



# **YEARLY STATUS REPORT - 2023-2024**

## **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. S Viswanatha Rao**
- Designation **Professor**
- Does the institution function from its own campus? **Yes**
- Phone No. of the Principal **04712545868**
- Alternate phone No. **04712545869**
- Mobile No. (Principal) **9446322590**
- Registered e-mail ID (Principal) **mbcet@mbcet.org**
- Address **Mar Ivanios Vidyanaar, Nalanchira**
- 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. Nisha G K**
- Phone No. **04712545868**
- Mobile No: **9495340629**
- 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/2024/02/aqac-2022-23.pdf>

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

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

**5.Accreditation Details**

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

**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
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

**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 compliance to the decisions taken **Yes**

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)**

Under the Statutory Reports Cell of IQAC, the KSHEC (Kerala State Higher Education Council) Survey 2023 of IT Infrastructure facilities was submitted on 22-10-2023. Also submitted the details for The National Institutional Ranking Framework, NIRF 2024 on 17th January 2024 and NIRF Innovation by 29th Jan 2024. Also submitted the details for The Kerala Institutional Ranking Framework (KIRF) on 27th March 2024.

Prepared the Annual Quality Assurance Report 2022-2023 (AQAR) of the HEI based on the quality parameters / assessment criteria developed by NAAC in the prescribed format and was approved by IQAC during the meeting held on 18.12.2023 and submitted on December 31st 2023.

Internal Academic Audit, Internal Administrative Audit, Academic audit as per the University's norms and External Audits (Academic and Administrative audits) by a peer team comprising the leading academicians were conducted.

As a part of acting as a nodal agency of the Institution for coordinating quality-related activities, IQAC verified the eight Faculty Development Programmes (FDPs) conducted by the various departments during the internal administrative audit.

Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes for the year 2023-2024 were initiated during May 2024

**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
Start a Centre for Computational Intelligence and Cyber Security	Started functioning from 14-5-2024 using the available facilities. Dr Tessy Mathew, Professor, Dept. of CSE is the Head of this centre.
Start a Centre for Professional Development and Lifelong Learning	Started functioning from 14-5-2024 using the available facilities. Dr Nidhi M.B., Professor, Dept. of ME is the Head of this centre. Dedicated facilities need to be created for deriving the full benefit.
Increase intake of core branches like B. Tech Mechanical Engineering by 50%	For the 2023 admission, intake of B Tech in ME is increased from 60 to 90.
Start one Industry supported Laboratory each in the Civil and Mechanical Engineering areas	Different proposals are still under consideration.
Start one Research Laboratory in Electric vehicles	EV lab was initiated in February 2022 and the project from the Energy Management Centre was started in 2023.
Start a Non-Destructive testing Lab	One equipment is already there in the Department. Other equipments are to be procured so that it will be useful for the Research activities and consultancy.
Start one training facility for telecom related technologies in association with BSNL	College has signed an MoU with BSNL. However, starting a training facility for telecom related technologies has not been feasible yet.
Modernize the Workshop to have facilities for Additive Manufacturing and 3D Printing technologies	In the Dept. of Mechanical Engineering, 3D Printer was purchased for modernisation and as a part of Manufacturing and construction Practices Lab of 2023 Curriculum.

<p>Conduct annual External Peer evaluation for the academic and administrative processes along with the regular internal audits</p>	<p>The External Academic Audit by the APJ Abdul Kalam Technological University was conducted on 6-7-2023 by the External Auditors Dr Anitha C.S. and Mr Rajesh R. who were appointed by the University. The Progress report of MBCET 2022-2023 to UGC was audited by External peer team members Dr Sukesh Kumar A, Principal (Retd) Govt Engg College Palakkad and Prof. (Dr) Manoj T. Nair, Professor, Indian Institute of Space Technology on 3rd August 2023. The External Administrative Audit for the financial Year 2021-2022 was conducted on 4th August 2023 by Dr Sukesh Kumar A, Principal (Retd) Govt Engg College Palakkad and Prof. (Dr) Manoj T. Nair, Professor, Indian Institute of Space Technology. Conducted external peer evaluation for academic and administrative processes to improve quality and efficacy</p>
<p>Conduct training programmes for junior students for placement and endeavour to secure 100% placement for final year students</p>	<p>Placement Training Programs are arranged by the Training and Placement cell of the College. PRAGMATIX, one of Kerala's leading training and development service providers for educational institutions provided the main training. Placement percentage based on the eligible students of the 2020-2024 B Tech batch are as follows CE - 30% CS - 89% EC - 81% EE - 58% ME - 40% 357 offers were there. 234 students got placed. <math>234/473 = 50\%</math> of 2020-2024 B Tech batch got placed. In spite of the overall</p>

