

Progress Report for the Academic Year 2020-2021

Submitted to



UNIVERSITY GRANTS COMMISSION
Government of India



Mar Baselios College of Engineering and Technology
Mar Ivanios Vidyanagar, Nalanchira
Thiruvananthapuram, Kerala
(AUTONOMOUS)
July 2021

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1. About the College, Vision, Mission

Mar Baselios College of Engineering and Technology (MBCET), Thiruvananthapuram, Kerala was established in the year 2002 by the Major Archdiocese of Trivandrum with the noble objective of providing quality technical education based on fundamental human values. MBCET offers five B. Tech programmes in five branches (CE, CS, EC, and EE, ME) with an intake of 120 students each and five M. Tech programmes in five specializations. College is an approved research centre under APJ Abdul Kalam Technological University, Kerala. College is accredited by NAAC with 'A' Grade (CGPA: 3.13) since 2016. All the B.Tech programmes are accredited by NBA since 2016. The institution has been conferred with the Autonomous status by University Grants Commission (UGC) in the year 2020.

Vision:

To be an Institution moulding globally competent Professionals as epitomes of noble Values.

Mission:

To transform the Youth as technically competent, ethically sound and socially committed Professionals, by providing a vibrant learning ambience, for the welfare of humanity.

2. About Autonomous Status

UGC has conferred the autonomous status in July 2020. APJ Abdul Kalam Technological University has notified the conferment of autonomous status to our College in September 2020. The autonomy was granted by the UGC for a period of 10 years (2020-21 to 2029-30). College is looking at Autonomy as an opportunity that provides greater flexibility in improving the quality of education towards achieving academic excellence. The degrees will be awarded to the students by APJ Abdul Kalam Technological University, based on the recommendation of the Governing Body of the College. The name of the college will be mentioned in the degree certificates. College Management has constituted the statutory bodies like Governing Body, Academic Council, and the Boards of Studies as per the extant rules and regulations, and the meetings of these bodies have been conducted duly after the constitution in October 2020. Two to three meetings were conducted for all the statutory bodies before July 2021. First batch of students were admitted to B.Tech and M.Tech programmes under autonomy through the approved admission process and the classes were started in November 2020.

3. Academic activities undertaken

College is systematically carrying out the academic activities. There are multiple schemes for the undergraduate programmes namely the 2015 scheme, 2019 scheme, and the 2020 autonomy scheme simultaneously offered by the faculty. College follows its own calendar for the autonomy batch, while the calendar for other batches are that of the University. Postgraduate programmes are also of two schemes; the University scheme and the autonomy scheme. Classes for the 2020 admission batch were started in November 2020 after the mandatory Student Induction Programme.

Classes of B.Tech Degree started after completing the mandatory Student Induction programme for two weeks from 16th to 27th November 2020. The online classes of first semester started on 30th November 2020 and ended in March 2021 after completing the required instructional days.

The academic year 2020-2021 has witnessed the extensive use of the online platforms for conducting not only the classes for all batches but also for the co-curricular activities as well. Even amid lockdown and the Covid 19 protocols we tried our level best to carry forward the academic, co-academic, and extra-curricular activities to the best possible extent to keep the vibrancy of the campus up and live throughout the year.

The continuous assessment tests and assignments were also conducted online during the period of the online classes. First Semester B.Tech Degree Examinations for the Credit based theory courses were conducted in the offline mode during April 2021. However, due to the increase in the spread of the Covid 19 pandemic, and by following the Guidelines of the affiliating University, the evaluation in respect of the Laboratory Courses and the Non-credit based course on Life skills were conducted in the online mode, subsequently in April/May 2021. Under the autonomous scheme, 494 students registered for the First Semester B.Tech Degree Examination and 32 students registered for the First Semester M.Tech Degree Examination.

College conducted End Semester Examinations for the Credit Based Courses with Maximum Marks as 100 and the Duration as 3 (three hours). The pass criterion is 40% for End Semester examination and an aggregate of 50% when the End Semester Marks and the Continuous Assessment Marks are put together.

Marks were tabulated using the Academic Management System. Results of first semester B.Tech Degree Examinations were published on 09.07.21.

Classes for First semester M.Tech students were conducted from 17th November 2020 to 27th February 2021. End Semester Examination of all credit based theory courses were conducted in offline mode from 22.03.21 to 31.03.21. Results were provisionally published on 13.04.21 which was finalized in July 2021.

There was a substantial increase in the number of students registered for **MOOC** courses. A total of 684 students registered for the online courses in the academic year 2020-21. The SPOC of MBCET was awarded as 'Active SPOC' based on the performance and participation of candidates during the year.

3.1 2016-2020 batch Results

At BTech level, the 2016-2020 batch recorded an overall pass percentage of 73% of which more than 36% scored above a CGPA of 8.0 out of 10.0 and 23% successfully passed out with BTech Honours which is a significant achievement. For the MTech Programmes, the 2018-20 batches recorded a pass percentage of 98%.

3.2 Curriculum design and development

College has initiated curriculum design and development pursuant to the autonomy. The factors considered for design of curriculum are curricular structure of the affiliated university (KTU),

Model curriculum prescribed by AICTE, recommendations by industry experts and alumni and recent advances in technology.

College is practicing Outcome Based Education from the academic year 2014-2015 onwards. All the Undergraduate Programmes are accredited by National Board of Accreditation. Each B.Tech programme defines its Programme Specific Outcomes along with the Programme Outcomes defined by NBA and each course in the curricula has its Course Objectives/Course Outcomes.

The draft curriculum is prepared and placed for discussion in the Board of Studies (BoS). The experts from industry and academia, who are the members of the BoS scrutinised the draft and suggestions are made. The curriculum thus evaluated by the experts was approved by the Academic Council (AC). The curriculum is designed to attain the Programme Outcomes (POs) and Programme Specific Outcomes (PSOs).

3.3 Students' Achievements

In spite of the pandemic situation and the constraints imposed, the students have been very actively applying their technical expertise for the benefit of the society. They have won many awards through their innovative contributions. A number of students secured admission in reputed Universities abroad for their Masters programme. Some of the major achievements of the students during the year are highlighted below.

- Ganga S. S., Ganga P. S., Thara Govind K. R. and Gayathri Nair got first prize in the B.Tech project competition, PROCOMB 2019-20 conducted by Graduate Association of Civil Engineers, Ernakulam Centre and AISAT for best B.Tech Project under APJKTU.
- Thouzeef Hussain A., M.Tech Structural Engineering won the best thesis award under the Outstanding Thesis in the field of Concrete.
- The team consisting of Kesia Mary Joies and Rahul Sunil of S5 CS1 won the first prize for their idea Bank Easy in the Christmas hackathon event HackX conducted by the Computer Society of IEEE NITC SB and IEEE NSSCE SB.
- Meghna R Nair of S1 CS2 and her team won the first prize at the 6 days Innovate Bootcamp program held at IIT Palakkad from 20th January 2021 through 25th January 2021.
- Jeffrey Roshan of S5 CS1 was awarded outstanding performance at the "24 hour 2-D Game Development Hackathon" held on 25th July 2020.
- The team consisting of Abhijeet C (S7CS1), Bharath T U (S7CS1), Rahul Sunil (S5CS1), Kesia Mary Joies (S5CS1), Neha Sabu (S5EC1) won All India competition "Cisco thingQbator".
- Vishnu J Nair of S8CS1 and his team established a startup named Techify in 2020.
- Vishnu P. Kumar (S6 EC2), Miladh Muhammed (S6 EC2) and Brigitta W.L. (S6 EC1) won the first prize in 'Pitch it Green' Idea Pitching Challenge conducted as part of E-Novus 2021 by College of Engineering Trivandrum. The members are part of the start-up team EcoRich Technologies.

- Team ‘EcoRich Technologies’ comprising Vishnu P. Kumar (S5 EC2), Miladh Muhammed (S5 EC2), Brigitta W.L. (S3 EC1) and Akshai R.K. (S7 EC1) emerged as the Runner-Up for the “She Power Hackathon”, organized by Kerala Start Up Mission on 20th Dec, 2020 in association with the US State Department and World Learning.
- Meenakshy Sunil (S7 EC1) was conferred the ISTE Best Student Award for the year 2019 - 2020.
- William George (S7 ME2) and Deepthi G.A. (S7 EC2) was conferred the Outstanding Engineer award by IET Kanyakumari Local Network for the year 2020.
- Deepthi G.A. (S7 EC2) was conferred the IET Mar Baselios On Campus Outstanding Engineer award for the year 2020.
- Deepthi G.A., Aneeta Sabu, Sowmiya V. and V. S. Devika from S7 EC2, won the second prize in the Idea Pitching competition conducted as part of the IEEE EMBS CONCLAVE 2020 organized by IEEE EMBS Kerala Chapter on 12th December 2020.
- C. Harikrishna Sharma (S5 EC2) won the first Prize in the National Level Quiz Competition organized by C.K.M. Arts and Science College, Warangal, on 26th November 2020.
- Neha Sabu (S5 EC2) was a part of the team ‘Anamnesis’ which got selected as one of the top 12 teams out of the 120 teams all over India, and won a cash prize of Rs. 40,000/- in the CISCO Thing Qubator programme.
- Team BLITZKRIEG consisting of Vishnu M Nair, Abinshah Ameer, Amaze Anna Toms, Nanditha Sai Prasanth, and Geoji George of S7 EE2 and Vaishnavi of S7 EE1 bagged 1st runner up position and won Rs. 2,00,000/- for their idea under Home Affairs Theme in the ASAP Hackathon Rebuild Kerala 2020 Grand finale.
- Mr. Noel Mathew Jacob of S7 EE1 won the Gladiator Award conferred by the IET Kanyakumari Local Network.
- Mr. Balu Bijubal of S7 EE1 won the Shining Star Award conferred by the IET Kanyakumari Local Network.
- Vaishnavi R Nair of S6 EE1, Abinshah Ameer, Amaze Anna Toms, Nanditha Sai Prasanth and Vishnu M Nair of S6 EE2 won Second Prize in the Reboot Kerala Hackathon organized by ASAP and Dept of Higher Education, Kerala held from 7 to 9 August 2020.

