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**MOHANDAS COLLEGE  
OF ENGINEERING AND TECHNOLOGY**  
(An ISO 9001:2008 Certified and  
NAAC Accredited Institution)

**STUDENTS' HANDBOOK**  
**(2020 – 2021)**

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## **VISION OF THE INSTITUTION**

To become a centre of excellence in technical education, promoting research and bringing out professionals with social commitment capable of contributing to individual and national prosperity.

## **MISSION OF THE INSTITUTION**

To produce excellent professionals with social commitment through state-of-the-art teaching-learning process assisted by highly qualified faculty, research, co-curricular and extra-curricular activities.

## **QUALITY POLICY**

This institution is committed to impart value added education of highest quality to the students by providing state-of-the-art facilities in order to mould them into competent professionals and better citizens. It also aims to enhance customer satisfaction through effective communication, application and continuous upgradation of quality management system.

### **1. ABOUT THE INSTITUTION**

Mohandas College of Engineering and Technology (MCET), Anad, Thiruvananthapuram, Kerala approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU) is a prestigious technical education project of the leading industrial group, the Mohandas Group of Companies, Thiruvananthapuram. MCET was established in 2002 by Sri G. Mohandas Chairman, VN Gangadhara Panicker (VNGP) Trust and Smt. Rani Mohandas, Secretary, VNGP Trust to fulfill the vision of late Shri. V N Gangadhara Panicker in the field of education.

The institution is the realization of the vision of the Management to provide quality Engineering education to aspiring students of Kerala and around.

The activities of the college are carried out by Dr. Ashalatha Thampuran as the Director and Dr. S. Sheela as the Principal. The Institution offers six B. Tech courses of four year duration, three M.Tech courses of two years duration and MCA course of two year duration. The Institution strictly adheres to the procedures and policies of AICTE and ISO. As a part of its quality assurance, the college has established IQAC, and received ISO 9001:2008 certification and NAAC accreditation.

The facilities and infrastructure of this college and its ambience enables the students to bring out the best in them. Consistent with its mission, MCET takes seriously its commitment to fostering and maintaining an environment conducive to student learning and growth through curricular and co-curricular programmes.

## **1.1 QUALITY ASSURANCE**

**ISO 9001:2008** - MCET is one of the first Engineering colleges in Kerala to acquire the ISO 9001:2000 certification in the year 2004. As part of the continuous upgradation, it has been recertified to ISO 9001:2008 in the year 2015. To establish this, the college had to adhere to international quality standards in its infrastructure and teaching-learning process. The recertification to ISO 9001:2015 will be carried out soon.

**NAAC** - The Peer team from NAAC visited the college during November 3-5, 2016 and conducted a detailed evaluation of the college and its facilities on a 7 point criteria. At the end of the visit the Peer team submitted an assessment report to NAAC. Based on the report submitted by the NAAC Peer team, NAAC has awarded Accreditation to our college. The accreditation is valid for 5 years from 02-12-2016.

**IQAC** - The College has an Internal Quality Assurance Cell which is monitoring and giving guidance to various activities. It comprises of Industry and Alumni representatives.

**Academic Audit** - The college has an internal audit cell to conduct the academic audit, in accordance with APJ Abdul Kalam Technological University requirements.

## **1.2 RANKING IN SURVEYS**

- MCET has been ranked as the fifth '**most-promising engineering colleges**' in the country, in a survey conducted jointly by Engineering Success Review (ESR) and Global Human Resources Development Centre (GHRDC).

- MCET has been ranked in 22<sup>nd</sup> position in ranking of Top Engineering college of Excellence in CSR & GHRDC 2016.
- MCET has received the 64<sup>th</sup> position in all India and 3<sup>rd</sup> position in all Kerala ranking in the survey conducted by DATAQUEST for the Private Technical schools.
- MHRD and AICTE collaborated with researchers from **Stanford University** to implement the “Assessing and Improving the Quality of Engineering Education” during Nov – Dec 2017, has been ranked that the students of Mohandas College of Engineering and Technology **have scored well** above **the mean score** for India, in various topics like **Electromagnetic Induction and Relativity and Quantum Physics** and **Critical Thinking**.
- Global Human Resource Development Center (GHRDC), CSR Engineering College Survey 2018 has ranked our institution, in 37<sup>th</sup> position of the South Zone of India.
- MCET has been ranked as the 4<sup>th</sup> in Kerala among top engineering colleges of excellence by CSR-GHRDC 2019 Engineering Colleges survey.

## **2. COURSES OFFERED**

### **2.1 Under graduate (B. Tech.) courses**

- Biotechnology & Biochemical Engineering : 60 seats
- Computer Science & Engineering : 60 seats
- Electronics & Communication Engineering : 60 seats
- Electrical & Electronics Engineering : 60 seats
- Mechanical Engineering : 60 seats
- Civil Engineering : 60 seats

### **2.2 Post graduate courses**

- Master of Computer Applications (MCA) : 60 seats
- M.Tech in Applied Electronics and Instrumentation : 18 seats
- M.Tech in Power Systems : 9 seats
- M.Tech in Computer Science and Engineering : 18 seats

### 3. LOCATION

The college is situated in 37 acres of green surroundings nestling in a picturesque ambience with splendid endowments of nature. The calm and quite ambience of the college is ideal for academic pursuits. It is located at Anad village in Nedumangad along the Trivandrum – Ponmudi route, a 20 km drive from Trivandrum city. Set in an idyllic location, the college offers the right environment within a short distance from the city.

### 4. DISTANCE CHART

Trivandrum International Airport	- 26 KM
Trivandrum Railway Station	- 20 KM
Trivandrum Bus Station	- 20 KM





## **5. THE PEOPLE BEHIND**

### **5.1 MANAGEMENT: V. N. Gangadhara Panicker Memorial Trust**

- **CHAIRMAN, Shri. G Mohandas** : VNGP Trust, Executive Trustee and son of Sri. V N Gangadhara Panicker is an eminent industrialist, educationalist, hotelier and prominent social personality. Quality is a hallmark that runs through all his institutions where standards are constantly monitored and bettered. Mohandas College of Engineering and Technology is also infused with high quality professionalism and aims to be the best in the field of technical education in the country.
- **SECRETARY, Smt. Rani Mohandas** : VNGP Trust, an astute businesswoman, is on the Board of a number of companies involved in the areas of hoteliering, plantations and leisure/entertainment industry.
- **TREASURER, Mr. Krishna Mohan** : VNGP Trust, is a third generation industrialist and businessman from the Panicker family with excellent administration skills and entrepreneurship, he plays a crucial role in the varied and vast interests of the Mohandas Group.
- **TRUSTEE, Mr. J Alexander IAS (Retd.)** : Former Chief Secretary of Govt. of Karnataka, Mr. Alexander has also held several other esteemed positions such as Registrar (Evaluation) – Mysore university, CEO-Karnataka State Road Transport Corporation etc.

### **5.2 EXECUTIVE DIRECTOR**

#### **Dr. Ashalatha Thampuran, M.Arch., PhD**

Dr. Ashalatha Thampuran is a renowned educationist and former Principal of College of Engineering, Trivandrum. Her vision in the field of education is the standard set for the college to

grow as a center of excellence.

Right from the beginning of her professional education at University of Kerala in Bachelors of Architecture and further at University of Roorkee in Master of Architecture, she has set high standards by securing the first rank in both. Later she did her training in Development Planning from London University. She took her doctorate from University of Kerala in Traditional Architecture. She has presented several papers at national and international forum.

### **5.3 PRINCIPAL**

#### **Dr. S. Sheela, M.Tech,Ph.D**

**Dr. S. Sheela** holds an M.Tech (Gold medal) from IIT Madras and PhD from Kerala University in Structural Engineering. She was the Principal of College of Engineering, Trivandrum. Earlier, she has served as Joint Director, Government of Kerala and the Principal of Government Engineering College, Barton hill. Her research interests include reinforced concrete, ferrocement, retrofitting and rehabilitation of RCC structures. Her overseas study visits include Queens University, Belfast, UK, University of Texas, Austin, USA and UiTM Shah Alam Selangor Darul Ehsam Malaysia. She has published number papers in the referred national and international journals.

### **5.4. HEADS OF DEPARTMENTS**

#### **i. Dr. Sheela Evangeline Y , M.Tech, Ph.D**

##### **HOD, Civil Engineering**

Dr. Sheela Evangeline Y acquired M. Tech degree from Indian Institute of Technology, Madras and Ph.D from Indian Institute of Technology, Delhi. Served in CET at different levels like advisor for PG and UG students, Lab in charge, Executive committee member of PTA, Research Coordinator, advisor for North East students, coordinator of FSDTP etc. She has supervised 25 M.Tech theses of the University of Kerala and published 68 papers and guiding three Ph.D Scholars. She has handled various research projects and she has co-authored a book "Coir Geotextiles- for sustainable infrastructure" and contributed articles to three books. Received Appreciation Award from Indian chapter of The International Geosynthetic Society for the year 2018-19. She was one of the organizing Secretaries of International Conference on Materials, Mechanics and Management in

2017. Presently Executive Committee member for iGRIP (Initiative for Geotechnical Research and Innovative Practice). Also geotextile consultant for Coir Board.

