL-DISTINCTIVENESS.pdf
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

Start a Centre for Computational Intelligence and Cyber Security

2. Start a Centre for Professional Development and Lifelong Learning

3. Increase intake of core branches like B. Tech Mechanical Engineering by 50%

4. Start one Industry supported Laboratory each in the Civil and Mechanical Engineering areas.

5. Start one Research Laboratory in Electric vehicles

6. Start a Non-Destructive testing Lab

7. Start one training facility for telecom related technologies in association with BSNL

8. Modernize the Workshop to have facilities for Additive Manufacturing and 3D Printing technologies

9. Conduct annual External Peer evaluation for the academic and administrative processes along with the regular internal audit

10. Conduct training programmes for junior students for placement and endeavour to secure 100% placement for final year students

11. Conduct one Faculty Development Programme per Semester per

Department

12. Secure 100% admission in all the Programmes of study
13. Implement revised curriculum for the B. Tech Programmes
14. Strengthen International relations and collaborative research/ exchange programmes
15. Create Deanship for Alumni Matters and strengthen Alumni relations portfolio
16. Develop playfields for more games like Lawn Tennis, Squash, etc.
17. Modernize the UG laboratories of the major Departments to cover advanced topics as required in the revised curriculum.
18. Enable students to work outside Kerala and India and have courses that offer flexibility to PG students.
19. Adoption of NEP 2020