4. Research activities undertaken

4.1 Funded Projects

In order to encourage a culture of research among faculty, the management continues to fund **In-house R&D projects**, which have the potential to be developed for further research and development activities. Funds for 8 projects have been sanctioned during the year 2021-2022.

| # | Name of the Principal Investigator/ Co Investigator | Title of the Project | Dept. of PI and Co-PI | Year of Award | Funds provided (INR) | Duration of the project |
|---|---|----------------------|-----------------------|---------------|----------------------|-------------------------|
|---|---|----------------------|-----------------------|---------------|----------------------|-------------------------|

| | (if applicable) | | | | | |
|---|---|--|---------------|------|----------|------|
| 1 | Ms. Shilpa George (PI), Ms. Jomole Joseph P. (Co-PI) | Design and implementation of Wireless Battery Management System in Electric Vehicles | EEE | 2021 | 1,02,800 | 1 Yr |
| 2 | Ms. Keerti S. Nair (PI), Ms. Anu Gopinath (Co-PI) | Control Design and Stabilization of a Rotary Inverted Pendulum” | EEE | 2021 | 10,000 | 1 Yr |
| 3 | Mr. Sijo M. Saji (PI), Ms. Ann George (Co-PI) | An experimental study to evaluate the performance of Open Graded Friction Course using Hot Mix and Warm Mix Technology | CE | | 96,500 | 1 Yr |
| 4 | Ms. Jisha Jose (PI), Ms. Shini Renjith (Co-PI) | An IoT Based Secure Smart Farming | CSE | 2021 | 64,500 | 1 Yr |
| 5 | Ms. Anjali S. (PI), Ms. Vinny Pious (Co-PI) | Automated Multi-Parameter based Fruit Grading using Machine Fruit Grading using Machine Intelligence Techniques | CSE | 2021 | 10,000 | 1 Yr |
| 6 | Dr. Veena Nair (PI), Ms. Dhanya L.K. (Co-PI) | Task Complexity in Second Language Writing: An analysis using Natural Language Processing Techniques | S & H and CSE | 2021 | 20,000 | 1 Yr |
| 7 | Dr. Vidya Vilas (PI), Dr. Archana P Das (Co-PI) | Phytosynthesis of Bioactive Metal-Metal oxide Nanocatalysts using Essential oil of <i>Cymbopogon citratus</i> (Lemongrass) | S & H | 2021 | 1,00,000 | 1Yr |
| 8 | Mr. Vishnu Asok J.S. (PI), Dr. Rajesh T.N. (Co-PI) | Development of an engine management system for a single cylinder SI engine | ME | 2021 | 57,500 | 1Yr. |

College is encouraging academic research and development research to build the research culture on the campus.

A number of proposals have been submitted for funding from **external** organisations. 14 research projects worth a total amount of Rs 38.25 lakhs are currently in progress. The majority of the funding is provided by the organisations such as DST, ISRO and KSCSTE. In addition, a number of projects are funded by the affiliating University (APJKTU)

| Sl. No. | Name of the Principal Investigator/ Co Investigator (if applicable) | Title of the Project | Name of the Funding agency | Type (Government/ Non-Government) | Department of Principal Investigator/ Co Investigator | Funds provided (INR in lakhs) | Month and Year of receiving the grant | Duration of the Project |
|---------|---|---|---|-----------------------------------|---|-------------------------------|---------------------------------------|-------------------------|
| 1. | Dr. Neethu Roy | Influence of Polymer Dosage and Nature of Bitumen on the Micro Structural and Rheological Characteristics of Polymer Modified Binders | Science and Engg. Research Board, DST | Government | Civil Engineering | 27.995 | June 2018 and January 2021 | 3 years |
| 2. | Dr. Jisha S. V. | Seismic Soil Structure Interaction Response of Structures Subjected to Pounding | APJAKTU, CERD KERALA | Government | Civil Engineering | 0.630 | March 2019 | 3 years |
| 3. | Dr. Jisha S. V. (PI) and Dr. M. Satyakumar (Co-PI) | Performance Evaluation of Ultra-thin White | Kerala State Council for Science Technolo | Government | Civil Engineering | 3.0 | August 2020 | 2 years |

| | | | | | | | | |
|----|----------------------------------|---|--------------------------------------|----------------|---------------------------------|------|---------------------|--------------|
| | | Topping Overlays. | gy & Environ ment (KSCST E) | | | | | |
| 4. | Dr. Neethu Roy | Developm ent of a flexible pavement design strategy for highways considerin g the effect of dynamic loading | APJAKT U - CERD | Govern ment | Civil Engineering | 0.26 | June 2021 | 1 year |
| 5. | Dr. Jisha S V | Evaluatio n of the performan ce of ultra-thin white topped pavement incorporat ing geosynthe sis | APJAKT U - CERD | Govern ment | Civil Engineering | 0.17 | June 2021 | 1 year |
| 6. | Dr. K. Muraleedha ran Nair | An extensive study on oscillation of open, closed rectangula r and rounded cavity | APJAKT U, CERD KERAL A | Govern ment | Mechanical Engineering | 2 | Marc h 2018 | 3 years |
| 7. | Dr. Krishna Mohan GP | DJMol – open source modeling program | IKST, Bangalor e | Govern ment | Science and Humanities | 4.5 | Janua ry 2021 | 1.5 years |
| 8. | Dr Tessy Mathew | Identifyin g texting idiolects using transform | APJAK TU, CERD KERAL A | Govern ment | Computer Science and Engg | .10 | June 2021 | 1 year |

| | | | | | | | | |
|-----|------------------------|--|-----------------|------------|---|-------|---------------|--------|
| | | ers | | | | | | |
| 9. | Dr.Jayakumari J | Portable Brain Computer Interface for Medical Applications | APJAK TU - CERD | Government | Electronics and Communication Engineering | 0.325 | February 2020 | 1 year |
| 10. | Ms. Lani Rachel Mathew | Speech therapy system for Cleft Lip/Palate Patients | APJAK TU - CERD | Government | Electronics and Communication Engineering | 0.11 | June 2021 | 1 Year |
| 11. | Mr. Arun J.S. | Voice Actuated Backrest For Paralysis Palliation | APJAK TU - CERD | Government | Electronics and Communication Engineering | 0.09 | June 2021 | 1 Year |
| 12. | Dr. Rajesh T.N. | Design and development of a centrifugal supercharger system for lean supercharging of a single cylinder SI engine. | APJAK TU - CERD | Government | MED | 0.325 | June 2021 | 1 year |
| 13. | Ms.Sheenu P | IoT based dam monitoring and Pre disaster management | APJAK TU - CERD | Government | EED | 0.12 | June 2021 | 1 year |
| 14. | Ms. Manju Sreekumar | Demand Management system using AI and IoT | EMC | Government | EED | 0.34 | June 2021 | 1 year |

More faculty members from various departments have received approval as PhD Supervisors under APJKTU as well as MBCET (autonomous). Currently there are seven Research Supervisors from different departments, guiding 10 PhD scholars.

4.2 Publications

With an increasing focus on research, the faculty from the departments have published 90 research papers in all during the academic year that include both reputed Journals and International Conferences. The numbers of publications by departments are as follows:

Civil Engineering - 10

Computer Science and Engineering - 22

Electrical and Electronics Engineering - 25

Electronics and Communication Engineering - 24

Mechanical Engineering - 7

Science and Humanities – 7

4.3 Institute-Industry Relations

- A number of MoUs have been signed to expand the relationships with industries and R&D organizations.
- KSCSTE-National Transportation Planning and Research Centre (NATPAC), Trivandrum extended its support on Research and Development in Transportation Engineering with the Civil Department of Engineering.
- MoU has been signed with IBM India Pvt Ltd for conducting internationally valid training courses for students on the topics of Cyber Security, Data Science and Artificial Intelligence
- An MoU is made between C-DAC and MBCET in February 2021. C- DAC(T) will extend its support to MBCET for expert lectures, invited talks, staff and student training, industrial visits, sharing R&D projects etc. in numerous areas of Electronics, Communication, Computer Science.
- MoU was signed between BSNL Regional Telecom Training Centre (RTTC) and Mar Baselios College of Engineering and Technology (Autonomous) on 15th March 2021. This will help our students in attending training, internships, projects etc.
- Initiated by IET MBCET, MoUs were signed with Vidyuthi Energy Services (VES), a company founded by the college Alumni, Mr. Anoop Babu, for initiatives pertaining to the UN SDGs.
- Kerala Institute of Local Administration (KILA) to carry out Internship, Training Programmes, Workshops, Certificate Courses and Collaboration Projects related to Local Governance.
- An industry Project titled “Ergonomics assessment and Design of Chair in the Electronic Testing Unit” was done by 2020 batch MED students in Hindustan Latex Ltd. under the guidance of Dr Nidhi M.B, Associate Professor, MED.