**ii. Dr. S. Shabu, M.Tech, Ph.D**

**HOD, Electronics & Communication Engineering (Dean – PG Studies)**

Dr. S. Shabu started Career as Lecturer in Electronics and Communication at College of Engineering, Trivandrum. Served at various Government Engineering Colleges in the state as Lecturer, Assistant Professor and Professor. Served as Professor and Head of Department of Information Technology at Govt. Engineering College, Idukki. Thereafter, served as Professor and Head of Department of Electronics and Communication, Dean (UG Studies), Dean (PG studies) and Principal at College of Engineering Trivandrum. Served as the first Controller of Examinations of APJ Abdul Kalam Technological University (KTU) for 4 years. M.Tech and Ph.D from College of Engineering, Trivandrum. More than 30 national and international level publications. Presented papers in many national and international conferences in India and abroad.

**iii. Dr. Predeep Kumar S.P, M.Tech, Ph.D**

**HOD, Computer Science and Engg. (Dean – Administration)**

Dr. Predeep Kumar S.P. obtained his M.Tech. Degree -Computer & Information Technology Engineering from Manonmanium Sundaranar University, Tirunelveli. He received Ph.D in Computer Science & Engineering from St. Peter's University. He has 18 years of experience in teaching and served in a various levels Lecturer, Co-ordinator, Assistant Professor, Associate Professor, Professor and Principal. He has handled various projects and published number of papers in well-known National and International Journals so far. He is also a Life Member of Indian Society for Technical Education (ISTE).

**iv. Dr. Deepa Nair, M.Tech, Ph.D**

**HOD, Electrical & Electronics Engg. (Dean – Students' Affairs)**

Dr. Deepa Nair obtained her M. Tech. from VJTI, Mumbai University (2006). A Ph.D. was awarded to her by National Institute of Technology Calicut on her thesis 'Simple Fast and Memory Conservative Methods for Dehazing High Resolution Images' (2020). She has served as a faculty in various

Institutes under Kerala University, Mumbai University and Goa University in the capacity of Lecturer, Assistant Professor and Associate Professor. She is also experienced in industry and software training field.

**v. Dr B Sivasubramonian , M.Tech, Ph.D, MBA**

**HOD, Mechanical Engineering**

Dr. B. Sivasubramonian had his BSc Engineering (Mechanical) and MBA from College of Engineering, Thiruvananthapuram. He obtained M.Tech (Mechanical- Heat Transfer and Thermal Power) and PhD from IIT Madras in field of Structural Engineering. An eminent faculty in engineering and a retired Scientist/Engineer from Vikram Sarabhai Space Centre, ISRO , he had 38 years of service in the field of aerospace Engineering. He has worked in SLV-3, PSLV, GSLV MKIII, RLV-TD and several other programmes. He was also appointed as Dr BrahmPrakash Professor at VSSC for continuing the activities related to software development on structural analysis.

**vi. Dr. K M Usha, M.Tech, Ph.D**

**HOD, Biotechnology & Biochemical Engineering**

Dr. K M Usha had taken her Ph.D & M.Tech from IIT Chennai, Graduation in chemical Engineering from Govt. Engg. college, Trichur. She was a former Group Director, VSSC. She has over 3 decades of research experience. She worked for finalizing the Syllabus for B.Tech. and M.Tech. Course (Chemical Sciences) of Indian Institute of Space Technology (IIST), ISRO, Thiruvananthapuram. She has guided several students pursuing B.Tech., M.Tech., Ph.D. She has also served as a resource person in evaluating research thesis leading to MS/Doctoral Degree of various universities of India.

**vii. Dr. V. Madhukar Mallayya, Ph.D**

**Prof & HOD, Mathematics Department**

Dr. V. Madhukar Mallayya has 31 years of teaching experience and was the coordinator of DST supported MG university approved research centre. He has to his credit 50 research papers published in various international /national journals. He is the Asst. editor of an internationally peer reviewed ISHM journal Ganitha Bharati.

**viii. Prof. Tomy Thomas**

**Career Guidance & Placement Officer**

Prof. Tomy Thomas has 15 years industry experience at senior level in reputed multinational IT companies and around 13 years of teaching experience. He has technical and professional experience in networking and telecommunication areas.

**ix. Prof. Tibi Edison, M.Tech**

**System Administrator & Associate Professor, MCA**

Prof. Tibi Edison has a total of 10 years of experience which includes both industry and teaching. He started his career as a programmer and worked in various positions as IT Manager and IT Head in various firms in India. He worked with Saudi ARAMCO as the IT & Controller Devices Specialist. Later he joined as Senior Lecturer and was promoted as Assistant & Associate Professor in the Dept. of Computer Science & Engg at various Engineering Colleges.

**x. Prof. Cletus. K . S, ME**

**Workshop Superintendent**

Prof. Cletus K S has 38 years of experience in industry in India and abroad, and around 8 years of teaching experience. He has worked as production manager in Olayan Kimbrly-Clark, Saudi Arabia and was Chief Engineer in Ministry of Health, Sultanate of Oman.

**xi. Mr. P. R . Krishnakumar ,MA, MLISc.**

**Chief Librarian**

Mr. P. R. KrishnaKumar has 17 years of work experience in British Library, Trivandrum. And was the Deputy Manager.

He was a Member of the Board of Studies of the Department of Library and Information Science, University of Kerala during 2002 -2005.

## **6. DEPARTMENTS**

### **6.1 Biotechnology & Biochemical Engineering**

The four-year undergraduate B.Tech program in Biotechnology & Biochemical Engineering being offered in the department has the main objective to train students as leaders in research and development in industry and to produce good quality production engineers to cater to the needs of industries in the field of biotechnology and other allied fields. The curriculum of the course encompasses latest development in the field as well as present day and future needs of the industry. This undergraduate program has both great depth and breadth due to its extensive course requirements. The curriculum includes courses in biological sciences, chemical and biochemical engineering together with industrial training. An array of electives gives an opportunity for greater depth of learning in both biology and engineering applications.

Relative to many peer institutions, the undergraduate course offered in the department is enhanced due to a high level of interdisciplinary and cross-institution research and training interactions. The department is fully equipped with Biochemistry, Microbiology, Molecular Biology, Bioprocess Engineering, Fluid Flow, Enzyme Engineering, Heat and Mass Transfer, Downstream Processing and Computer lab. Software packages, "ASPEN PLUS"– Engineering suite and "CHEMCAD- Process simulations software" has been purchased for Software Laboratory. The Department has a research lab to undertake externally funded projects. The Department is also having a Department library to cater to the needs of the students.

Large numbers of our alumni are doing research in internationally acclaimed institutions, placed in various Biotech and software companies.

### **6.2 Computer Science & Engineering**

The department started in 2002 and offers B.Tech degree in Computer Science & Engineering. It is supported by state-of-the-art facility and excellent faculty. This professional course offers the students ample opportunities to contribute to the development of new technologies in this exciting field. The overall development of the department and improvement of student's intellectual quality is constantly monitored by faculty members who are well qualified, experienced and dynamic. The department provides lab facilities in programming, Database, Mobile computing, Microprocessor

Programming and web Application development. Sufficient computers are available for conducting different lab classes and doing projects.

### **6.2.1 Computer Science & Engineering (M.Tech)**

M.Tech course in Computer Science & Engineering was started in 2012. The department added additional facilities to meet enhanced technical requirements of M.Tech students. Periodic invited talks are conducted on relevant subjects. Adequate lab facilities are provided for student's seminar and project works. Library and lab are kept open for extended hours for their benefit.

## **6.3 Electrical & Electronics Engineering**

The B. Tech course in Electrical & Electronics engineering was started in the academic year 2004-05. The department has best facilities and faculty to provide knowledge on theoretical and practical aspects of different areas of electrical engineering. The program in Electrical and Electronics Engineering is designed with the purpose of preparing students both for a career in Electrical Engineering profession and for further studies in applied and theoretical research. This department is well equipped with lab facilities for the students which include Electrical & Electronics Workshop, Electrical Machines – I, Electronics Circuits, Measurements & Instrumentation lab, Power Electronics Lab, Microprocessor & Software lab, Power System lab, Digital Circuit Lab, Electrical Machines – II lab and Control & Instrumentation lab and Simulation Lab. The High Voltage Lab built at a cost of 65 lakhs has the potential to be a test and analysis centre. Steps have been initiated to accredit the lab.

### **6.3.1 Power System Engineering (M.Tech)**

Maintaining the reliable and efficient generation, transmission and distribution of electrical power is of the utmost importance in a world where electricity is the inevitable means of energy acquisition, transportation, and utilization, and the principle mode of communicating media. This course brings together comprehensive technical information on power system engineering, covering the fundamental theory of power systems and their components, and the related analytical approaches.