	slowdown in recruitment and absence of bulk recruiters, the placement figures have been encouraging with more companies visiting the campus including those in core areas.
Conduct one Faculty Development Programme per Semester per Department	During 2023-2024, conducted one FDP per Year per Department.
Secure 100% admission in all the Programmes of study (2023 admission details to be collected from Office)	CE - 74 / 126, CS -126 / 126, CT - 62 / 63, EC -125 / 126, EE - 63 / 63, EL - 62 / 63, ME -75 / 95, Total 582 / 662 = 89%
Implement revised curriculum for the B. Tech Programmes	The revised 2023 curriculum has been implemented for all the seven B.Tech Programmes.
Strengthen International relations and collaborative research/ exchange programmes	To strengthen the International relations, Dr Jayakumari J. is appointed as the International Liaison Officer on 30-05-2024. Various options for establishing international collaboration are being explored.
Create Deanship for Alumni Matters and strengthen Alumni relations portfolio.	Created the post of Assistant Dean (Alumni Affairs) with Independent Charge to strengthen the Alumni relations on 30-05-2024. Ms. Charivil Sojy Rajan, Asst. professor, Dept. of EEE is the Asst. Dean(Alumni Affairs).
Develop playfields for more games like Lawn Tennis, Squash, etc.	A Lawn Tennis Court has been built in front of the block Thakshashila as an addition to the already existing sports and games facilities in the College.
Modernize the UG laboratories of the major Departments to cover advanced topics as required in the revised curriculum	In ECE Department, a new lab with 65 computers was made operational on 20-11-2023. This would help more students acquire programming skills and use of

	modern software tools.
Enable students to work outside Kerala and India and have courses that offer flexibility to PG students	This point will be addressed in the next PG curriculum revision in 2025 The process to start a new MTech course on Environmental Science and Engineering was initiated and the course is approved by AICTE during May 2024 and will be started in the academic Year 2024-2025
Adoption of 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	06/12/2024

**14. Was the institutional data submitted to AISHE ?** Yes

- Year

## Part A

### Data of the Institution

<b>1.Name of the Institution</b>	<b>Mar Baselios College of Engineering and Technology</b>
• Name of the Head of the institution	<b>Dr. S Viswanatha Rao</b>
• Designation	<b>Professor</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone No. of the Principal	<b>04712545868</b>
• Alternate phone No.	<b>04712545869</b>
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<b>3.Website address (Web link of the AQAR (Previous Academic Year))</b>	<a href="https://mbcet.ac.in/wp-content/uploads/2024/02/aqac-2022-23.pdf">https://mbcet.ac.in/wp-content/uploads/2024/02/aqac-2022-23.pdf</a>				
<b>4.Was the Academic Calendar prepared for that year?</b>	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://mbcet.ac.in/academic-calendar/">https://mbcet.ac.in/academic-calendar/</a>				
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of the major Departments to cover advanced topics as required in the revised curriculum	with 65 computers was made operational on 20-11-2023. This would help more students acquire programming skills and use of modern software tools.
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Adoption of NEP 2020	Process initiated on implementing new initiatives under NEP 2020.
<b>13.Was the AQAR placed before the statutory body?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name of the statutory body	Date of meeting(s)
College Council and IQAC	06/12/2024
<b>14.Was the institutional data submitted to AISHE ?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Year</li> </ul>	
Year	Date of Submission
2024	04/04/2024
<b>15.Multidisciplinary / interdisciplinary</b>	
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. The 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 prescribed for the college's digital academic management system.