4.4 Other Research activities

The other Research activities undertaken are listed below.

Departments have submitted proposals to various funding agencies such as DST, ISRO, AICTE and KSCSTE on emerging areas in Engineering. Also proposal has been submitted to AICTE under MODROBS scheme for the upgradation of the laboratories. Details of research projects and related activities are provided in the following section.

With the aim of providing quality education and research facilities, the Department of Civil Engineering has added the following instruments to the laboratories.

| Sl. No. | Equipment | Laboratory | Amount (in Rupees) | Purchase Date |
|---------|-------------------------------|--------------------------------|--------------------|--------------------|
| 1. | Systronics Water Analyzer 371 | Environmental Engineering Lab | 75,862.50 | 6th February 2021 |
| 2. | Brookfield Viscometer | Transportation Engineering Lab | 10,08,706.20 | 24th February 2021 |
| 3. | GNSS and Total Station | Survey Lab | 9,34,392 | 26th February 2021 |

4.5 Collaborative/Interdisciplinary Research Works and other Projects

- Dr.Tessy Mathew, Dr. Jisha John, Dr. Jesna Mohan (Dept. of CSE) and Ms.Deepa P.L (Dept. of ECE) are involved in a collaborative work with Dr. Sajeew V Thomas, Professor of Neurology (Sr. Grade) Head of the Department of Neurology Sree Chitra Tirunal Institute for Medical Sciences and Technology for analyzing the dataset for Malformation Risk Modelling with Machine Learning Techniques for Women with Epilepsy.
- Ms. Devipriya V.S and Ms. Divya R.S (Dept. of CSE, MBCET) are involved in a collaborative work with team members of Centre for Development of Advanced Computing (C-DAC) in the area of Software Defined Network and Security Analytics.
- A project envisaging the immediate rescue operation to be carried out in our water bodies to prevent any death due to drowning is in the development stage. The project is under development with collaborative effort from the Electrical & Electronics Engineering and Mechanical Engineering Departments of MBCET. A prototype has been developed and tested by a group of final year students from EEE which has shown enough capability to be driven in still water. The project is in a modification stage so as to ensure faster and stable drive in fast running water including oceans. The system can be operated by remote control from a boat or ground station. The project was guided by Mr. Aswin R B and Ms. Jomole Joseph P (Dept. of EEE, MBCET).
- The student project entitled "AQI mapping using UAV" guided by Mr. Praveen Raj, Assistant Professor, EEE (Student Project Members: Adarsh Sudarsanan, Amalu S

Panicker, Karthik J, Sachu Pradeep) and "Plant Box: A Controlled-Environment Agricultural Technology Platform" guided by Ms. Shyju Susan Mathew, Assistant Professor, EEE (Student Project Members: Prince K Francis, Amal S, Roshan Roy, Navaneeth M S) received the mentoring and support from International Centre for Free and Open Source Software (ICFOSS).

- The Department of EEE has initiated an EV Research cell. For its activities, collaboration with different companies and agencies such as Vydyuthi Energy Services, Charge MOD, and Energy Management Centre (EMC) has been initiated. The Research Cell aims to create awareness about e-mobility, EV Technologies and enhance R&D works and career opportunities for faculty and students in this emerging area. Planned activities include internship, workshops, STTPs, project support to the student project groups with support from Faculty, Industrial experts and Domain experts, which may open the base for major projects and research later. The final objective of the cell is to develop an EV model and a charging station in the campus by Faculty and Students.
- Flow Measures Pvt. Ltd. is a company that provides complete comprehensive solutions of integrated flow measurement packages and solutions in Power, Water & Wastewater, Food & Beverages, Oil & Gas, Chemical, Pharmaceutical & Commercial Residential building automation. The Department Research Promotion Committee (DRPC) in collaboration with Flow Measures Pvt. Ltd. has reached an agreement in developing Water Cut Meter and Electromagnetic Flow Meter and Analysis of water content in Crude Oil and the work is ongoing. The work on "Electromagnetic Flow Meter" and "Analysis of Water content in Crude Oil" is done as an Interdisciplinary work with the Department of Electrical and Electronics Engineering.
- Another ongoing project at the Dept. of Mechanical Engineering is the development of a multipurpose machine meant for cleaning both vegetables and meat. The system is based on a two basin model in which the inner perforate unit will act as the storage cum holding container for the meat and the outer solid container will act as the barrier casing for the water to be drained out. The project is in a preliminary stage of prototype building.
- Indo-Korea Science and Technology Center, Bangalore, has approved a research grant (4.5L) for Dr. Krishna Mohan G.P. to develop a Linux version of DJMol.
- Software named 'FIXPLAN' has been developed as part of Ph.D research work by Mr. Remil George Thomas, Associate Professor, Mechanical Engineering Department during December 2020.

5. Administrative activities including meetings of Statutory Bodies

5.1 Governing Body - Meetings and Members & Co-opted members

First meeting – 12.10.2020, 10 am

Second Meeting – 10.02.2021, 10 am

Third meeting – 07.07.2021, 10.30 am

| Position | Incumbent |
|-----------------------------|---|
| Chairman | His Beatitude Moran Mor Baselios Cardinal Cleemis Catholicos President, MCES of Archdiocese of Trivandrum, Patron and Manager, MBCET |
| Member | Prof. Arun Kumar Agarwal Retd. Professor and Head, Department of Computer Science and Engineering, IITBHU, Varanasi. Ex-Director, NCL Board, Coal India (<i>UGC Nominee</i>) |
| Member | Mr R Vijayakumar Addl. Secretary to Govt. of Kerala, Ministry of Higher Education (<i>Nominee from Government of Kerala</i>) |
| Member | Dr Suresh Babu V Professor, Dept. of ECE, Govt. Engineering College, Wayanad (<i>APJ Abdul Kalam Technological University Nominee</i>) |
| Member | Rt. Rev. Msgr. Dr. Mathew Manakarakavil Major Archdiocese of Trivandrum |
| Member | Rev. Fr John Vilayil Bursar, MBCET |
| Member | Rev. Fr Thomas Kayyalackal Procurator of Major Archdiocese of Trivandrum |
| Member | Mr Jacob Punnoose IPS (Retd). |
| Member | Mr Tony Thomas CIO, Boston Consulting Group |
| Member | Prof. S. Viswanatha Rao Vice Principal and Dean (Academic Affairs-UG), MBCET (Faculty Representative) |
| Member | Dr Neethu Roy Dean (R&C) & Prof. CED, MBCET (Faculty Representative) |
| Member Secretary | Dr Abraham T Mathew Principal, MBCET |

5.2 Academic Council - Meetings and Members & Co-opted members

First meeting – 30.10. 2020, 10 am

Second Meeting – 30.12.2020, 10 am

Third Meeting – 17.02.2021, 10 am

| | | | |
|----|---|----|---|
| 1 | Dr. Abraham T Mathew, Principal, MBCET (Chairman) | 2 | Prof. S Viswanatha Rao (Co-opted), Vice Principal, Dean (Academic Affairs-UG) |
| 3 | Rev. Dr. Gigi Thomas, Dean of Studies, HoD (Mathematics), Mar Ivanios College | 4 | Dr. Ayyappan M Chairman, AS Group of Companies, (Former MD, HLL Lifecare Ltd) |
| 5 | Dr. Ashok S Professor HAG and Dean (R&C), National Institute of Technology Calicut | 6 | Dr. Kurien Issac Senior Professor & Dean IPRCE Indian Institute of Space, Science and Technology |
| 7 | Dr. Jayasree S Professor, HOD-CED | 8 | Dr. Tessy Mathew Associate Professor, HOD-CSED |
| 9 | Dr. Jayakumari J Professor, HOD-ECED | 10 | Dr. Nisha G K Professor, HOD-EEED |
| 11 | Dr. Rajesh T N Associate Professor, HOD-MED | 12 | Prof. Joseph Cheriyan Professor, HOD-S&HD |
| 13 | Dr. K Muraleedharan Nair Dean (Administration) Professor, MED | 14 | Dr. Jisha John Associate Professor, CSED |
| 15 | Ms. Swapna P S Assistant Professor, ECED | 16 | Mr. Akhil Raj S R Assistant Professor, CED |
| 17 | Dr. Paul Thomas (Co-opted) Dean (PG Studies & Research) Professor, ECED | 18 | Dr. Neethu Roy (Co-opted) Dean (Research & Consultancy) Professor, CED |
| 19 | Mr. Pradeep M (Co-opted) Controller of Examinations Assoc.Prof., MED | 20 | Dr. Jayashree M J Professor, ECED, IQAC Coordinator |
| 21 | Ms. Jomole Joseph P (Member Secretary) Assistant Professor, EEED | 22 | Ms. Christi Francis (Invitee) Asst. Dir & HOD - PED |
| 23 | Mr. Binu K John (Invitee) Librarian | 24 | Nominee of KTU (1) |
| 25 | Nominee of KTU (2) | 26 | Nominee of KTU (3) |