## **6.4 Electronics & Communication Engineering**

The Department of Electronics and Communication Engineering was established in the year 2002. Thus from a modest beginning in 2002, the department has come a long way. The department has always strived to maintain its high standards. Apart from the theoretical course work, the department believes that the students should have a sound knowledge in practical work. In view of the above the department is fully equipped with the different laboratories like Digital Signal Processing Lab, Microwave & Optical Communication Lab, Computer Lab with MATLAB and Simulation Software, Microprocessor Lab, Integrated Circuits Lab, Digital Electronics Lab, Electronics Circuits Lab and Electronics Workshop. The Department purchased 'Lab View' for student projects.

### **6.4.1 Applied Electronics and Instrumentation Engineering (M.Tech)**

AIEE is used extensively in automobile industry for the new generation instrument panels. Modern cars use different types of sensors to measure various engine parameters and the data thus collected are used to monitor and control the engine operation.

This course provides students with sound theoretical & practical training in the operation and design of electronic instruments, digital logic systems, distributed digital process control systems etc. The demand for applied electronic & instrumentation Engineers is growing rapidly and job opportunities for post graduates are multi-faceted.

## **6.5 Mechanical Engineering**

MCET started the undergraduate B.Tech degree course in Mechanical engineering in the year 2005. The objective of this department is excellence in technology by combining the basic knowledge with the groundbreaking support of workshop/lab practices. The Department runs add-on courses to the students to improve their skill and to help them to improve their employability. This department is well equipped with lab facilities for the students which include Engineering Workshop, Heat Engines Lab, Hydraulics Machines lab, Machine shop and CAD lab. CIM and Robotics lab, the only one of its kind in this university, costing lakhs is functional in this Department. The CNC lathe and Milling has been installed at the cost of 35 lakhs.



## **6.6 Civil Engineering**

Civil engineering is the oldest and broadest of the engineering fields. The Department is determined to ensure that students of all ability levels are well equipped to meet the challenges of work and life and to develop in themselves a sense of social commitment so that they would play a vital role in transforming the society.

The UG curriculum is broad-based and designed to introduce the students with a wide range of problems encountered by civil engineers. The major subjects dealt with are Surveying, Concrete Technology, Analysis and Design of Structures, Soil Mechanics and Foundation Engineering, Water Resources engineering, Environmental Engineering, Transportation Engineering etc. Electives and independently conducted projects are also offered to enable the students to develop additional depth in the areas of specific interest to them.

## **6.7 Master of Computer Application**

The department, started in 2005, offers post graduate degree in Computer Application (MCA). This six semester course in Computer Applications provides an extensive coverage of the latest IT curriculum, ideally suited to the student who wants to make a career in the fast growing IT Industry. On successful completion of MCA, a candidate will have numerous job opportunities in India and abroad. The department offers a practical orientation to computer applications, access to world class research, congenial & accessible faculty and an active student population. As a college department, it supports high-quality education and training.

The department of MCA is well equipped with a spacious computer labs. It also provides lab facilities in various programming languages- C, C++, java, databases like ORACLE & SQL. Mobile computing, Web Application Development, Data Analytics& Machine Learning.

## **6.8 Science & Mathematics Department**

The Science and Mathematics department carries out the Engineering Physics, Engineering chemistry and Mathematics subjects. Physics and Chemistry Labs are set up to conduct the practical classes.

## **6.9 System Administration Department**

The College has a System Administration Department. The campus consists of around 650 computers and various peripherals. There are twelve technical staff who manage and handle all the IT requirements and services within the college campus. This department is responsible for maintaining the IT infrastructure of the campus including all the computer systems, network systems etc. System service center does the maintenance of all the Servers, Desktops and Laptops, Projectors, Printers, Scanners etc. Our college is one of the leading online examination center conducted by CEE (Kerala), NSEIT, TCS and other companies.

## **7. What makes us unique?**

The College has several strands of distinction which interweave to make it a College with a difference.

### **7.1 Academic excellence with State of the art Infrastructure**

MCET ensures quality in student-centric teaching and learning, and promoting research culture among faculty and students. The College has excellent infrastructure facilities to enable this. Situated in a green picturesque environment, the college has well ventilated and spacious classrooms, smart classes and seminar halls in each department, Wi-Fi is enabled in the selected areas of the campus, Well equipped general and department libraries, gymnasium, sport complex, hotels for boys and girls, auditorium etc.

### **7.2 Syllabus Supplements & Skill Building:**

The syllabus prescribed by the University is complemented and supplemented by additional inputs by the College by way of ADD - ON courses, trainings and skill development programs. An active CGPC imparts necessary soft skills and employment oriented training and also organizes campus recruitments, job fairs etc. Each department conducts ADD - ON courses suitable to each branch. The college is also an authorized CISCO Networking training centre.

### **7.3 Teacher-student relationship:**

Students are given personal care by the teachers and this has paved the way for a warm relationship between students and teachers. Academic and personal support and mentoring are given to each student of the campus.

College has a unique mentoring scheme namely MS@MCET which is used to mentor students through well trained teachers and a professional counselor. The majority of teachers of the College are between 25 and 40 years of age, which helps them to easily build a healthy rapport with the youngsters.

### **7.4 Activity-Filled Vibrant Campus:**

MCET is a vibrant campus offering learning and research experience with a wide range of co – curricular and extra-curricular activities to choose from. There are technical fests, Clubs (technical and cultural), student associations, chapters of professional associations, NSS, intra college sport fests, and inter college tournaments, festivals and celebrations, campaigns and many other common initiatives and schemes by the students, for the students. Every year the college conducts National and International conferences and workshops to benefit the faculty and students.

## **8. RULES OF GENERAL DISCIPLINE AND CONDUCT**

Students are to strictly follow the following:

- Class timings: 8.30 AM to 3.30 PM with a lunch break from 12.05 PM to 12.55 PM for Higher Semesters of CSE, ECE, EEE & ME and the lunch break from 11:15 AM to 12:05 PM for S1/S2, Higher semesters of CE, BT & BCE , MCA & M.Tech students.
- The students should be inside the classroom before 8.30 AM.
- Students will not be permitted to leave the campus between 8.30 AM and 3.30PM without the prior permission/sanction of the Director / Principal. If the students leave the campus without proper authority, the matter will be informed to the parents. If it is repeated a fine will be collected on intimation to the parents.
- Unauthorized absence from the classes will be taken seriously and disciplinary action will be taken. Sanction should be obtained from the HOD in advance for all absence. If the absence is more than 3 days, medical certificate should be produced. All medical

- leaves have to be sanctioned by the Director/Principal. Leave application is to be submitted on the day they come back to the college. No late leave will be considered.
- Students, who happen to have no class, are not allowed to loiter around in the campus during class hours disturbing other classes. Abstaining from class “en-masse” is considered as a serious offence for which disciplinary actions will be taken.
  - Silence should be maintained in library and computer labs. Library books should be handled with care. Rules pertaining to the issue of library books should be adhered to.
  - As per the High Court Order, mobile phones are banned inside the college campus. Strict disciplinary action, including confiscation of the mobile phone and a fine of Rs.1000/- , will be imposed on students who violate the above rule.
  - Ragging in any form is strictly prohibited in the college according to the directions of the AICTE and Government of India. Penal measures to those found guilty of ragging will extend up to immediate expulsion from the college.
  - Students are expected to maintain a very high order of discipline. No effort shall be spared to conduct themselves at all times, at all places, and on all occasions in a manner worthy of students of a course which is to lead them to shoulder high responsibility in the future.
  - Students are expected to adhere to the dress code prescribed by the institution while in campus. Boys should wear trousers with formal belts (only black / brown colors permitted) and insert shirts with half sleeves and their feet should be protected with socks and shoes. **Jeans and T-shirts are not permitted.** Girls should wear salwarkameez and duppatta. Girls should take care to tuck in their hair. The **ID card should be displayed whenever they are inside the campus.** Strict disciplinary action will be taken on the spot against those who violate the dress code.
  - Any change from the dress code is permitted with the consent of the Principal / Director on special occasions.
  - Every student shall provide himself/herself with the entire prescribed textbooks, drawing instruments and accessories and other such articles required for the classroom work.
  - The college properties should be handled with maximum care and everything possible should be done to preserve the cleanliness, and tidiness of the building, furniture,

library, buses and premises. Fine will be imposed for damages to equipment, furniture, building etc.

- The students are to attend all the activities organized by the college.
- A number of additional programs in the form of Add-on classes, remedial classes, extra classes, study tour, industrial visit, finishing school, soft skill training etc are arranged for the development of the students. It is mandatory to all the selected students to attend all these programs.
- From the academic year 2018-2019 the institution will be following 5 days week (Monday to Friday) time table.

**Director's/Principal's decision regarding discipline will be final.**

## **9. STAFF ADVISORY AND MENTORING SYSTEM**

The college follows a Staff Advisory System where one faculty member will be in charge of 30 students of each class. The faculty member acts as a friend, philosopher and guide. The faculty member will be responsible for the conduct of the students in both academic and extracurricular field.