#### **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 NSQF. Topics like Professional Communications, 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 as a Tier 1 institution. 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. The college has been using the online tools in order to supplement the classroom/laboratory based teaching-learning. 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 20

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**2.Student**

2.1 2034

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 561

Number of outgoing / final year students during the year:



File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3

**1406**

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

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 3.Academic

3.1

**499**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2

**163**

Number of full-time teachers during the year:

## Extended Profile

### 1.Programme

1.1 20

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 2.Student

2.1 2034

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 561

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3 1406

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

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 3.Academic

3.1 499

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2	163
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3	144
Number of sanctioned posts for the year:	
<b>4.Institution</b>	
4.1	120
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	67
Total number of Classrooms and Seminar halls	
4.3	899
Total number of computers on campus for academic purposes	
4.4	1563.88
Total expenditure, excluding salary, during the year (INR in Lakhs):	
<b>Part B</b>	
<b>CURRICULAR ASPECTS</b>	
<b>1.1 - Curriculum Design and Development</b>	
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.	
<p>Mar Baselios College of Engineering &amp; 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</p>	

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	No File Uploaded
Link for additional information	<a href="https://mbcet.ac.in/wp-content/uploads/2020/10/PO-PEO-PSO.pdf">https://mbcet.ac.in/wp-content/uploads/2020/10/PO-PEO-PSO.pdf</a>

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

10

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

326

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	<a href="#">View File</a>
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

62

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

13

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

## 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

Our institution is dedicated to integrating cross-cutting issues

such as Professional Ethics, Gender, Human Values, and Environment and Sustainability into the curriculum, in alignment with NAAC Criteria 1 for quality assurance. Professional Ethics is embedded through case studies and lectures, which help instill integrity and accountability in students, preparing them for ethical decision-making in their careers. Gender sensitivity is fostered by invited talks addressing key gender issues, promoting awareness and equitable practices. Human Values are emphasized to enhance character development, fostering compassion and responsibility. The inclusion of a course on Universal Human Values in the curriculum is a significant initiative to cultivate strong moral values. Community service projects further deepen students' understanding of societal challenges and the importance of empathy.

Our institution's policies, including the code of conduct, gender equity, and grievance redressal policies, address these concerns. The Grievance Redressal Committees for staff and students, and the Women's Grievance Redressal Committee, are established as per government guidelines to resolve issues effectively. These policies are available on the website to ensure transparency. Various clubs and technical societies, such as IEEE, IET, and Music Club, organize co-curricular activities to highlight these values. The Environment and Sustainability focus includes Environmental Science in the first year, and the institution's Environment Management Cell oversees initiatives like waste, water, and energy management, promoting sustainability through events like "Trash to Art."

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	<a href="#">View File</a>
Any additional information	No File Uploaded

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

70

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	No File Uploaded

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

1331

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	No File Uploaded

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

684

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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	<a href="https://mbcet.ac.in/feedback/">https://mbcet.ac.in/feedback/</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

<b>1.4.2 - The feedback system of the Institution comprises the following</b>	<b>A. Feedback collected, analysed and action taken made available on the website</b>
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File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://mbcet.ac.in/feedback/">https://mbcet.ac.in/feedback/</a>
Any additional information	<a href="#">View File</a>

## 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

596

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

##### 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)

113

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/wp-content/uploads/2022/11/B-Tech-Regulations-2020-MBCET_12.01.2022_Final_Website.pdf">https://mbcet.ac.in/wp-content/uploads/2022/11/B-Tech-Regulations-2020-MBCET_12.01.2022_Final_Website.pdf</a>

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2024	2673	163

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 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	<a href="https://mbcet.ac.in/teaching-learning/">https://mbcet.ac.in/teaching-learning/</a>

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	<a href="https://mbcet.ac.in/teaching-learning/teacher-learning-centre/">https://mbcet.ac.in/teaching-learning/teacher-learning-centre/</a>
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

122

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

### 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.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

163

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	No File Uploaded

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

52

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

**1425**

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### **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**

**30.73**

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

**0.167**

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
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. Students' attendance is strictly monitored. To make the students more committed, Parent-Teacher meetings are arranged. To boost 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.

Preparation of QP-OBE (Autonomous): 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	<a href="https://mbcetv4.linways.com/">https://mbcetv4.linways.com/</a>

## 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](http://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.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Link for additional Information	<a href="https://mbcet.ac.in/">https://mbcet.ac.in/</a>

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

**CO Assessment:** (i) Direct Method (ii) End semester examination (iii) Indirect Method If the percentage of students scoring above 60% of the maximum marks exceeds 80%, the score is designated as 3, percentages between 70 and 79.9, the score is 2; percentages between 60 to 69.9, the score is 1. Score 0 is assigned for percentages less than 60. In indirect assessment, if the overall percentage of students providing ratings of Good, Very Good, or Excellent surpasses 80%, the score is assigned as 3. For percentages between 70 and 79.9, the score is 2, and for percentages between 60 to 69.9, the score is 1. CO attainment (out of 3) = 50% of continuous assessment score + 40% of end semester examination score + 10% of course exit survey score. PO assessment through course outcomes and PO assessment through other activities are done. Indirect method of PO assessment through exit survey for final year students at the conclusion of their B.Tech program. Total Assessment of Programme Outcomes: PO attainment (out of 3) = 80% of assessment score from Courses + 10% of assessment score from co-curricular and extra curricular activities + 10% of programme exit survey score.