5.3 Board of Studies - Meetings and Members & Co-opted members

| First Meeting | Second Meeting |
|----------------------------------|------------------------------------|
| CE 16.11.2020, 4 pm | CE 03.02.2021, 3 pm |
| CSE 20.11.2020, 3 pm | CSE 03.02.2021, 4 pm |
| EEE 13.11.2020, 3 pm | EEE 29.01.2021, 10:30 am |
| ECE 18.11.2020, 3 pm | ECE 04.02.2021, 3 pm |
| ME 19.11.2020, 3 pm | ME 29.01.2021, 3 pm |
| S&H 13.11.2020, 10 am | S&H 08.02.2021, 2:30 pm |

Department of Civil Engineering

| | | | |
|----|--|----|--|
| 1 | Dr. Jayasree S , Professor (Chairman-Ex-officio) | 2 | Dr. J. Murali Krishnan (UG Expert), Professor, IIT Madras |
| 3 | Dr. K. V. Jayakumar (UG Expert), Professor(HAG), NIT Warangal | 4 | Dr. N. Ganesan (PG Expert) Former Professor(HAG) & Dean, Department of Civil Engineering, NIT Calicut 673601 |
| 5 | Dr. P. Jayabalan (PG Expert) Department of Civil Engineering, National Institute of Technology, Tiruchirappalli, India. | 6 | Mr. S. N. Raghuchandran Nair (Industry representative) Director, S I Property, Thiruvananthapuram, Kerala |
| 7 | Dr. S. Chandrakaran, Professor (HAG), Department of Civil Engineering, National Institute of Technology, Calicut, India. | 8 | Dr.T. P. Somasundaram, Professor, Department of Civil Engineering, National Institute of Technology, Calicut, India. |
| 9 | Ms. Micky Mathew, Scientist, National Centre for Earth Science, Thiruvananthapuram, Kerala | 10 | Dr. M. Satyakumar, Professor |
| 11 | Dr. Neethu Roy, Professor | 12 | Prof. P. S. Abraham, Professor |
| 13 | Dr. Elizabeth C Kuruvilla, Professor | 14 | Ms. Bindu Biju, Assistant Professor |
| 15 | Ms. Tisny D.B, Assistant Professor | 16 | Ms. Jean Molly Simon, Assistant Professor |
| 17 | Ms. Jaya S. Pillai, Assistant Professor | 18 | Ms. Lekshmi Chandran M, Assistant Professor |
| 19 | Ms. Anupama Krishnan, Assistant Professor | 20 | Ms. Parvathy U, Assistant Professor |
| 21 | Ms. Sherin Mathew, Assistant Professor | 22 | Mr. Akhil Raj S. R, Assistant Professor |
| 23 | Ms. Linda Jose, Assistant Professor | 24 | Ms. Anita A. (Member Secretary), |

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|----|--|----|---|
| | | | Assistant Professor |
| 25 | Ms. Aneena Babu, Assistant Professor | 26 | Ms. Nimisha Anna Jacob, Assistant Professor |
| 27 | Ms. Smrithi Cheriya, Assistant Professor | 28 | Ms. Rintu Johnson, Assistant Professor |
| 29 | Ms. Athira I.C, Assistant Professor | 30 | Ms. Akhila A.M, Assistant Professor |
| 31 | Ms. Anupama Krishna D, Assistant Professor | 32 | Ms. Panchami Lal, Assistant Professor |
| 33 | Mr. Jomy Joseph, Assistant Professor | 34 | Mr. Sijo M. Saji, Assistant Professor |
| 35 | Mr. Jobin Joy, Assistant Professor | 36 | Nominee of KTU (1) |

Department of Computer Science and Engineering

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|----|---|----|--|
| 1 | Dr. Tessy Mathew, Associate Professor (Chairman-Ex-officio) | 2 | Dr. B S Manoj (UG Expert), Professor, Avionics Department, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram |
| 3 | Dr. S D Madhu Kumar (UG Expert), Professor of CSE Dept. & Dean (SW), NIT Calicut | 4 | Dr. John Jose (UG Expert), Assistant Professor, Dept of CSE IITGuwahati |
| 5 | Dr. Deepak Garg (PG Expert), HOD and Professor, School of Engineering and Applied Sciences, Bennett University, NOIDA | 6 | Dr. Sandeep Chandran (PG Expert), Assistant Professor, Dept of Computer Science and Engineering, IIT Palakkad. |
| 7 | Mr. Bipindev I R (Industry Expert), Senior Executive –HR, Thoughtline Technologies | 8 | Mr. Sreedish P S (Alumni Rep), Software Development Engineer 2, Amazon, Bengaluru |
| 9 | Dr. Vikraman Nair, Professor | 10 | Prof. Raju K Gopal, Professor |
| 11 | Ms. Asha S, Associate Professor | 12 | Dr. Jisha John, Associate Professor |
| 13 | Mr. Praveen G L, Assistant Professor | 14 | Mr. Shibu V S, Assistant Professor |
| 15 | Ms. Devi Priya V S, Assistant Professor | 16 | Ms. Anne Dickson, Assistant Professor |
| 17 | Ms. Poorna B R, Assistant Professor | 18 | Ms. R S Divya, Assistant Professor |
| 19 | Ms. Anjali C, Assistant Professor | 20 | Ms. Gayathri K S, Assistant Professor |
| 21 | Mr. Binu Jose, Assistant Professor | 22 | Ms. Jisha Jose, Assistant Professor |
| 23 | Ms. Shini Renjith, Assistant Professor | 24 | Ms. Kiran Baby, Assistant Professor |
| 25 | Mr. Ramjith R P, Assistant Professor | 26 | Ms. Jesna Mohan, Assistant Professor |
| 27 | Ms. Jayalekshmi J, Assistant Professor | 28 | Ms. Vinny Pious, Assistant Professor |
| 29 | Ms. Anjali S, Assistant Professor | 30 | Ms. Dhanya L K, Assistant Professor |

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| 31 | Mr.Shon J Das (Member Secretary), Assistant Professor | 32 | Nominee of KTU (1) |
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Department of Electrical and Electronics Engineering

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| 1 | Dr. Nisha G K (Chairman-Ex-officio) Professor | 2 | Dr. K K Sasi (UG Expert) Adjunct Professor Department of Energy Tezpur University Assam-784028 |
| 3 | Dr. Paul K Joseph (UG Expert) Professor Department of Electrical Engineering National Institute of Technology Calicut-673601 | 4 | Dr. Isha T B (PG Expert) Professor , Department of Electrical Engineering, National Institute of Science and Technology, Arunachal Pradesh, India-791112. |
| 5 | Late. Dr. Vijayakumari A (PG Expert) (passed away in May 2021) | 6 | Dr. I Jacob Raglend (newly assigned) (PG Expert) Professor School of Electrical Engineering Department of Electrical and Electronics Engineering Vellore Institute of Technology Vellore – 632 014 Tamil Nadu - India |
| 7 | Mr. Premsagar B (Industry Expert) Deputy General Manager HLL Lifecare Ltd. Akkulam Factory Sreekaryam P.O Thiruvananthapuram-695017 | 8 | Mr. Nandagopal J L (Alumni Rep) Scientist/Engineer SD Space Transportation System Vikram Sarabhai Space Centre ISRO Trivandrum, Kerala 695022 |
| 9 | Ms. Elizabeth Varghese, Associate Professor | 10 | Mr. R S Praveen Raj, Assistant Professor |
| 11 | Ms. P Sheenu, Assistant Professor | 12 | Mr. F R Rejish Babu, Assistant Professor |
| 13 | Ms. P Sandhya, Assistant Professor | 14 | Ms. Jomole Joseph Peedikayil, Assistant Professor |
| 15 | Ms. A V Soumya, Assistant Professor | 16 | Ms. Shyju Susan Mathew, Assistant Professor |
| 17 | Ms. Manju Sreekumar, Assistant Professor | 18 | Ms. C Sojy Rajan, Assistant Professor |
| 19 | Ms. Manju Ann Mathews, Assistant Professor | 20 | Ms. Surasmi N L, Assistant Professor |
| 21 | Ms. Vandana P, Assistant Professor | 22 | Ms. Anu Gopinath, Assistant Professor |
| 23 | Mr. Aswin R B, Assistant Professor | 24 | Ms. Archana A N, Assistant Professor |
| 25 | Ms. Jeneena Babu, Assistant Professor | 26 | Ms. Shilpa Susan Peter, Assistant |

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| | | | Professor |
| 27 | Ms. Ashni Elisa George, Assistant Professor | 28 | Dr. Shalu George K (Member Secretary), Assistant Professor |
| 29 | Nominee of KTU (1) | | |