She/he will keep all the records pertaining to the student, recommend leave letter, duty leave etc, keep contact with the parents, send letters to the parent or guardian on academic or other activities. The parents can contact the staff advisor. The contact number is given in the college calendar. There will be a senior staff advisor in each department.

In addition every faculty is given mentorship training by experts. They are trained on various mentoring methodologies and ways and means of getting the students to expose their faith in the mentor and open up and discuss their problems and practice the solutions offered by the mentor. After proper training each faculty is entrusted with 10 students to mentor. They are asked to carry out the mentorship in a confidential manner and submit their report at the end of each semester on the effectiveness of mentoring on the mentees.

## 10. FACILITIES

### 10.1 Prof. V. Jagannatha Panicker Memorial Library & Information Centre

Our Central Library is named after Prof. V .Jagannatha Panicker who was a great scholar, renowned teacher and a journalist par excellence. His unique collection of invaluable books on all branches of knowledge was donated by his family to the Central library and maintained here as **Prof. Jagannatha Panicker Knowledge Centre**. The Central Library and Information Centre offer a wide range of resources and services. It attempts to provide accurate and up-to-date information to support the curricula needs of the undergraduate and postgraduate programmes.

The library facility consists of Information Desk, Circulation section, Reference section, Periodical Section, Stack area, Bound Volumes section, Digital Library and Multimedia Centre, Humanities and Social Science section and Reprographic Centre. The library is fully automated and the collection is accessible online through the Online Public Access Catalogue (OPAC). The library follows the open stack access policy for its members.

We have a large book collection and continue to grow both in quantity and quality. We have recently added many new books based on the syllabus of APJ **Abdul Kalam Technological University, Kerala**. Besides books, the collection includes magazines, technical journals, newspapers, CD/DVD's. The core collection covers subjects such as computer science, information technology, engineering, pure sciences, life sciences and business management. The humanities and social science section of our library is very unique and invaluable.

Number of Books	:	35609
Titles	:	8808
Journals/Magazines	:	110
National	:	103
International	:	7
e-Journals	:	1500
CD/DVD	:	1852

#### 10.1.1 ONLINE PUBLIC ACCESS CATALOGUE (OPAC)

The OPAC containing the library collection is accessible from the terminal in the ground floor. The users can obtain details pertaining to the book collection, journals, reports, thesis and CD-ROM from the OPAC.

Members can check the availability of book in the OPAC and proceed to the stacks to locate the book based on its class number.

### **10.1.2 Library Services**

In addition to the lending and reference services, we provide the following services also to our members

- **Reprographic Services**

Reprographic services include Photocopying, Document scanning and printing. We charge Re.1/Copy for photocopying and printing and Rs.5/page for the scanning service.

- **CD/DVD viewing service**

We have a collection of over 1852 CD/DVD's in our library and members can view these in our Digital Library and Multimedia Centre.

- **e-Learning Centre**

We have membership with Delnet and National Digital Library (NDL).Our students can access over 1500 e-journals & e-books from the e-Learning centre of the Library.

- **Education/Career Information**

We regularly put up information about Higher Education/ Scholarships and Career opportunities on two notice boards in the library. We are also maintaining a special collection on books for Career and Professional Development (CPD).

### **10.1.3 General Library Rules**

1. All members are required to bring the bar-coded ID card while coming to the library and it must be produced to the library staff, if asked for identification. Students who come for reading during class hours must show their ID at the Information/ circulation counter and seek the permission of the library staff.
2. Members are not allowed to bring personal books/printed material inside the library. They can keep their personal belongings on the shelves available in the library lobby.
3. Library books must be returned on or before the due date stamped on the date label. If the book is not returned on the due date, Rs.10/- per day is charged as fine. A student who repeatedly fails to return the overdue books twice in the same semester loses his

membership for the semester. The student will be reinstated in the next semester only on paying a fine.

4. If a book issued to a student is lost, it must be reported immediately to the library staff. The concerned student has to pay double the latest price of the book.
5. If the barcode pasted on the ID card is damaged, A fine will be charged for replacing the barcode.
6. Mutilation and disfiguring of pages of the book by ink markings are strictly prohibited. Any member who damages the book will be asked to pay double the latest price of the book.
7. Students shall maintain perfect silence inside the library.
8. Members are not allowed to bring mobile phones inside the library.
9. Food and water bottles are not allowed inside the library
10. Students/faculty must contact the information/circulation desk in person for enrolling as members and getting the member barcode pasted on the ID card. Books will be issued only after registration and issuing of member barcodes.
11. Appropriate action will be taken by competent authority against the users who are damaging the library resources and misusing the library services and facilities

**LIBRARY TIMINGS:**

**Working time:** 8.30 AM to 4.30 PM

**Circulation Desk:** 8.30 AM to 4.20 PM

**Reference section:** 8.30 AM to 5.30 PM and 8.00 PM to 10.00 PM (Hostellers only)

All members can borrow/return books from **8.30 AM to 4.10 PM** on all college working days.

## **10.2 Language Lab**

A Language Lab with 30 computers has been installed to improve the communication skills of the students. During their period of study in the college, compulsory classes for communication would be conducted. This lab is being installed to improve the style and skill of both written and oral communication of the students, which is essential for the placements.



### **10.3 Seminar Halls**

The college has a number of well-equipped seminar halls. Many of them are air conditioned. There is a fully equipped air conditioned Seminar Hall of CGPC in the Main Block and it can accommodate 100 people. A mini auditorium to accommodate 350 students are available in Civil block. Each department have separate seminar halls for UG and PG.

### **10.4 Central Computer and Internet Facility**

Central Computer and Internet Facility cater to the computing requirements of the institution. There are more than 600 Personal Computers in the Institution. The Central Computer Centre is equipped with 13 high end servers with UPS for various applications. Intranet provides access to the students from various department libraries, seminar halls and main library. They can view the NPTEL or other video lectures given by eminent professors from IIT and other reputed institutions on various subjects. The central computing facility is located in the Administrative block. The working hour of the Central Computing Lab is from 8:30 AM to 10 PM and it is open on all days. The Centre is connected to Internet through a 48 Mbps leased line internet connection of BSNL and Asianet, which is distributed to different terminals in the campus. Optic Fiber Connectivity is used for campus networking. Database automation software is used to integrate and automate the administrative and academic activities of the college. Mohandas college of Engineering & Technology has become a part of the Microsoft Developers Network Academic Alliance. The MSDN Academic Alliance (MSDNAA) is a special program to provide academic institutions, faculty, and students in the curriculum areas of Computer Science, Engineering, and Information Systems to make it easier and less expensive to acquire Microsoft developer tools, platforms, and servers for instructional and research purposes.

### **10.5 Smart Classrooms**

As a first step in making the classrooms as smart classrooms each department is provided with a portable LCD projector along with a laptop which can be used in the class rooms. Seminar Halls are equipped with smart board, internet connectivity and LCD projectors for conduct of e-teaching. PG class rooms are wi-fi enabled and provided with adequate computers and networking

## **10.6 Hostels**

The College campus is designed as a residential educational township. At present the college has hostel facilities for 250 girls and 250 boys which are being enhanced to 400 each. The hostel has warden and resident tutors (RT) for educational guidance. The rooms are large and airy with all the facilities. Mess facilities are available and students can get wholesome, nutritious food of their choice. A homely ambience with rich academic environment is provided. Hostel is a place where students can learn socially acceptable habits and harmonious living. The inmates of the hostel should treat the hostel staff with courtesy and kindness. Inmates have to treat other inmates as their brothers / sisters. Any tendency to hurt others, especially the fresher's, by word or by deed, will invite stern disciplinary action, which may include expulsion from the hostel and from the college. Students should note that 'Ragging' is a criminal offence under law. Inmates should keep the rooms and premises neat and tidy, should cooperate to keep the common areas clean. They should not throw waste outside but leave it in the waste bins provided outside. They are responsible for the furniture in their rooms and other hostel properties.

For the proper running of the hostel a council is formed with the warden as the Chairman and Assistant warden as the convener and Resident tutor and the elected student representatives as the members. This committee will look in to the proper running of the hostel.

### **10.6.1 Hostel Rules**

1. The inmates are supposed to be in the hostel other than the regular working hours and the allotted time for going out.
2. During the class hours students will be allowed to stay back in the hostel only with the prior permission of the resident tutor/ matron.
3. Guests are allowed to visit inmates during the visiting time only as given below  
Working days :5.00 PM -6.30 PM  
Holidays: 10.00 AM – 6.30 PM
4. No visitors will be permitted to enter hostel rooms. They are permitted to enter the visitor's room only.
5. Parents are permitted to come to the hostel and visit their wards other than the visiting time with the special permission from warden / resident tutors.