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

**392**

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

### 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. The College has a Research Policy which emphasizes research as a mandatory component in all departments. The multi-disciplinary research is 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). Intel Unnati research lab, Microbiology and Plumbing laboratory was set up for academic and research purposes. Incentives are promoted for patents and publications. Establishment of RDC will eventually enable the College to attain the targets of Aatma-Nirbhar Bharat (Self-Reliant India) by playing the catalytic role in promoting the culture of multidisciplinary / trans-disciplinary and translational research as envisioned in the NEP 2020. Gradually outputs of R&D will be translated into innovations and prototypes which can be transferred to industries for commercialization. Broader institutional networking will be facilitated with other academic, R&D, and industrial organizations.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://mbcet.ac.in/wp-content/uploads/2022/10/3.ResearchDevelopment_Policy.pdf">https://mbcet.ac.in/wp-content/uploads/2022/10/3.ResearchDevelopment_Policy.pdf</a>
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)

8.59285

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	No File Uploaded

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

8

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
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)

6.23328

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

#### 3.2.2 - Number of teachers having research projects during the year

9

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://mbcet.ac.in/research/">https://mbcet.ac.in/research/</a>
List of research projects during the year	<a href="#">View File</a>

#### 3.2.3 - Number of teachers recognised as research guides

25

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="https://keralaenergy.gov.in/">https://keralaenergy.gov.in/</a> , <a href="https://ktu.edu.in/">https://ktu.edu.in/</a> , <a href="https://www.utm.my/">https://www.utm.my/</a>
Any additional information	<a href="#">View File</a>

### 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.

MBCET clinched the title of Top Campus 2023 in the Mulearn Annual Awards. Team Codeify has emerged as the Top Learning Circle in the State. MBCET reached 1 million karma points, signifying excellence in education and research.

Catalyst Mar Baselios IEDC conducted an Innovation workshop on Idea Generation to Product Market Fit. An Entrepreneurship workshop on How to launch your startup An italk on Progress Mindset and Perseverance which emphasized the importance of being consistent in an entrepreneurial journey. Talk on Incubation opportunities for students and faculty members on how the IEDC incubation centers help a student to turn his dream start-up into reality. A women-exclusive workshop and idea competition conducted by Catalyst IEDC and eNIX MBCET. Problem Solving Quest CHALLENGE X, a 9 daylong event was one of IEDC's flagship events. MBCET hosted the SIH Prelims Internal Hackathon Bootcamp RELEVANT Recruitment of Emerging Leaders Event of IEDC 2023 was conducted. Catalyst IEDC, in collaboration with

MuLearn, organized Karma Hunt. Catalyst IEDC hosted a Figma design talk session INCEPTRA, workshop on Ideation, idea pitching and various talk sessions were conducted focusing on communication, while Imagine emphasized critical problem analysis and creative solution generation through Innovation. MBCET in partnership with IEEE Robotics and Automation Society (RAS) Kerala Section, IEDC MBCET, Kerala Knowledge Economy Mission, and NIELIT Calicut, organized a 5-day boot camp focused on drone technology.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/innovation-entrepreneurship/iedc-innovation-entrepreneurship-development-centre/">https://mbcet.ac.in/innovation-entrepreneurship/iedc-innovation-entrepreneurship-development-centre/</a>

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

45

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

2

File Description	Documents
URL to the research page on HEI website	<a href="https://mbcet.ac.in/research/">https://mbcet.ac.in/research/</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded

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

0.1595

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	No File Uploaded

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

0.233

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.knimbus.com/user#/home">https://mbcet.knimbus.com/user#/home</a>

### 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

59

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 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

4

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
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)

29.36739

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<a href="#">View File</a>
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

1.14400

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

### 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 Outreach team of Mar Baselios College of Engineering and Technology (MBCET), has been consistently committed to contributing towards social welfare. The activities conducted by ARDRAM, the outreach team of Mechanical Department of MBCET includes the Food distribution drive and Children's home support drive for financial and material support focussing on aiding children with disabilities and those in need at Providence Home was done. Sparsham the outreach activity of the Department of Computer Science and Engineering essential items were given to AGAPE Children's Home. Thanal the social service wing of the