Department of Electronics and Communication Engineering

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|----|--|----|---|
| 1 | Dr. J. Jayakumari (Chairman-Ex-officio), Professor | 2 | Dr. Deepthi P.P. (U G Expert), Professor & Head, Dept of ECE, National Institute of Technology, Calicut, Kerala. |
| 3 | Dr. S Raghavan (U G Expert), Visiting Professor, Dept of ECE, National Institute of Technology, Tiruchirappalli.E | 4 | Dr. P Muthuchidambaranathan (P G Expert), Professor& Head, Dept of ECE, National Institute of Technology, Tiruchirappalli. |
| 5 | Dr. M Meenakshi (P G Expert), Professor, Dept of ECE, College of Engineering, Guindy, Anna University, Chennai. E | 6 | Dr S.M Sameer (P G Expert), Professor, Dept of ECE, National Institute of Technology, Calicut, Kerala. |
| 7 | Dr. K. Giridhar (Co-opted), Professor, EE Dept, IIT Madras | 8 | Dr. Seena V. (Co-opted), Associate Professor, Department of Avionics, Indian Institute of Space Science and Technology, Valiamala, Thiruvananthapuram |
| 9 | Mr. Balmurali L (Industry Expert), Director - Quality and Testing , SFO Technologies Software Division, Cochin | 10 | Ms. Minu Maria Joseph (Alumni Rep) Senior Engineer, Tata Elxsi Limited, Technopark, Kazhakkootam, Trivandrum. |
| 11 | Prof. S Viswanatha Rao, Professor & Vice Principal | 12 | Dr. Paul Thomas, Professor & Dean (PG) |
| 13 | Dr. M. J. Jayashree, Professor & IQAC Coordinator | 14 | Ms. Luxy Mathews, Associate. Professor |
| 15 | Ms. Ancy S. Anselam(Member Secretary), Associate Professor | 16 | Ms. Swapna P.S, Assistant Professor |
| 17 | Ms. Teena Rajan, Assistant Professor | 18 | Dr. Sreedevi P, Assistant Professor |
| 19 | Ms. Deepa P.L, Assistant Professor | 20 | Ms. Lani Rachel Mathew, Assistant Professor |
| 21 | Mr. Jinu Baby, Assistant Professor | 22 | Ms. Ann Mary Alex, Assistant Professor |

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| 23 | Mr. Anoop K. Johnson, Assistant Professor | 24 | Ms. Athira V, Assistant Professor |
| 25 | Ms. Remya Annie Eapen, Assistant Professor | 26 | Ms. P.P. Hema, Assistant Professor |
| 27 | Ms. Riya John, Assistant Professor | 28 | Ms. Lakshmy S, Assistant Professor |
| 29 | Mr. Shiras S. N, Assistant Professor | 30 | Ms. Anu Susan Philip, Assistant Professor |
| 31 | Mr. Sherry Varghese George, Assistant Professor | 32 | Ms. Roselin Raju, Assistant Professor |
| 33 | Ms. Amritha B.J, Assistant Professor | 34 | Ms. Ancy Joy, Assistant Professor |
| 35 | Mr. Arun J.S, Assistant Professor | 36 | Mr. Jithin M. George, Assistant Professor |
| 37 | Mr. Jijo Jose, Assistant Professor | 38 | Nominee of KTU (1) |

Department of Mechanical Engineering

| | | | |
|----|--|----|--|
| 1 | Dr. Rajesh T N (Chairman-Ex-officio), Associate Professor | 2 | Dr. T Jayachandran (UG Expert), Visiting Professor, Department of Aerospace Engineering, IIT Madras. |
| 3 | Dr. P K Rajendra Kumar(UG Expert), Professor, Department of Mechanical Engineering, National Institute of Technology, Calicut, Kerala. | 4 | Dr. Praveen Krishna (PG Expert) Associate Professor, Department of Aerospace Engineering, Indian Institute of Space Science and Technology, Trivandrum, Kerala. |
| 5 | Dr Sujatha C(PG Expert) Professor, Department of Mechanical Engineering, IIT Madras Chennai. | 6 | Dr. T. K. Suresh Babu (Industry Expert) Professor, School of Management Studies, National Institute of Technology, Calicut, Kerala. Former Training and Placement Officer, NIT Calicut. |
| 7 | Mr. Jagajith S. (Alumni Rep) Assistant Professor, Department of Mechanical Engineering, College of Engineering, Trivandrum, Kerala. | 8 | Dr. K. Muraleedharan Nair, Professor |
| 9 | Mr. Remil George Thomas, Associate Professor | 10 | Mr. Pradeep M., Associate Professor |
| 11 | Dr. Nidhi M. B., Associate Professor | 12 | Dr. Vinod V., Associate Professor |
| 13 | Mr. Ayswer A. S., Assistant Professor | 14 | Dr. Premchand V. P., Assistant Professor |
| 15 | Mr. Arvind P., Assistant Professor | 16 | Dr. Deepak G. Dilip, Assistant Professor |

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| 17 | Mr. Deepak B., Assistant Professor | 18 | Mr. Roshan George Koshy, Assistant Professor |
| 19 | Mr. Ajeesh M. V., Assistant Professor | 20 | Mr. Kedar Mohan, Assistant Professor |
| 21 | Mr. Deepak B. S. (Member Secretary) , Assistant Professor | 22 | Mr. Bobin Saji George, Assistant Professor |
| 23 | Mr. Vishnu Asok J. S., Assistant Professor | 24 | Mr. Melvin Jacob, Assistant Professor |
| 25 | Mr. Vaisakh S. Nair, Assistant Professor | 26 | Mr. Emmanuel Ruben Gilbert, Assistant Professor |
| 27 | Mr. Ananthan S. P, Assistant Professor. | 28 | Mr. Alen K. Johnson, Assistant Professor |
| 29 | Mr. Abhiram R. Nair, Assistant Professor | 30 | Mr. AkhilChandran B. S., Assistant Professor |
| 31 | Dr. P. S. Prasanth, Assistant Professor | 32 | Mr. Mobin M. Mathew, Assistant Professor |
| 33 | Mr. Bipin Sankar, Assistant Professor | 34 | Nominee of KTU (1) |

Department of Science and Humanities

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|----|--|----|--|
| 1 | Prof. Joseph Cheriyan (Chairman-Ex-officio) Professor | 2 | Dr. Raju K George Outstanding Professor At IIST,Thiruvananthapuram,Kerala |
| 3 | Dr. P J Jacob Associate Professor of English at Mar Ivanios College [Autonomous] Thiruvananthapuram, Kerala. | 4 | Mr.Jose Gheevarghese(Industry Expert) Senior Project Manager, Infosys Pvt Ltd Trivandrum. |
| 5 | Mr.Midhun G(Alumni Rep) Program Manager, AIML Program, Operations Great Learning, Bangalore. | 6 | Dr.K. Chandrasekharan Professor, Department of Physics, National Institute of Technology Calicut, Kozhikode-673 601. |
| 7 | Dr.Lisa Sreejith Professor, Department of Chemistry National Institute of Technology Salient Kozhikode-673 601 | 8 | Dr.George Zachariah, Professor & Dean Student Affairs |
| 9 | Prof.Y Mathew, Professor | 10 | Ms.Sabitha S Nair (Member Secretary), Assistant Professor |
| 11 | Ms.Lekshmi.I | 12 | Ms.Lakshmi.J.S |

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|----|--|----|---|
| | Assistant Professor | | Assistant Professor |
| 13 | Ms.Jisha .J.J Assistant Professor | 14 | Ms.Uma.M Assistant Professor |
| 15 | Dr.Archana P.Das Assistant Professor | 16 | Dr.Krishna Mohan G.P Assistant Professor |
| 17 | Dr.Veena Nair Assistant Professor | 18 | Mr.Vinu.V Assistant Professor |
| 19 | Dr.Vidya Vilas Assistant Professor | 20 | Ms.Deleesa Babu Assistant Professor |
| 21 | Ms.Sruthi Janardhanan Assistant Professor | 22 | Ms. Salini K.S Assistant Professor |
| 23 | Dr.Suvith.V.S Assistant Professor | 24 | Mr.Anish M.S Assistant Professor |
| 25 | Nominee of KTU (1) | | |

5.4 Finance Committee - Meetings and Members

04.03.2021, 11 am

Members:

1. Rev. Fr John Vilayil, Bursar
2. Dr Abraham T Mathew, Principal
3. Dr George Zachariah, Dean (SA) and Professor, S& H
4. Member to be nominated by the affiliated University (APJAKTU)

5.5 Other Committees

5.5.1 Internal Quality Assurance Cell

Quality assurance is essential for sustaining excellence. So, with an increased focus on quality and to meet the statutory requirements of the University and of the UGC under autonomy, College has reconstituted the IQAC. Academic audit is regularly conducted and the reports are furnished to the University. Annual submission of the Academic Quality Assurance report to the NAAC is also under the purview of the IQAC. Academic Audits are conducted during Nov 2020 in the Odd semester and during April 2021 in the even semester. Administrative Audit (Internal) is conducted during April 11th, 12th and 13th 2021