6. Day scholars are not permitted to enter the hostel.
7. Inmates should get prior permission of the resident tutor to go outside the campus, and should enter the details in the movement register.
8. On holidays inmates are allowed to stay out of the hostel. They can leave for their residence / specified local guardian's home only and should write the details in the stay out register.
9. On working days special permission from the warden is required for stay out.
10. All inmates should be there in the hostel before roll call & the time is as given below:
  - Winter season (October – February): 6 PM for girls and 6:30PM for boys
  - Summer season (March – September): 6:30 PM for girls and 7PM for boys
11. Inmates have to be back in their respective rooms before 8.00 PM and are not permitted to go to another room, and there should be compulsory study time between 8.00 PM – 10 PM
12. The inmates can use the library and Internet lab facility within the campus from 8.00PM - 10.00PM under the supervision of a staff in charge, they should write their names in the movement register. Complete silence should be observed after 10 PM.
13. The inmates are allowed to use laptop.
14. The inmates are expected to follow good discipline in the hostel especially in the mess hall.
15. Inmates should keep the rooms neat and tidy, should cooperate to keep the common areas clean.
16. The inmates should treat the hostel staff and other inmates with due respect and kindness. Any tendency to hurt others will invite strict disciplinary action.
17. The inmates can make phone calls between 6 AM-8 AM and 4PM–8PM the duration of the phone call is restricted to 3 minutes. Those who are making phone calls should enter the details in the phone register.
18. No incoming phone calls will be allowed after 11.00PM.
19. Ragging is a criminal offence under law and is strictly prohibited.
20. TV Timings
  - Working days: 4.30 PM to 8.00 PM
  - Holidays : 7.00 AM to 11.00 PMThe inmates are not allowed to watch T.V during study leave and exam days.

### **MESS TIMINGS**

1. The inmates are allowed to enter the mess hall during the mess time only.  
7.00 AM – 8.15 AM (Breakfast)  
11.15 AM– 1.00 PM (Lunch)  
4.45 PM – 5.15 PM (Tea)  
7.00 PM – 8.00 PM (Dinner)
2. No food will be served after the specified timings.
3. The inmates are not permitted to take food to their rooms, without the prior permission of the resident tutor. They are not permitted to bring food from outside to hostel.
4. Mess cut will be allowed only during examinations and study leaves.
5. Non Veg coupons are given for the whole semester; they cannot change to veg and vice versa.
6. For guests, vegetarian food is served generally; otherwise they have to pay an additional amount of Rs.25/- to the guest charge.
7. Entry to the kitchen is restricted to the authorized persons only.

### **10.6.2 Use of Mobile Phones**

#### **Procedure to be followed for the safe keep of mobile phones in the hostel**

- 1) Mobile phone usage is allowed inside the hostel from 6 AM - 8 PM and 4 PM – 8 PM.
- 2) The parent should give affidavit stating the specification of mobile phone sent through their wards at the time of hostel admission. Any further change should be intimated to the Resident Tutor/Asst. Warden.
- 3) Mobile phones with internet, whatsapp, facebook, youtube etc. **are permitted, with the permission of higher authority.**
- 4) Use of mobile phones is restricted inside the rooms.
- 5) The inmates are not allowed to use mobile phones while they are in the academic campus.

Violation of any of the above procedure will be taken very seriously and the mobile phone will be confiscated.

## Contact Numbers

SI No	Name	Contact Numbers
<b>LADIES HOSTEL</b>		
1	Dr. Ashalatha Thampuran, Director/ Warden	9447048869
2	Dr. Sheela, Principal	9447000508
3	Ms. VijayaKumari, Assistant Warden	9495332437
4	Ms. Jayapradha T U, Assistant Warden	9746113911
5	Ms. Anina , RT , 1 <sup>st</sup> Floor	8848257901
6	Ms. Praseetha P Unnithan, RT, Ground Floor	8547543303
<b>MENS HOSTEL</b>		
1	Dr. Ashalatha Thampuran, Director/ Warden	9447048869
2	Dr. Sheela, Principal	9447000508
3	Mr. Adrian Miranda, Assistant Warden	9846165111
4	Mr. BabuRajendra Prasad, Assistant Warden	9495736330
5	Mr. Jinson Eugene, RT II <sup>nd</sup> Floor	9846023430
6	Mr. Karthik M, RT 1 <sup>st</sup> Floor	9496327831

## 10.7 College Buses

There are fifteen college buses which ply through the city and suburbs to the campus. They go through various routes covering Kilimanoor towards North, Vizhinjam towards South, Valiathura towards West and Neyyattinkara towards East. There will be an additional bus which will leave the campus at 7.00 PM for those who are staying back for attending sports, library/computer centre / extra class. The bus routes are published in the college website. College progressively adds to its fleet new vehicles as need demands.

## 10.8 Documentation Centre

The documentation centre is a central facility situated the Computer Science block.

The facilities provided are

- i) RISO Graph
- ii) Colour Laser Printer
- iii) Laser Printer
- iv) Line Matrix printer
- v) ID card Printer
- vi) Canon – High volume photo copying and printing machine
- vii) Spiral binding equipment

The students can take printouts for academic purpose from here.

## **10.9 Bank**

Canara bank Anad Branch is functioning inside the campus. The bank operates from 10 AM to 3:30PM during normal working days and first and third Saturdays. However students will be permitted to use the bank between 11:15 AM and 1:15 PM only. Arrangements have been made with the bank to receive Tuition fees, University fees etc, in addition to other banking transactions.

## **10.10 Auditoriums**

A multipurpose auditorium –‘Mohandas Hall’ with a capacity of 1500 seating capacity is available in the campus. A mini auditorium with a seating capacity of over 350 is available in the Civil Engineering block.

## **10.11 Sports and Games facility**

Sports facilities are provided to the students under the Professor of Physical education. We have facilities for indoor and outdoor activities. Outdoor facilities are provided for volleyball, basketball, football, cricket, shuttle badminton and athletics. Indoor facilities are provided with basketball court, shuttle court, table tennis, chess, carroms and fully equipped gymnasium for boys and girls in the Mohandas Hall.

Basketball and Volleyball training is given to students. The college has Basketball and volleyball coach. For cricket practice a practicing net is also arranged.

Well-equipped gymnasium and fitness center is established in our institution and separate trainers for girls and boys are provided for giving training.

## **10.12 Canteen**

The college canteen which is functioning in the college campus provides all the delicious food / snacks at a highly subsidized rate. It can accommodate 200 students at a time. Evening fast food counter is provided for the benefit of hostlers.

## **10.13 Other Facilities**

**The following additional facilities are available for the students**

- 1.24 hours ambulance service
- 2.Infirmary functioning in the BT department
- 3.Sick rooms available in the EEE department
- 4.24 hr internet facility both for day scholars and hostlers
- 5.Doctor's services are available in the campus once a week.

## **11. PARENT-TEACHERS ASSOCIATION (PTA)**

The Parent - Teachers Association is formed with a view to maintain effective interaction between the college and parents. The PTA of the college is very active and is giving considerable assistance for the improvement of the college. The PTA promotes and supports extracurricular/ co-curricular activities like college day, sports day, department association activities, National Level Technical Symposium(Colloquium) & Cultural Fests(Illuminati) etc. The journals in the central library, LCD projectors for various departments, the BSNL broadband high-speed internet connection in the college etc. are being maintained by the PTA. To help the students to resolve personal issues and improve their academic performance a full time clinical psychologist is appointed for counseling. A general body meeting is held every year and executive committee meetings every alternate month. The Academic progresses of their wards are informed to the parents on regular basis. As a part of the activities of PTA, scholarships are being issued to various categories of students. Merit cum means scholarships are issued to financially backward meritorious students as per the recommendations of the staff advisors. Merit scholarships are issued to outstanding students in each semester from the year 2005 onwards.

The PTA of MCET is headed by the Director, as the president and Principal as Vice President. The executive committee comprises of a Secretary, Treasurer, eight faculty members and seven parent members.

## **12. ALUMNI ASSOCIATION (AAMCET)**

ALUMNI ASSOCIATION OF M-CET (AAMCET) has been formed in the year 2006. The main objective of this association is to maintain contacts of Alumni with the Alma mater and to foster the relationship between the past and the present students of this college. The Director / Principal is the Chairman of the AAMCET. The activities of AAMCET are being managed by an executive committee which consists of Faculty members and student members. On completion of course, it is mandatory that all the final year students are enrolled as members of AAMCET. Every Year AAMCET is organizing an event 'PRAYAN' for the final year students during the month of June – July for enrolling all outgoing students as a life member in AAMCET. Annual general body meeting is scheduled in the college premises in December on Saturday or Sunday which is closer to the Christmas. It also provides awards for final year students who excel themselves in Academics. First three University rank holders are provided with gold medals. Merit cum Means scholarships are also given out to deserving students. Memorial awards/ Endowment awards constituted by well-wishers as below are also conferred on the Alumni day:

- Smt. Sarasija Thampuran Memorial Endowment Award for the best outgoing student instituted by Dr. Ashalatha Thampuran.
- Dr. Sutapa Sen Memorial Endowment Award for the best outgoing B TECH student from Electrical & Electronics branch instituted by Dr S Dasgupta, former Head of Electrical Department.
- Sri Balam Gopalan Memorial Award for the student with highest marks in Engineering Maths instituted by Smt. Sreedevi former faculty in Mathematics.
- Mr. Dileep Endowment Award for the student with good technical skill in Electrical & Electronics branch instituted by Mr. Dileep an alumni of the college.
- Mr. Muraleedharan Nair Endowment Award for the student with highest GPA upto Sixth Semester instituted by Mr. Muraleedharan Nair former Professor in Mathematics.
- Shri. Sundaran Memorial Endowment Award for the student with good performance in S1 S2 workshop instituted by 2010-2015 batch students.