Department of Civil Engineering made a visit to CH Mohammed Koya Memorial State Institute for the Mentally Challenged. Students and faculties also visited the Gandhi Bhavan in Pathanapuram. As part of outreach program, the ECE department provided monetary support to a dialysis patient. Onam kits were distributed to the supporting staff of our college. Bags were distributed to the needy students. A mobile phone was donated to a nursing student in Good Shepherd College. The outreach team Chirag of the Electrical department hosted a blood donation camp and food donation camp. Illumina in association with EEE 2016-20 Alumni Batch sponsored the electrification works of a house at Mannanthala. The Outreach wing of Science and Humanities Department in association with NSS unit of MBCET 'Karuthal', visited Chonanpara, a small tribal village in Velland block in Thiruvananthapuram district on March 2024 and participated in charity activities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/outreach/">https://mbcet.ac.in/outreach/</a>

### 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

9

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
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)

14

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

777

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.7 - Collaboration

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

11

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	No File Uploaded

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

23

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
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 condition with LCD projectors and internet facilities. There are 11 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/resources/">https://mbcet.ac.in/resources/</a>

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. It helps the students not only to improve their academic performance but also to explore their interests and create broader perspectives. These activities are

coordinated by the Physical Education Department ably assisted by the Students' Senate, members of the 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 (indoor and outdoor) . The College has two courts for Volley ball and one for Basketball. It has a multi-purpose Hall with a 3 flood light court for Shuttle Badminton, one Net Ball court and a Yoga hall and has separate halls for Table\_Tennis, Chess, and Caroms. The college has a full-fledged 6 station -multi gymnasium, and a 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 carries out inter branch cultural fest called BASELIAN FEST and CROSSROADS - a National inter collegiate Cultural and Technical fest is conducted annually.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://mbcet.ac.in/departments/physical-education/facilities/">https://mbcet.ac.in/departments/physical-education/facilities/</a>

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

67

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

249.87224

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
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)

- Name of the ILMS software: KOHA ILMS version 21.11
- Nature of automation (full or partial): Full
- Version: 21.11

Year of automation: 2014

MBCET Central library is well-equipped with the latest infrastructure and well-stocked with a good collection of books. Library migrated to KOHA ILMS version 21.11 from January 2024. 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 the library shifted to Libsoft library software. On 2017 to 2020 library circulation functions are automated through Ecoleaide ERP. Barcode based circulation system is following with all books are classified based on the DDC 20th edition.

The central library has a good collection of records including 28311 volumes and 12078 titles, 108 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 ScienceDirect (Through APJAKTU Consortium) , E-Books from EBSCO Engineering Host (7310+ books), DELNET Digital database and Turnitin Plagiarism detection

software, 1450 CD-ROMS and BIS codes & IRC Codes. The Library has Remote Access to e-resources using Knimbus Remote access facility that can be accessed in Mobile application also (MLibrary) . The library has an Institutional Digital Repository using DSPACE Digital library OSS. The institution has departmental libraries for all departments having a collection of 2295 volumes. A separate computer center is integrated with Library to enable online access in addition to the campus wide WiFi.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://library.mbcet.ac.in/">http://library.mbcet.ac.in/</a>

**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	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

**28.95019**

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

**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**

20828

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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 computers to students is 1:3. 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 March 2024. College has an Internet Leased Line of 400 Mbps bandwidth, 1:1 uncompressed on optical fiber and is scalable also. All staff rooms 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 a 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	<b>No File Uploaded</b>
Paste link for additional information	<a href="https://mbcet.ac.in/wp-content/uploads/2022/10/6.IT-Policy.pdf">https://mbcet.ac.in/wp-content/uploads/2022/10/6.IT-Policy.pdf</a>

**4.3.2 - Student - Computer ratio**

Number of Students	Number of Computers
<b>2019</b>	<b>699</b>

File Description	Documents
Upload any additional information	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus****A. 750 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

**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	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>



**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)****76.61066**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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 Manager. The Chairman of the Parent body entrusts the Manager 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 Manager and the Finance Officer. 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 Counselor takes care of the counseling 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/resources/maintenance-cell/">https://mbcet.ac.in/resources/maintenance-cell/</a>

**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****230**

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year****225**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**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	<a href="https://mbcet.ac.in/ebulletin">https://mbcet.ac.in/ebulletin</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