Meetings and Members of IQAC

27.08.2020, 9.30am – 9.50am

24.02.2021, 10.30 am -1 pm

| | |
|---|--|
| Chairperson: | Dr. Abraham T Mathew, Principal |
| Vice Chairperson: | Prof. S. Viswanatha Rao, Vice Principal & Dean (Academic Affairs –UG) (Coordinator – Strategic Planning) |
| Management Representative: | Rev.Fr. John Vilayil, Bursar. |
| Senior Advisor: | Prof. George Zachariah, Professor, S&H & Dean (Student Affairs) (Coordinator – NAAC) |
| IQAC Coordinator: | Dr. Jayashree M.J., Professor, ECE (Coordinator – Audits, UGC Reporting & Member Secretary IQAC) |
| Members: Administrative Officer(s): | Prof. (Dr.) Paul Thomas, Dean (Post Graduate Studies and Research) |
| | Dr. Neethu Roy, Asst. Dean (Research and Consultancy) (Coordinator – NBA) |
| | Dr. Muraleedharan Nair K. , Dean (Administration) |
| | Mr Pradeep M., Assoc. Professor, MED & Controller of Examinations |
| | Dr. Tessy Mathew, HoD, CSE |
| | Dr. Jayasree S. HoD, CED |
| | Dr JayaKumari J., HoD, ECE |
| | Dr. Nisha G.K. HoD, EEE |
| | Dr. Rajesh T. N., HoD, MED |
| | Prof. Joseph Cherian, HoD, S&H |
| | Ms. Christi Francis, HoD, PED |
| | Prof Raju K Gopal, ITMS Head, Professor, CSE |
| | Ms. Sabitha S.Nair., Asst. Professor, S&H |
| | Ms Lakshmy S. Asst. Professor, Dept. of ECE (Coordinator – Statutory Reports) |
| Members: Faculty | Ms. Swapna P.S., Asst. Professor, ECE, Associate Coordinator, NBA, |
| | Ms. Deepa P.L., Asst. Professor, ECE, Associate Coordinator, NAAC |
| | Mr. G.L. Praveen, Asst. Professor, CSE, Associate Coordinator, Audits |
| | Ms. Shyju Susan Mathew, Asst. Professor, EEE, Associate Coordinator, UGC Reporting |
| | Ms.Jaya S. Pillai, Asst. Professor, CED |
| | Mr Arvind P., Asst. Professor, MED |
| Nominees from Alumni: | Mr. Ajithkumar G S, 2011- CSE Mr. Jerin Chacko, 2007- EED |
| Nominee from local society : | Mr Jojimon Thomas, Vice President, PTA |
| Nominees from Employers / Industrialists / Stakeholders : | Mr. Biju Philip, Sr. Vice President, Envestnet. |
| Nominee from Professional body : | Mr. Aditya S., IET |
| Administrative Staff representative: | Mr. Mohan George, Office Superintendent |
| Library Representative: | Mr. Binu K John, Librarian |
| Lab Staff Representative: | Ms. Linumole K. C. (Lab Instructor) |
| Student Representative: | Senate Chairperson / General Secretary |

5.5.2 College Council - Meetings and Members

01.06.2020, 10 am
15.06.2020, 10 am
14.07.2020, 9:30 am
19.08.2020, 10 am
27.08.2020, 10 am
29.09.2020, 10 am
09.10.2020, 11 am
16.10.2020, 3 pm
20.10.2020 and 21.10.2020, 4 pm
09.11.2020, 10:30 am
23.11.2020, 10:30 am
12.01.2021 and 18.01.2021, 10:30 am
01.03.2021, 10:30 am
31.05.2021, 3:30 am

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|----|---|
| 1 | Rev. Fr. John Vilayil, Bursar |
| 2 | Dr Abraham T Mathew, Principal |
| 3 | Prof. S Viswanatha Rao, Vice Principal and Dean (Academic Affairs-UG) |
| 4 | Dr Paul Thomas, Dean (PG Studies & Research) |
| 5 | Dr Neethu Roy, Dean (Research & Consultancy) |
| 6 | Dr George Zacharia, Dean (Student Affairs), NAAC Coordinator |
| 7 | Dr K Muraleedharan Nair (Dean - Administration) |
| 8 | Mr Pradeep M (Controller of Examinations) |
| 9 | Dr M J Jayashree, IQAC Coordinator |
| 10 | Prof. Joseph Cheriyan, HOD S&H |
| 11 | Dr Jayasree S, HOD CE |
| 12 | Dr Tessy Mathew, HOD CSE |
| 13 | Dr Jayakumari J, HOD ECE |
| 14 | Dr Nisha G K, HOD EEE, Camp Officer - KTU Valuation |
| 15 | Dr Rajesh T N, HOD ME |
| 16 | Ms Christi Francis, HOD PE |
| 17 | Prof. Raju K Gopal, Head, ITMS |

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| 18 | Ms Elizabeth Varghese, Admission-in-charge |
| 19 | Ms Asha S, (KTU & Exams) |
| 20 | Dr Archana P Das, First Year Coordinator |
| 21 | Ms Lakshmy S, Coordinator-Statutory |
| 22 | Ms Jomole Joseph P, Member Secretary |

5.5.3 Research Promotion Committee - Meetings and Members

07.05.2021, 3.00 pm

15.05.2021, 9.30 am

| # | Name and Designation |
|----|---|
| 1 | Dr Abraham T Mathew, Principal |
| 2 | Prof. S Viswanatha Rao, Vice Principal and Dean (Academic Affairs-UG) |
| 3 | Dr Paul Thomas, Dean (PG Studies & Research) |
| 4 | Dr Neethu Roy, Dean (Research & Consultancy) |
| 5 | Prof. Joseph Cheriyan, HOD S&H |
| 6 | Dr Jayasree S, HOD CE |
| 7 | Dr Tessy Mathew, HOD CSE |
| 8 | Dr Jayakumari J, HOD ECE |
| 9 | Dr Nisha G K, HOD EEE |
| 10 | Dr Rajesh T N, HOD ME |

5.5.4 Corporate Relations Council - Meetings and Members

02.10.2020, 10:00 am - 12:00 pm

07.12.2020, 9.30-11:30 am

02.02.2021, 10:00 am- 12:15 pm

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| 1 | Dr. T. M. George- Director, Corporate Relations |
| 2 | Dr. Abraham T Mathew- Principal |
| 3 | Prof. S Viswanatha Rao- Vice Principal, Dean (Academic Affairs-UG) |
| 4 | Rev. Fr John Vilayil- Bursar |
| 5 | Dr. Jayashree M J, Professor ECED, IQAC Coordinator, President IIC |
| 6 | Dr. Jayasree S-HOD CE |

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| 7 | Dr. Tessy Mathew-HOD CSE |
| 8 | Dr. Jayakumari J-HOD ECE |
| 9 | Dr. Nisha G K-HOD EEE |
| 10 | Dr. Rajesh T N-HOD ME |
| 11 | Prof. Joseph Cheriyan-HOD S&H |
| 12 | Mr. Vipinkumar K C-COO Corporate Relations |

6. Extension activities undertaken

- College has been selected by the Water Resources Department of Government of Kerala as one of the Colleges for Rejuvenation of Karamana River along with other Colleges in Trivandrum based on the directions from the National Green Tribunal and completed the tasks of the water quality measurement for DPR Preparation.
- The Department of Civil Engineering took up the consultancy work of a house of one of our members of the MBCET family. Site survey, building design, plumbing, cost estimation and monitoring of works were carried out in the consultancy. Mr. Jomy Joseph, Assistant Professor, took charge of the consultancy work.
- Illumina, Department Association of EEE has contributed to a noble cause as a part of Social service by doing the Electrification work of two houses with the support of the Faculty and the Technical staff. The work was completed during April 2021.
- The Association of Department of EEE, Illumina along with IEI electrical department student chapter in association with KSEB Ltd and Energy Management Centre organised an online Symposium as a part of student awareness - Urja Pariraksh, an expert webinar series followed by a competition which is open to students from class 9th. The purpose of this event is to educate the participants on the practice of electrical energy savings. This campaign is conducted as a series of seven interactive sessions by experts in the field wrapped around a competition. The total prize money is worth Rs. 20,000/- sponsored by Vydyuti Energy Services (VES). 531 participants registered for the programme. Faculty coordinators: Ms. Manju Sreekumar and Ms. Keerti S Nair.
- “CATALYZER”- an automatic hand sanitizer dispenser, was developed and installed by the students of Dept. of ECE, at the Office of the Bursar and various Government Offices, namely Police Station, Post Office, KSEB Office and ESI Office at Kallambalam and Village Office at Thottakadu.
- Assistive Technology Group conducted internships and events to inculcate awareness about the use of technology for the benefit of those who are differently-abled.

7. Financial report

| Item | Unutilized Grant available from Previous Year | Resources generated through fees and other sources | Grant received from UGC and other funding agencies during the year | Expenditure during the year | Unspent balance | Remarks |
|-------------------------|---|--|--|-----------------------------|-----------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| Building | NIL | 34,500,000.00 | NIL | 23,130,140.00 | | College has not received any Grant in Aid from UGC |
| Guest Faculty | | 90,000.00 | | 86,325.00 | | |
| Orientation of Teachers | | 50,000.00 | | 43,133.00 | | |
| Redesigning of courses | | | | 58,000.00 | | |
| Workshop /Seminars | | 250,000.00 | | 189,917.00 | | |
| Others | | 46,635,000.00 | | 31,380,271.60 | | |
| Office/Teaching | | 117,910,000.00 | | 116,193,057.00 | | |
| Laboratory Equipments | | 5,500,000.00 | | 2,069,001.00 | | |
| Furniture | | 500,000.00 | | 449,150.00 | | |
| Library | | 3,200,000.00 | | 1,386,362.00 | | |
| Meeting | | 25,000.00 | | 23,861.00 | | |
| Total | | 208,660,000.00 | | 175,009,217.60 | | |

8. Others

8.1 Campus Placements

In spite of the pandemic situation 23 companies have made 223 offers through the campus interviews conducted online as well as offline. With more opportunities in the pipeline, it is an encouraging sign. The major recruiters include TCS, Infosys, UST Global, QBurst, Cognizant, QuEST Global and Speridian. Others who have made offers include OSPYN Technologies, Experion Technologies, InApp, H & R BLOCK, ENVESTNET, PwAc, VVDN, Sporthood,

CAPGEMINI, Tech Mahindra, Wipro, GUIDEHOUSE and Accenture. In total 162 students have got placed.