- Smt. Sudha Dasgupta Memorial Endowment Award for the Best outgoing M Tech student of Electrical & Electronics branch instituted by Dr. S Dasgupta former Head of Electrical Department.
- Smt. Kaushalyavati Memorial Endowment Award for the best outgoing female student instituted by Mr. Premjit Singh.
- Dr. Sriramachari Memorial Endowment Award for the best outgoing student in Biotechnology and Biochemical Engineering branch instituted by Prof S Alwan ,HOD Dept of BT and BCE.
- Sri. T K Divakaran Memorial Endowment Award for the best outgoing student in Civil Engineering branch instituted by Dr. S Sheela, Principal.

Academic proficiency awards for the students with highest overall GPA are given to the students from each branch on the occasion.

## **13. PROFESSIONAL BODIES**

### **13.1 Indian Society for Technical Education (ISTE)**

ISTE is a national, professional, non-profit making society registered under the Societies Registration Act of 1860. The major objective of the ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organizations. We have about 100 staff members in ISTE Staff Chapter and 1500 members in Students' Chapter. The ISTE staff chapter conducts staff training programs once in every 6 months. Thursday Colloquium – Extramural lectures are arranged on every Thursday on various current topics by eminent personalities for the faculty and final year students.

ISTE MCET Chapter awarded the BEST CHAPTER KERALA SECTION in 2014 at the 44<sup>th</sup> Annual State Convention in CET, Trivandrum.

### **13.2 Institution of Engineers (India)**

MCET is a Life member of Institute of Engineers (India). Institution of Engineers (I) was established in the year 1920. The institution obtained royal charter from British Emperor in 1935 'to promote and advance the Science practice and business of Engineering in all its branches in India'. IE(I) is the first professional body to represent India in several International organizations such as the World Federation of Engineering Organization, the Common Wealth Engineers Council, The World

Mining Congress, The Federation of Engineering Institution of South & Central Asia. Institution has established Students Chapter of IE (I), India in Civil Engineering Department and Mechanical Engineering Department.

### **13.3 Institute of Electrical and Electronics Engineers (IEEE)**

Formation in 2006

Branch code STB64741, School code -41653765

IEEE, a non-profit organization, is the world's leading professional association for the advancement of technology. Through its 375,000 members, including 80,000 students, in more than 160 countries, IEEE membership brings you access to the latest technical information and research. For its outstanding performance for the year, IEEEESB MCET received the first ever Outstanding Student Branch Award 2015, instituted by the IEEE India Council. Two MCET students were selected from among the 200 students from all over India to attend the AISYC 2015. Our volunteer team actively participate in various Section, Link and Hub level events including the Face 2 Face, WIE F2F, WIE Congress, Link camp, GHTC SAS, RAICS etc.

#### **13.3.1 IEEE - PES Student Branch Chapter**

The Power & Energy Society (PES) provides the world's largest forum for sharing the latest in technological developments in the electric power industry, for developing standards that guide the development and construction of equipment and systems, and for educating members of the industry and the general public. Members of the Power & Energy Society are leaders in this field, and they and their employers derive substantial benefits from involvement with this unique and outstanding association.

### **13.4 Computer Society of India (CSI)**

CSI student's chapter of the college had its beginning in the year 2004-05. It aims to enhance the technical activities of budding engineers and provides guidance for better beginning. It has conducted various activities like paper presentation, seminars and technical aptitude test within the college. CSI is planning to expand its activities in future by conducting intercollegiate technical

fest, debugging contests and project presentations.

### **13.5 Society for Biotechnologists India (SBTI)**

The Society for Biotechnologists (India) is an association of eminent biotechnologists, students, academicians, doctors, industrialists and professionals working in relation with Biotechnology.

### **13.6 Indian Institute of Chemical Engineers (IChE)**

The Trivandrum Regional Centre of Indian Institute of Chemical Engineers (IChE) is the premier body of professional Chemical Engineers in this region. The Regional Centre regularly organizes technical lectures, symposia and seminars for the benefit of its members. The Centre also promotes the activities of the student chapter of Mohandas College of Engineering and Technology (MCET), Anad, Trivandrum.

## **14. RESEARCH ACTIVITIES**

The research and development initiatives of the Institution sponsor the student community with generous fiscal support promoting budding engineers to develop socially relevant and technically innovative products. Twelve undergraduate projects belonging to various disciplines are sponsored under this research grant program every year. Financial support (Rs. 10000/-) is given for the selected projects of students under various departments.

Sponsored projects were successfully completed and conducted a project exhibition 'Samagra' under the co-ordination of Research Cell.

The college has signed MoU with various organizations like HLL, Kerala Automobiles, C-DAC to include industrial research and consultancy.

## **15. CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES.**

### **15.1 Career Guidance and Placement Cell (CGPC)**

Career Guidance & Placement Cell (CGPC) is established with a view of orienting and training the students for placement, higher studies, or becoming young entrepreneurs. CGPC also facilitates the recruitment process and aims to provide 100% employment to the eligible students.

## **Activities of CGPC:**

To achieve the objectives, the following activities are taken up by CGPC:

- Establishing and maintaining good relation with the industry.
- Providing information and skills required for effective placement.
- Inviting experts from industry to the campus for sharing experience and expertise.
- Providing guidance for students regarding opportunities for higher studies.
- Identifying students with entrepreneurial qualities and guiding them for startups.

## **Major programs conducted by CGPC:**

- Practice in language lab to enhance language skills
- Soft skills training program covering topics like communication skills, written communication, group discussion, goal setting etc for 5<sup>th</sup> semester students.
- Finishing School for final year students which includes training to face the recruitment process. This covers areas like communication skills, aptitude tests, group discussions, resume preparation, guidance in facing interviews, model interview etc.
- Facilitating placement for the students of final year.
- Providing guidance on higher education in India and abroad.

## **Facilities:**

The following facilities are provided to the corporate visiting our campus:

- Language lab
- Air-conditioned Seminar Hall and Mini Auditorium with all presentation equipment
- Conference rooms
- Labs for conducting online test
- Rooms for conducting GD, interviews etc

## **Placement Status:**

MCET has built and nurtured very cordial relationship with many major companies. As a result, our students have been receiving excellent opportunities. Those students who get placement through the CGPC help the unit to achieve its objectives, by their effort and contributions over the last many years. As result of continuous effort, our college has scaled new height in placing the students.

MCET is among the very few colleges in Kerala which is accredited by Tata Consultancy Services (TCS). TCS regularly conducts campus placement drive in MCET. Other major recruiters over the years are Infosys, IBS, Wipro, Speridian, Allianz Cornhill, HCL, Sutherland, South Indian Bank, Federal Bank, UST Global, SunTec, Assuretech etc.

The placement status for each year is given below:

<b>Pass Out Batch</b>	<b>No. of Placements</b>
2006	134
2007	132
2008	96
2009	127
2010	91
2011	172
2012	95
2013	40
2014	123
2015	91
2016	145
2017	111
2018	145
2019	104
2020 (till Feb)	43 *

\*continuing

The companies who have recruited from 2019 pass out batch are:

<b>Sl.No.</b>	<b>Company</b>	<b>Count</b>
1	TCS	13
2	Quest Global	4
3	IBS	2
4	IBM	1
5	Zifo	1

6	Shristi	1
7	Jaro Education	1
8	Wipro	1
9	Tata Elxsi	1
10	UST Global	10
11	Federal Bank	1
12	Hexaware	1
13	FACE	3
14	Triassic Solutions	1
15	Speridian Technologies	2
	<b>Total</b>	<b>43</b>

## 15.2 Study Tour

As a part of overall development, study Tours are organized by the institute. The tour is envisaged to improve the Industry - Institute interaction. They will get an opportunity to get acquainted with environmental conditions outside their home/classrooms exposing them to different culture, living practices, and languages of different regions of our country which will broaden their outlook. The students will get an opportunity to visit some Major Industries, Universities and Research organizations in their field of studies.

Tours are organized without affecting the class works, in the following pattern.

Third year - Nine days - All India

Apart from these short Industrial trips will be arranged by departments as deemed beneficial.

All students are expected to participate for these tours. Students who cannot participate due to medical reason /other contingency will have to take advance exemption from the college. The students will be accompanied by a minimum of two faculty members.