342

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**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	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**5.2 - Student Progression****5.2.1 - Number of outgoing students who got placement during the year****234**

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**5.2.2 - Number of outgoing students progressing to higher education****18**

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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****17**

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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****21**

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/wp-content/uploads/2024/10/Senate-Executives-2023-2024.pdf">https://mbcet.ac.in/wp-content/uploads/2024/10/Senate-Executives-2023-2024.pdf</a>

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

16

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
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

Mar Baselios College of Engineering and Technology Alumni Association, or MBCETAA organised various activities (in 23-24), including, (1) RENDEZVOUS 2023 - an Alumni Meet was held at Poojapura Ground, Thiruvananthapuram on 14th May 2023 at 5 pm. (2) MBCETAA instituted the Best Project Awards (and a cash prize of Rs.5000/-.) The awards were distributed by Dr. S. Unnikrishnan Nair Director VSSC at Exodos 2023 - Graduation Ceremony., (3)Conducted International Conference on E-Mobility, Power Control and Smart Systems (ICEMPS 2024), co-sponsored by MBCETAA, (4) The second International Conference on Applied Mechanics and Optimisation (ICAMeO'24) held in September 2024 by the ME department, sponsored by MBCETAA., (5) On September 27, 2023MBCT held the SIH Prelims Internal Hackathon.MBCETAA was sponsored the travel and accommodation expenses for participants progressing to the second level of the Smart India Hackathon 2023, (6) MBCETAA sponsored for Define'24 is the second edition of the flagship 24-hour hackathon hosted by the Department of CS (7), MBCETAA sponsored for OFFROADS'24, the prestigious Auto-show organized by Automata in associationwith the ME department, was held on 20/4/2024 at the college premises. (8), The International Conference on Networks and Advances in Computational Technologies (NETACT'24) held in December 2024, sponsored by MBCETAA.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://mbcet.ac.in/alumni/">https://mbcet.ac.in/alumni/</a>

#### 5.4.2 - Alumni's financial contribution during the year

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 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 a continuous improvement in governance, ensuring relevance and foresight. Statutory bodies oversee the implementation of action steps toward this vision, with faculty and staff represented on key bodies like the Governing Body, Academic Council, Boards of Studies, and Finance Committee, as mandated by UGC regulations.

? Effective governance is further enhanced through rotational appointments of faculty as Heads of Departments and Deans in areas such as Administration, Academics (UG), Research & Consultancy, PGSR, Student Affairs, Corporate Relations, and Alumni Affairs.

? The Office of the Controller of Examinations, supported by Deputy Controllers and a dedicated team, ensures rigorous exam management.

? Academic processes are reviewed biannually by the Academic Council and Boards of Studies. Collaborative efforts between management, faculty, and staff, supported by internal and external audits, ensure efficient administration.

? The Weekly E-Bulletin efficiently communicates the institute's activities, achievements, and vision to stakeholders. Social media platforms are shared with stakeholders for feedback and

engagement.

? Committed to becoming a globally renowned Center of Excellence, the institution achieved autonomous status from UGC and the affiliating university in 2020, reflecting its pursuit of quality and infrastructure development

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://mbcet.ac.in/about/#vision-mission">https://mbcet.ac.in/about/#vision-mission</a>

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

The College Management has created multiple levels in the administration - The Principal, the Vice Principal, Deans, HoDs, etc. have been created and the delegation of powers have been clearly defined. 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 the discharge of duties in respect of the management of the College.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://mbcet.ac.in/about/strategic-plan/">https://mbcet.ac.in/about/strategic-plan/</a>

## 6.2 - Strategy Development and Deployment

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

Describe any one activity/practice successfully implemented based on the institution's strategic plan (within a maximum of



200 words).

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 extracurricular 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 to ensure the social and emotional learning of the students. It's mandatory for the students to do charitable activities like offering training in 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 Units and the Unnat Bharath Abhiyan of the College.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/about/strategic-plan/">https://mbcet.ac.in/about/strategic-plan/</a>
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 of the Archdiocese of Trivandrum, which is registered with the Government under the Travancore-Cochin Literary, Scientific, Cultural Societies Act 1955. MBCET campus provides an ideal milieu for academic pursuits. The Governance system includes the Governing Body chaired by the Patron and Manager

himself. Functions of the top management are discharged through the Director and Finance officer appointed by the Manager. 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	<a href="https://mbcet.ac.in/organogram/">https://mbcet.ac.in/organogram/</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://mbcet.ac.in/about/administration/">https://mbcet.ac.in/about/administration/</a>

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 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. Group Insurance coverage is also provided.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/wp-content/uploads/2022/11/15a.Career-Advancement-Policy.pdf">https://mbcet.ac.in/wp-content/uploads/2022/11/15a.Career-Advancement-Policy.pdf</a>

### 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

22

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

6

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 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.)