8.2 Internships

Mar Baselios College of Engineering and Technology (MBCET) have registered in the AICTE Internship Enterprise portal in February 2021. The portal enables students to obtain internships where they can work in areas of their choice and get training as well as exposure to real-life engineering problems.

The college registration with Internshala, was done on February 6th, 2021. Through this, the students of MBCET are getting involved in engineering and management domains. Student ambassador programs, career talks, online trainings and upskilling programs, opportunities for paid and unpaid internships in core companies and a variety of domains through internship fairs – all these are made available through the registration in the AICTE portal and Internshala.

Various MoUs have been signed, opening up avenues for internship for our students. The MoUs are signed with institutes/organizations of repute, in various verticals, spanning across the departments. Interdisciplinary projects and teams comprising of different branches and years of study are encouraged among the students, so that learning and practical exposure is maximized, and an atmosphere of learning and excellence is created in the college.

8.3 Corporate Relations

College has set up the new portfolio of Corporate Relations with the former Principal Dr T M George as Director of Corporate Relations in October 2020. Innovation, Skill Development, industry collaborations and Innovation and Entrepreneurship Development Cell (Catalyst) are the portfolios envisaged to be handled by Corporate Relations. The team devised a semester-wise skill development programme – both soft skills and technical skills and is implemented from the current academic year. LoI has been signed with Wadhvani Foundation to conduct their Foundational Programme in Entrepreneurship (FC) and its Advanced course (AC). MBCET is the first college in Kerala to sign LoI with Wadhvani Foundation and the first batch is undergoing their FC now. MoU has signed GTech group of Companies – a consortium of 200 IT majors in Kerala, for skill development, faculty training etc. MBCET emerged as the first institution in Kerala to get 100000 Karma points in their skill development MuLearn platform. As part of Industry-Institute Linkage, a team of faculty members visited M/s Bildon Steels, Coimbatore, studied the process and submitted proposals for innovations for process improvement. The proposals are under their review now. Various proposals for employability and entrepreneurship development are underway.

Catalyst- The Innovation and Entrepreneurship Development Centre (IEDC) is the nodal body that has always aimed at exposing students to the world of innovators and entrepreneurs. Continuous interactions with leaders, entrepreneurs and visionaries have helped instil keen interest in students and encouraged them to venture and explore entrepreneurship.

Flagship Events like Catalyst Chats, Start-O-Vember, Socch, Idea generation and design thinking workshops engaged students through various activities that piqued interest among student

communities, which led these events to become a huge success and a great experience for many. The pandemic has posed a significant challenge, but IEDC and its members have embraced new technological methods by effectively leveraging the tools and platforms like Discord, Notion, Clubhouse etc. and still aim to promote the merits that help in creating future leaders.

8.4 Teaching and Learning Centre (TLC)

The Teaching and Learning Centre organised a number of workshops and seminars for the benefit of faculty.

A seminar on 'National Education Policy 2020: New Challenges and Opportunities for Technical Education in the Context of Autonomy' was conducted on March 23, 2021. Workshops on topics such as effective online teaching tools, Designing Questions to Assess Outcomes in Higher Learning Levels were also conducted for the benefit of faculty. The sessions were handled by experts from reputed organisations.

With an increased number of programs organised using online platforms, the faculty and staff had an opportunity to take part in a number of FDPs and Webinars according to the areas of their interest to keep them well updated in the field.

8.5 Faculty Development Programs (FDPs) Organised

Department of Civil Engineering conducted a 5-day FDP on 'Recent Advances in Seismic and Wind Load Analysis' from 7 to 11 June 2021.

Department of Computer Science and Engineering conducted an AICTE sponsored STTP on 'High Performance Computing and Deep Learning for Image and Text Analysis' from 22 to 27 Feb 2021.

The Department of Electrical and Electronics Engineering organised an ISTE Sponsored One Week Online Faculty Development Programme (FDP) on 'Smart Power Grid Technologies - Trends, Opportunities and Challenges' (SPGTOC '21) from 3 to 8 May 2021.

A 3-day online Faculty Development Programme (FDP) on 'Modern Control Techniques in Electrical Systems' (MCTES '20) was organised by the Department of Electrical & Electronics Engineering, from 28 to 30 December 2020.

A 6-day Faculty Development Programme on 'Performance Improvement in Smart Grid using Artificial Intelligence Techniques' (PISGAI 2020) was organised online by the Department of Electrical & Electronics Engineering, from 23 November 2020 to 28 November 2020.

Department of Electronics and Communication Engineering organised a 6-day FDP on Biomedical Engineering and its Applications from 11 to 16 January 2021.

8.6 Faculty Achievements

The faculty have made a number of notable contributions to the professional community by taking up roles such as reviewers of reputed journals, members of University Boards of Study,

Chairs of technical sessions for Conferences, resource persons for training & development, evaluators of external project proposals and volunteering as members of Professional Societies.

- Dr. Krishnamohan G.P. authored the book, "DJMol: A Generic Open source Modeling Platform for Computational Materials Science and Chemistry", ISBN 9-789-35407-1041. He received a grant of Rs 4, 50, 000/- from Indo-Korea Science and Technology Center, Bangalore, to develop a Linux version of DJMol.
- Dr. George Zachariah was awarded the Balraj Puraskaram 2021 for the best Malayalam Novel for his novel Utpavanam.
- A technical paper published by Ms. Shini Renjith, Asst. Professor, Dept. of CSE, titled "An Integrated Framework to Recommend Personalized Retention Actions to Control B2C E-Commerce Customer Churn" as part of her research work, has been cited by a United States patent granted to Amazon Technologies, Inc., with Patent ID US10853867B1, during the month of Dec 2020.
- Dr. M.J. Jayashree, received the Special Recognition Award, for her contributions towards building IEEE EMBS Kerala Chapter Student Community in exceeding goals and surpassing expectations during the IEEE EMBS Kerala Chapter Annual General Meeting held on 20th February 2021.
- The paper titled 'A comparative Analysis of Deep Neural Networks for Brain Tumor Detection' by Ms. Deepa P L, won the 'Best Paper of the session' in the IEEE Sponsored 3rd IEEE International Conference on Signal Processing and Communication (ICSPC'21) held at Karunya Institute of Technology and Sciences, Coimbatore during 13- 14 May, 2021.
- Ms. A. N. Archana was ranked third for actively participating in the community at 12th IEEE Power and Energy Conference at Illinois (PECI 2021) organized by the IEEE PES/PELS/IAS Joint Student Chapter at the University of Illinois, Urbana–Champaign, USA on 1-2 April 2021.
- Ms. Jomole Joseph won the Best On-Campus Faculty Advisor IET KKLN Award.
- Dr. Nidhi M. B. Associate Professor, MED was selected as the Best faculty Advisor, ISTE student chapter for the year 2019-20.
- Ms. Salini K.S. co-authored the book "Art of Delineation: Unveiling the characterization in Malayalam Movies" (ISBN No. 9788195034550). She also authored the book "Behavioural characteristics among children of workaholic parents: A quantitative study".

8.7 Professional Bodies and Societies

In spite of the pandemic Professional societies remained very active through their student branches. Thanks to the online technologies, a number of events were organised by the student branches of IEEE, IET, ISTE, ASCE, IPA, ASME and ISHRAE. In addition, contributions were made by the students associations of the respective departments.

• **IEEE SB** and the different IEEE societies PES, EMBS, SPS, CS, RAS and WIE organised a total number of 46 events that includes technical as well as activities of social relevance. Most of the events were conducted using online platforms and they attracted a large number of participants.

Building Sustainable Businesses-Understanding Corporate Sustainability was a webinar session conducted by IEEE MBCET SB to make students aware of the opportunities for sustainability in the corporate world 11 May 2021. ‘Stories of Fitting In And Standing Out’ was a prestigious event conducted by IEEE SB MBCET on 15th September 2020, the Engineers’ Day. The event was conducted to deal with impostor syndrome and how a person should face various challenges in work-life.

PiBotics was a 2-day workshop on Raspberry Pi taken by two of IEEE RAS SB members of MBCET, Vishnu P Kumar and Souraf N S. The event conducted during 27-28 May 2021 was aimed at giving a kickstart with the topic and inspire students to do more projects on the topic

•**The IET MBCET On Campus** had got selected for the Global Sustainability Challenge, as one of the 4 finalists from India for their project, the Outreach 150, an initiative to reach out to the community to extend our skills as well as to learn how the engineering fraternity can make an impact or change, for a better and sustainable living among those in need. Through Outreach150, The IET MBCET On Campus is working in collaboration with Govt. and Pvt institutions such as the local nodal office Kerala Institute of Local Administration (KILA), Vidyuthi Energy Services Ltd, and reach out to the communities to create sustainable solutions that align to the UN SDGs.

IET MBCET organized a number of events that includes ‘Skill-X’, a domain focused initiative to enhance the technical skills of students and improve their employability skills and a ‘Fine Tune Talks’, a series of personality development talks engage the audience on topics that help to add value to their professional skills.