## 15.3 Centre for Continuing Education (CCE)

Along with the prescribed syllabus, we, at M-CET endeavor to update our students with the latest development in technology. To impart excellent and comprehensive education to our students, we have a Continuing Education Cell functioning under the supervision of Prof. Cletus K.S. This Cell provides training on several value added courses like LINUX, C++, JAVA, Embedded system, PLC

Automation, CNC Machines, NDT, Chemcad & MATLAB, Hardware, Communicative English Programme etc to enrich the knowledge of the students. When a student completes his regular curriculum, he will possess minimum one additional certificate which improves his employability. In addition, Bridge Courses are also envisaged to impart basic technical skills in specified topics before they go for the regular courses.

**ASAP (Additional Skill Acquisition Programme)** of Government of Kerala and **PMKVY (Pradhan Mantri Kaushal Vikas Yojana)** of Government of India training programs are conducting through CCE.

#### ASAP Courses

- SDPK Enable programme
- Architecting with Google Cloud Platform
- Robotic process Automation
- Life Skill Module
- SDPK Course-Foundation of Robotics
- Architecting with Google Cloud Platform
- Salesforce Administrator/ Business Analyst

#### PMKVY Courses

- Field technician – Computer Peripherals
- CNC operator trainee
- TV operator technician

## **15.4 CISCO Networking Academy**

We have also established CISCO Networking Academy in the college. The Academy is setup as an authorized training centre offering specialized industry-oriented skill-based education in CISCO Networking Technology. The Students are being given training on CISCO networking as a regular programme. Selected faculty members are trained and certified at the CISCO's regional academies in Hyderabad, Chennai, Bangalore and Coimbatore. These CISCO Certified Instructors are authorized and equipped to give the CISCO's stipulated training at the MCET's CISCO Networking Academy.

### **15.4.1 Skill Development Centre**

Skill Development Centre of this institution is offering short term training course in Computer hardware and Networking. Duration of the course is scheduled for 70 hours (12 days). The Computer Hardware and networking course is offered by MCET under the skill development program will be beneficial for persons taking up jobs as Computer Professionals. Also a course on Microsoft Certified Professional (MCP) is conducted under the skill development centre. The duration of the course is 40 hours. The courses will develop and improve skills of students as required by the computer industry. They can get placed in Information Technology departments, desk support for computer hardware and networking, or can be self-employed professionals.

### **15.5 Industry Institute Partnership Cell (IIPC)**

An Industry Institute Partnership cell was formally inaugurated at MCET on 17 June 2013. The cell intends to develop interfaces with the Industry.

- The college is accredited by Tata Consultancy Services (TCS) and is supporting us in many Faculty development programme, students' projects, and campus recruitment.

The Institute has signed MOUs with

- M/s HLL Life care Ltd, Dynamic Controls limited. Many students and teachers had undergone training and Internship at HLL Life care Ltd.
- Centre for Development of Advanced Computing(C-DAC)- Supports in FDP and students training and projects.
- Kerala Automobiles Limited (KAL) granted approval to MCET as a National Skill Development Training(NSDT) Off Campus for conducting the various Industry Institute Interactive Training Programmes. The cell will reach out to more Industries in the future.

### **15.6 Entrepreneurship Development Cell (EDC)**

The Entrepreneurship development cell of MCET is functioning under the ED cell of Kerala University with an objective to give an incentive to the students to start their own entrepreneurial ventures. It conducts regular workshops for pre final year students on various aspects regarding startups. Under EDC-MCET, an ED Club is functioning in which interested students become members. The EDC MCET is funded with AICTE for both infrastructure and activities.



In the academic year 2019-2020 IEDC conducted more than 80 programs in the field of innovation and entrepreneurship ranging from motivational talks, expert talks, boot camps, Hackathon, ideation camp, design thinking workshops and much more.

**During the lockdown**, IEDC MCET initiated to break the chain of silence and to ignite the students to do something different within their house. Everyday challenge awaits the students. This challenges focused on improving their positiveness amongst these circumstances, sharing their experiences, creative designing, building out of the box thinking, how to create something new from the leftover, etc.

**Five Series of Webinars** was conducted from April 13th to September 5th comprising over 45+ sessions ranging from various soft and technical sides to mold the participants with knowledge even in the lockdown period. Each series had a different essence and way of presentation and approach say professional, experimental, social, entrepreneurial, employment, etc. Experience sharing from various successful personalities inspired the audience to get out of the shell of comfort and do something different and innovative. IEDC-MCET continues its engagement with the students through different varieties of activities.

A **3-Day Student Development Program** from 15th to 17th July focused on the untapped arena of Ideation, Innovation & Incubation often underestimated. Total of 6 sessions on different sub-topics ranging from Idea to Ideation, Stages of Product Development, and Fuelling Innovation for the Future, Ideation using Business Canvas Model, Pre-Incubation & Incubation and Myths of Entrepreneurship made the participants to have an enlarged perspective of the existent startup culture. Idea Cafe, one of IEDC-MCET's initiative to interact without restrictions and analyzing the environment from different perspectives made it's comeback in the lockdown through the virtual platform as '**E-Idea Cafe**' from May 5th and continues its journey by giving the students free spirited talks and sessions.

A total of **15 projects** were also started during this period to improve the current social and technical issues faced by the common people and thereby enhance the lives of people through innovational and technological brainstorming and creativity.

### **15.6.1 Technology Business Incubation Centre (TBIC)**

Technology Business Incubation Centre (TBIC) works under EDC-MCET which provides incubation support to potential entrepreneurs from among their students. TBIC-MCET provides ready to move

in plug and play facilities in addition to the expert advisory and mentoring provided inside the campus. So far eight companies have started their service from here. Five companies DOODLE security, Synoid bioscience , Ser-Q Technologies Hello infinity and K & T Design Engineering solutions have moved out of the institution and are doing well in their respective fields .At present 3 companies namely ,ZagproCercaTrova Technologies and consultancies and Envirous Biotech solutions are working from TBIC –MCET currently. TBIC providing 8 workstations with all technical supports including 24 hours internet facility.

### **15.6.2 MCET Boot Camp**

MCET boot camp is the new venture of ED cell in association with Kerala Startup Mission (T-TBI) & Government of Kerala. MCET serving as one of the Nodal boot camp of T-TBI and funded by Kerala Startup Mission.

## **15.7 National Service Scheme (NSS)**

The National Service Scheme unit was formed with a noble aim of developing social and civic responsibilities among the students and for serving the different sections of the under privileged and the needy. Our college NSS unit received the Directorate Level Award for best NSS Unit in Kerala State in the year 2015. Also on the same year our Programme officer received the Directorate level award for Best Programme Officer.

The various activities of the NSS units are

- Free medical camp for the people of Anad panchayat
- Blood donation camp, Health awareness
- Cleaning programme in KSRTC depot, Hospitals etc
- Planting medicinal trees in the premises of Govt. Ayurvedic Hospital
- Distribution of study materials and other accessories for nearby Govt. L P Schools
- Conducted anti-drug and anti-ragging awareness program
- As part of Home for Homeless Project, we constructed a house for a destitute old woman in the community and created a durable asset of Rs. 3,20,000/-
- Other Flagship programmes organised by our unit includes Swachh Bharat Abhiyan, E-literacy program, Punarjjani, Jalasanjeevani, NEYES etc

- Various orientation programmes held for building leadership qualities among students.
- Students will be given state level training to manage disaster related activities and project competition held to apply engineering skills towards social benefits.
- 7 day residential annual special camps.

Our unit 159 under KTUNSSCELL is an active unit with 7 teams namely general administration, blood cell, natural protection ,energy conservation, palliative care, Day observation and publicity team.

## **15.8 Marghadarshi**

Marghadarshi is an educational campaign started by Mohandas college of Engineering and Technology to provide career guidance and proper awareness to school students regarding professional career. As a part of this initiative Marghdarshi volunteer visit schools and give inspirational talks with experience sharing on campus life and engineering studies, take classes on Mathematics, Physics and Chemistry and also conduct activities to develop the student's personality, objective thinking, sharpness and speaking skills. Marghadarshi also provides free entrance training, as well as conducts Mock examinations to familiarize the entrance process and the question patterns. Marghadarshi also provides technical and theoretical supports via its well experienced volunteers to students in their projects and also encourages students to visit the engineering campus to understand the atmosphere of a professional educational institute. The campaign aims to prepare the young minds for the future education in the technical fields.

## **15.9 Counseling Centre& Medical aid**

The College has a Counseling Centre to help the students out of their problems. Since the students are from different culture, religion, languages and financial backgrounds, some students may need counseling to develop themselves. When the students have problems that are unsolved, it reflects in their attendance, academic performance and ultimately with their personality development. The objective of the Centre is to provide counseling in an accessible and student focused environment, keeping in mind the unique needs of the student community. Counseling is offered in an unconditional, non-judgmental and confidential manner to the students walking in seeking help with

personal and academic difficulties.