109

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 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 Director and Finance Officer. 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 External financial audit is statutory as per the Financial rules and is done by a reputable Chartered Accountant. 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.

Parallel to this, the IQAC arranges internal audit by the Faculty team for the functional audit. Again, audit by the APJ Abdul Kalam Technological University Experts also was held. The External Peer Team of Experts conducted Academic and Administrative Audits as mentioned in the UGC Regulations.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://mbcet.ac.in/auditors-report/">https://mbcet.ac.in/auditors-report/</a>

**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)****1**

File Description	Documents
Annual statements of accounts	<a href="#">View File</a>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

The resources for capital and recurring expenditures are mobilized from multiple sources. Major component of the revenue inflow is the fees.

Since our students come from different strata of the society, the College tries to reduce the burden of fees for the socially and economically weaker students who are not getting any scholarships, through the means scholarships by way of fee concessions. Merit scholarships are also provided to top students.

The Management aims to provide best to meet the academic, research and training requirements to build a fruitful career.

The sponsorship from corporate sponsors, the research grants from Government and industrial sources, R&D projects from organizations like ISRO, DST, and so on and the revenue receipts from the testing and consultancy works, etc. shall go into the development of research and consultancy facilities along with the fund earmarked from the fees collected.

The infrastructure development plans are taken up in a phased manner to ensure the capacity expansion commensurate with the requirements of the academic departments. Optimal utilization of the funds is ensured financial audit and the checks and balances ensure transparent and efficient utilization of resources.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://mbcet.ac.in/research/funded-projects/">https://mbcet.ac.in/research/funded-projects/</a>

## 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)

***IQAC has systematically made interventions in the academic and administrative processes to assure the quality.***

- Internal Academic Audit, Internal Administrative Audit, Academic audit as per the University's norms, External Audits (Academic and Administrative audits) by a peer team comprising the leading academicians were conducted.***
- Coordinated the preparation / submission of the Annual Quality Assurance Report 2022-2023 (AQAR) of the HEI based on the quality parameters / assessment criteria developed by NAAC.***
- Coordinated the preparation / submission of the statutory reports of the College to AICTE, University, UGC, NIRF, KIRF and KSHEC as per the relevant guidelines in respect of the extension of approval, extension of affiliation, approval of new courses, annual report, national / international level ranking and surveys.***
- Feedback from Stakeholders (Students (S6) and Parents (of S6 students), Alumni (4 years back), Employers and Teachers) were circulated and collected.***

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/igac/">https://mbcet.ac.in/igac/</a>

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

**Describe any two examples of institutional reviews and implementation of teaching-learning reforms facilitated by the IQAC (within a maximum of 200 words each).**

1. The Teaching Learning Centre (TLC) has been established by the College 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
2. The Google's GSuite offers a complimentary platform for the offline classes so that teachers can assign tasks to the students to supplement the classroom teaching.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://mbcet.ac.in/teaching-learning/">https://mbcet.ac.in/teaching-learning/</a>

**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	<a href="https://mbcet.ac.in/wp-content/uploads/2023/02/NBA-MBCET-2022.pdf">https://mbcet.ac.in/wp-content/uploads/2023/02/NBA-MBCET-2022.pdf</a>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 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	<a href="#">View File</a>
Paste link for additional Information	<a href="https://mbcet.ac.in/internal-complaints-committee-icc/">https://mbcet.ac.in/internal-complaints-committee-icc/</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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 m<sup>3</sup> 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.