•**The ISTE MBCET Faculty Chapter** organised the ISTE state Faculty convention on 23 Jan 2021 which was inaugurated by Shri. Arif Mohammed Khan, Hon. Governor of Kerala. Over 300 experts from industry and academia participated. The ISTE Chapter conducted over 100 plus activities successfully and received from ISTE Kerala Section the Award for Maximum Variety of Events.

•**MBCET Student Chapter of ASCE** conducted technical sessions in various core areas like QGIS, Smarty City, Sustainable Construction Materials, Prestressed Concrete, Urban Street Design etc. The chapter also conducted many community outreach activities that included lunch for the residents of charity home and the needy during lockdown period and provision of essential supplies such as gloves, masks, and PP kits for the Covid-19 frontline workers.

•**ASME MBCET Chapter** conducted MECHATHON, a series of workshops as an introduction to computational simulation softwares. They included “Workshop on Ansys FLUENT” and “Workshop on Ansys Structural”.

•**ISHRAE** A webinar -Cosmos, Mysteries and a Teeny Tiny Stardust was conducted in light of the International space week. The ISHRAE job junction, a preliminary examination which gives placement opportunities to the students in the HVAC field was conducted. An online induction program for first year students was also conducted as a part of welcoming them to the college and introducing the chapter activities.

8.8 Institute innovation Council (IIC)

Institute Innovation Council is a spoke of the Innovation Council of the Ministry of Education, Government of India. College has received a certificate with 4.5 out of 5 star rating for the Year 2019-2020 for conducting various activities to foster a culture of innovation. More than 30 activities were conducted as part of IIC initiative. In addition, faculty members from MBCET attended the Innovation Ambassador training and the students participated in the National Innovation Contest 2020 as well as the Smart India Hackathon 2020.

8.9 Outreach Activities undertaken

The **societal wings** of the different departments actively volunteered to provide support to the less privileged in the society. Their activities include supply of essential commodities, financial support to the needy as well as learning materials to children who can't afford them.

Though there were constraints in conducting activities requiring physical presence and teamwork, the department associations and various student clubs resorted to events online providing the students a welcome change from the constrained environment they were subjected to.

The College celebrated the days of national/international importance by organizing events and actively participating in them. These include Independence Day, Republic Day, Environment Day, Teachers Day and International Yoga Day.

8.9.1 National Service Scheme (NSS) - Activities

NSS Unit 230 of MBCET under NSS Cell of KTU organised 90 events with social relevance during the academic year 2020-'21. Though most of them were online, a good number of events were conducted offline, serving the society while keeping in mind the protocols to be followed due to the pandemic situation.

The volunteers visited Sneha Veedu, a destitute home at Nalanchira, Thiruvananthapuram, on 25 January 2021 and spent their time interacting with the people staying there and cleaning the premises; the volunteers distributed sweets and entertained the inmates with various cultural programmes.

Followed by a cancer awareness programme conducted on World Cancer Day (February 4th), on 14th February 2020 the NSS volunteers of unit 230 organised a fundraiser event.

NSS unit members celebrated June 5th, the World Environment Day by planting saplings in their houses as the regular activities/environment awareness programs couldn't be conducted due to the spread of the pandemic Covid-19.

A food donation drive was conducted on 28th March 2021. The student volunteers actively participated in the collection and distribution, covering some of the main locations in Thiruvananthapuram. The event was a huge success with food packets being immediately distributed to the needy.

8.9.2 Unnat Bharat Abhiyan (UBA) - Activities

- Qz-Fiesta (August 2020)- UBA cell of MBCET under the mentoring of Dr. Neeradha C.K. conducted a National Online Quiz Competition named as Qz-Fiesta with 1250 students from the whole India. After completion of four rounds Kalp Rawat, Cambridge School, Rajasthan won the first position. S Bhanulal , NSS HSS, Kaviyoor ,Kerala won the second prize and there was a tie breaker round for the third prize between two contestants Glory P Roy and Kanika Jain. Kanika Jain won the tie and got the third prize. The winners were awarded a cash prize of rupees 10000, 5000, and 2500 respectively.
- The novel coronavirus pandemic, COVID-19, is creating a chaotic situation with varied impacts around the world and in the country. As a part of UBA activities, student members of MBCET in association with Sparsham have distributed 100 Covid Kit (400 Masks and 100 sanitisers) to the students of Government Boys High School, Kanniakulangara on 6th January 2021. And released a video about the Covid preventive measures for the students. Mrs. Beena J M President, Mr. Jagannathan Vice President and Mrs. Vasanthakumari Member of Vembayam Panchayat. Mr. Abdul Hakeem Head Master, Mr. Ashraf PTA President of Government Boys High School, Kanniakulangara, Fr. Bitty Thomas Assistant Bursar of Mar Baselios College of Engineering and Technology, Thiruvananthapuram were present for the meeting of distributing Covid Kit. This activity is the effort of UBA members of Mar Baselios College of Engineering and Technology, Thiruvananthapuram. Covid Kit contains 4 washable masks and a sanitizer. Cash for these are the voluntary contribution of the students of UBA MBCET. Covid Kit distribution shows the care towards the fellow being that it is necessary for the students, as the school plan to open in the pandemic situation.
- These masks and sanitisers are kept in a paper bag which is prepared with the calendar papers of the previous year with the help of IET MBCET and Nature Club MBCET. Paper bag is prepared by the students. Paper bag preparation create awareness about the care for the nature and sustainability in the young minds
- A small team of the Outreach 150 visited Manickal Panchayath of Pirappancode, which is one of the UBA selected villages, to get a brief idea about the geography and its possibilities, the local socio-economical and political climate, and the demography. The visit threw light on some factors in the village which the team plans to bring more focus on, such as the (i) proper waste management in tourists spots, (ii) awareness campaign on air pollution caused by quarrying, which is one of the major sources of income for the community and (iii) sustainable methods to provide electricity in low income communities.
- Demonstration of shortlisted CSIR Technologies (March 2021) -The faculty coordinators of UBA MBCET, Mr. Vinu V, Mr. Melvin Jacob, Ms. Teena Rajan had attended the demonstration of the shortlisted CSIR Technologies with the purpose of implementation in the country organised by Unnat Bharat Abhiyan (UBA) with Council of Scientific & Industrial Research (CSIR) and Vijnana Bharati (VIBHA) and the National Coordinating Institution (NCI), IIT Delhi on 19th March 2021 at CSIR-NIIST, Thiruvananthapuram
- The major objective of the demonstration was to disseminate the technologies to the society through Higher Educational Institutions and Communities such as voluntary

organizations, SHGs, CBEs, entrepreneurs, NGOs, other field groups, and villagers. The technologies could be deployed in the rural areas for development and generating livelihood opportunities.

8.9.3 MBCET Staff Club - Activities

- MBCET Staff Club took the initiative to build the house for a technical staff of Computer Science Department. An amount of 3, 40, 250/- was raised from the staff members, for the same. The college management had contributed an amount of Rs 4 Lakhs for the same. The construction work was completed under the supervision of staff from the Civil Engineering department and electrical work was done by the technical staff of the Electrical Engineering department.
- MBCET staff club conducted a family get together on 18th Dec 2019. The event was graced by our Patron, His Beatitude Moran Mor Baselios Cardinal Cleemis Catholicos. Huge turnouts of family members were there for the function. Kids exhibited their talents and gifts were given to them by our Rev. Patron. Also awards were distributed to staff members who excelled in various fields of their activities.
- During the first lockdown MBCET Staff Club donated an amount of 10,000/- towards the distribution of food kits for families who were really struggling to make their ends meet. This noble cause was made possible through Mr.D. Joykutty, Senior Office Assistant of MBCET
- MBCET staff club celebrated Onam-2020 in online mode. Staff members of the college came up with some good cultural performances. The event was streamed on YouTube.
- MBCET Staff Club jointly with Mar Ivanios College and other sister institutions in the Mar Ivanios Vidyanagar organized a vaccination drive on 17 June for the benefit of the faculty and their family members.

8.10 Sports and Games

Department of Physical Education has conducted one week activity program for the students, as part of the Student Induction Program, which included stretching exercise, rotation of joints, cardio-vascular exercise, and yogic exercise. The motive was to teach every student how to do an exercise properly and practicing it every day in their life. These activities would help them to concentrate in their studies and relieve stress to a great extent.

Though, this year no much sports activity was organized by the University or by sports council, the highlight has been the achievement in Squash Rackets Championship. Pran P of S7 ME-1 became the Champion in the State Men Squash Rackets Championship held at Chandrasekaran Nair Stadium, Trivandrum on 30 Dec 2020. He was facilitated and appreciated by Hon'ble. Governor of Mizoram Shri. P S Sreedharan Pillai for becoming Kerala number one player in Squash Rackets. Arjun U, Athira P and Apsara S represented Trivandrum District Netball team and secured First position and Anna Roy represented Idukki District Netball team and secured third position.

9. Conclusion

The College is happy and proud to submit the Annual Report for the year 2020-2021 to UGC as part of the compliance. We place on record our sincere gratitude to the UGC in providing the opportunity for enhancing the excellence in our academic processes. It is hereby certified that the information furnished in this report is true to the best of our knowledge and belief.

Place: Trivandrum

Date: 30-7-2021



Signature :

(digitally signed)

Dr Abraham T Mathew, Principal