2. **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.
3. **Incinerator:**An incinerator placed near MRF is used for burning dry waste. Small incinerators are placed in ladies toilet for napkin disposal.
4. **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.
5. **Chemical waste:**Chemical waste from lab is collected and disposed of safely in Chemistry lab of Mar Ivanios College.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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**

**A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.5 - Green campus initiatives include**

<b>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</b>  <b>1.Restricted entry of automobiles</b> <b>2.Use of bicycles/ Battery-powered vehicles</b> <b>3.Pedestrian-friendly pathways</b> <b>4.Ban on use of plastic</b> <b>5.Landscaping</b>	<b>A. Any 4 or All of the above</b>
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File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	No File Uploaded

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

<b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b>  <b>1. Green audit</b> <b>2. Energy audit</b> <b>3.Environment audit</b> <b>4.Clean and green campus recognitions/awards</b> <b>5.Beyond the campus environmental promotional activities</b>	<b>B. Any 3 of the above</b>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

<b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment:</b> <b>Ramps/lifts for easy access to classrooms and centres</b> <b>Disabled-friendly washrooms</b> <b>Signage including tactile path lights, display boards and signposts</b> <b>Assistive technology and facilities for persons with disabilities:</b> <b>accessible website, screen-reading software, mechanized equipment, etc.</b> <b>Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.</b>	<b>A. Any 4 or all of the above</b>
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File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<a href="#">View File</a>
Details of the software procured for providing assistance	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

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 supports 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, Chirag, Thanal etc. of the Institute have 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)	<a href="#">View File</a>

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 class 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	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**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	<a href="#">View File</a>
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	<a href="#">View File</a>
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

1. Independence Day
2. Republic Day
3. International Yoga Day
4. World Population Day
5. World Day for International Justice
6. Teachers Day
7. Global Literacy Day
8. World Suicide Prevention Day
9. World First Aid Day
10. International Peace Day
11. NSS Day
12. World Rivers Day

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 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

1. Young Wizard of Science award given to the first year UG students. One student from the first year will be selected for the Award on the basis of All Round Performance, Performance in Proficiency Test, Index Marks and Character. Students passed in 1st and 2nd series examinations are eligible for the Award
2. 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	<a href="https://mbcet.ac.in/wp-content/uploads/2024/12/Best-Practice-2023-2024.pdf">https://mbcet.ac.in/wp-content/uploads/2024/12/Best-Practice-2023-2024.pdf</a>
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 institution has adopted an infrastructural policy that does not disturb the landscape and the terrain. The natural flow of water is not hindered. Classrooms are properly ventilated allowing the flow and circulation of quality air in the classrooms. The campus is well maintained with natural flora and fauna along with terrain and is a bird-friendly campus. The campus has won the National Award for Green Initiatives. Periodic maintenance of the building and daily housekeeping of the campus have contributed to the status as clean campus. The various cells namely the waste management cell, Energy cell, water management cell under the umbrella of Environment cell takes care of regular initiatives to maintain eco-friendly campus in addition to nature club activities. Rainwater harvesting in campus and water recycling in hostel helps farming in water management towards sustainable water resource management also catering to nearby institutions. The Rainwater is the campus is collected and three stage filtering is



successfully implemented making it usable for campus needs. The campus also conducts regularly green audits through which suggestions from students are collected and implemented for maintaining the eco-friendly initiatives in the campus for more than a decade. The campus as also recently won the Gold rating from SII by R-world.

File Description	Documents
Appropriate link in the institutional website	<a href="https://mbcet.ac.in/wp-content/uploads/2024/12/INSTITUTIONAL-DISTINCTIVENESS-2023-24.pdf">https://mbcet.ac.in/wp-content/uploads/2024/12/INSTITUTIONAL-DISTINCTIVENESS-2023-24.pdf</a>
Any other relevant information	No File Uploaded

### 7.3.2 - Plan of action for the next academic year

1. Start one Industry supported Laboratory each in the Civil and Mechanical Engineering areas
2. Start a Non-Destructive testing Lab
3. Increase the placement opportunities for students by conducting training programmes right from lower semesters.
4. Conduct one Faculty Development Programme per semester per Department
5. Organise at least one International Conference at College level by different departments
6. Conduct more outreach programmes to enhance the quality of intake as well as to increase the number of students getting admitted in all the Programmes of study
7. Modernize the UG laboratories of the major Departments to address advanced topics as required in the revised curriculum.
8. Establish a Research lab under UGC Research and Development cell formed to promote Multidisciplinary / Inter Disciplinary Research
9. Conduct annual External Peer evaluation for the academic and administrative processes along with the regular internal audits
10. Develop playfields for more games like Football, Squash,

etc.

11. Prepare and submit Self-Assessment Report under Tier 1, for accreditation assessment by NBA

12. Create incubation space for start-ups and implement NISP.

13. Create facilities for e-content development.

14. Initiate external Green, Energy and Environment audit