The Centre therefore provides a nurturing environment where each student is empowered to face life challenges and move ahead to achieve their academic goals. The counseling is done by an qualified counselor; the students may contact the counseling centre directly or through their Staff advisors. Parents can also contact the counselor with regard to any concern they may have about their ward.

Infirmary has been set up in the Institution for helping the students with first aid. The service of a doctor is available once weekly.

## **15.10 Ekalavya Project / NPTEL online courses**

Mohandas College of Engineering and Technology is a recognized centre for remote learning under the Ekalavya program. The Internet Lab is facilitated with provision for conducting video lectures and can accommodate 40 members. Under this program several workshops are organized in campus sponsored by the National Mission on Education through ICT, MHRD, Govt. of India and conducted by IIT Bombay and IIT Kharagpur with a tie up with ISTE for the faculty members of CS/IT, MCA, EC, EEE, ME, BT& BCE, Civil, Maths etc. A few are

- Two week STTP on “Pedagogy for Effective Use of ICT in Engineering Education” Conducted by IIT Bombay
- Two Week ISTE STTP on “Introduction to Structural Engg” Conducted by IIT Kharagpur
- Two Week ISTE Workshop on Introduction to Design of Algorithm Conducted by IIT Bombay through AVIEW
- Digital India, a flagship program of the Govt. of India to “transform India into a digitally empowered society and knowledge economy”. Conducted by IIT Kharagpur

Conducted NPTEL online courses

ME – Inspection and quality control

CE – Digital land surveying, Plastic waste management, Subsurface exploration importance and techniques involved

BT – Cell culture technologies, Medical biometrics, Forest biometry, Bioengineering an interface with biology and medicine students, Application of interactomics

CSE - Data mining

EEE – Electric vehicles part 1

## **15.11 Pradhan Mantri Kaushal Vikas Yojana (PMKVY)**

Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is a skill development initiative scheme of the Government of India for recognition and standardization of skills. The aim of the PMKVY scheme is to encourage aptitude towards employable skills and to increase working efficiency of probable and existing daily wage earners by providing quality training to them.

Three courses are approved to be conducted at Mohandas College of Engineering and Technology and they are

- i) Field technician – Computer peripherals
- ii) CNC operator trainee
- iii) TV operator technician

Among these two courses (Field technician – Computer peripherals, CNC operator trainee) had completed the registration and had started classes on 17/02/18 with 25 students on each batch. Classes are arranged on all Saturdays and Sundays and other holidays.

## **15.12 National Conventions / Seminars**

Institution conducts annual seminars/workshops to promote research activities of the students and faculty members and to provide awareness regarding the modern trends and developments in different Engineering Technology.

- **TECHSYNOD** : Every year , during the month of December, the college conduct a national conference and workshop jointly organized by two departments.
- **INTERNATIONAL CONFERENCE** : An international conference is also organized by the college in every fifth year.
- **COLLOQUIUM** – It is the National Technical Fest is being conducted in Mohandas College of Engineering & Technology during the even semester of each academic year. Colloquium has been organized uninterrupted for the last 16 years and students from across India participated in various programmes.

- **PRABANDH**- The National Educational Seminar, jointly organized by the departments of ECE, EEE & CSE .It is a platform for the post-graduation students to present their research projects.
- **ILLUMINATI** –It is an inter collegiate cultural festival for the college. Students from various college participating in this cultural extravaganza conducted during odd semester of an academic year.
- **ARTS FESTIVAL** – An Annual Arts Fest is conducted during the odd semester of each academic year.
- **SPORTS** – An Annual Sports Meet is conducted during the even semester of each academic year.

### **15.13 Students Clubs**

The college provides the facilities for organizing activities for promoting the artistic talents of the students through various Clubs namely Painting, Drawing, Drama, Paper Presentation & Debate, Music and Dance clubs, National Service Club, Entrepreneurship Development Club. Each student is entitled to join in any of these clubs based on his/her interest. A yearly workshop in the above activities is organized and engaged by professional/ eminent personalities in respective areas.

### **15.14 Department Associations**

Each department has its own associate on with all students and faculty as members and several co-curricular activities are conducted under the banner of these associations.

- ❖ ACES : Association of Department of Computer Science and Engineering
- ❖ ELIXIR : Association of Department of Biotechnology and Biochemical Engineering
- ❖ ETERJA : Association of Department of Electrical and Electronics Engineering
- ❖ MASTEC : Association of Department of Computer Application.
- ❖ MEXTREYAZ : Association of Department of Mechanical Engineering Association
- ❖ SCULTURA : Association of Department of Civil Engineering
- ❖ SPECTRA : Association of Department of Electronics and Communication Engineering

## 16. ACADEMIC REGULATIONS FOR B.TECH, 2019

This may be called the A. P. J. Abdul Kalam Technological University Academic Regulations for B. Tech, 2019. These are subject to the provisions of the APJ Abdul Kalam Technological University Act, 2015, the statutes and ordinances if any issued in the subject from time to time. It is the express understanding that these regulations are subject to the approval of the concerned statutory bodies of the University. These regulations shall be applicable for students admitted from 2019 onward.

<b>1. Preamble</b>	
R1.1	The University has the right to modify the regulations from time to time.
R1.2	In all matters related to the regulations, the decision of the University and its interpretation given by the BOG shall be final and binding.
<b>2. Admission</b>	
R2.1	Admission policy, eligibility for admission and admission procedure shall be decided by the University or the competent statutory authority for admissions from time to time.
R2.2	If at any time after admission, it is found that a candidate has not fulfilled any of the requirements stipulated by the University or the statutory body concerned, the Vice Chancellor may revoke the admission of the candidate and report the matter to the BOG.
R2.3	No student shall be permitted, under any circumstances, to change the branch/stream to which he/she is admitted by the competent authority for admission.
R2.4	A student admitted to a particular institute shall continue studying in that institute till the completion of the course, unless he/she is permitted an inter college transfer as per R9.1 to 9.12.
<b>3. Structure of B.Tech. Program.</b>	
R3.1	The duration of the B.Tech. Program shall be 4 years (8 semesters)
R3.2	The maximum duration shall be six academic years spanning 12 semesters.
R3.3	Every academic year shall have two semesters "1 <sup>st</sup> July to 31 <sup>st</sup> December (Odd semester)" and "1 <sup>st</sup> January to 30 <sup>th</sup> June (Even semester)". Each semester shall have minimum of 72 working days. The vacation of the faculty and staff shall be as per the Government orders from time to time.

R3.4	Every branch of the B.Tech Program shall have a curriculum and syllabi for the courses approved by the Academic Council. Syllabus for any course shall be normally modified / updated once in four years. However, innovative elective courses can be included as and when required, on the recommendations of the respective Board of Studies and subject to the approval of the Academic Council. All revisions shall be based only on the recommendations of the Board of Studies concerned.
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R3.5	The academic programs of the University follow the credit system. The general pattern is as below:	
	1 Hr. Lecture (L) per week	1 credit
	1 Hr. Tutorial (T) per week	1 credit
	1 to 2 Hours Practical(P) per week	1 credit
	3 to 4 Hours Practical(P) per week	2 credit
The workload of a faculty member shall be the actual number of hours engaged by the faculty member.		

R3.6	The curriculum of any branch of the B.Tech. Program shall have a total of 160 academic credits and 2 additional pass/fail credits.
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R3.7	Every course of B. Tech. Program shall be placed in one of the nine categories as listed in table below.			
	S. No.	Category	Code	Breakup of Credits
	1	Humanities and Social Sciences including Management courses	HSMC	08
	2	Basic Science courses	BSC	26
	3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	ESC	22
	4	Professional core courses	PCC	66
	5	Professional Elective courses relevant to chosen specialization/branch	PEC	19
	6	Open subjects – Electives from other technical and /or emerging subjects ` as specified in the	OEC	09



	curriculum concerned.		
7	Project work, seminar and internship in industry or elsewhere	PROJ	10
8	Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	MC	Non credit
9	Mandatory Student Activities (Pass/Fail)	S A	2
Total Credits			162
R3.8	No semester shall have more than six lecture-based courses and two laboratory and/or drawing/seminar/project courses in the curriculum. Credit per semester shall not be less than 15 or greater than 25 and cumulative credits shall not be less than 162.		
R3.9	The medium of instruction shall be English. All examinations, project/seminar reports and presentations shall be in English.		
<b>4. Academic Monitoring and Student Support.</b>			
R4.1	Advisory System: There shall be one Senior Faculty Advisor (SFA) for a class and a faculty advisor (FA) each for 25 to 35 students in the class. The Principal shall assign a regular faculty member with minimum five years of experience as the Senior Faculty Advisor (SFA) in discussion with the Head of Department concerned.		
R4.2	The documents regarding all academic and non academic matters of students under an advisory group shall be kept under the custody of Faculty Advisor/Senior Faculty Advisor.		
R4.3	All requests/applications from a student or parent to higher offices are to be forwarded/recommended by his/her Faculty Advisor/Senior Faculty Advisor. Students and parents shall first approach their Faculty Advisor/ Senior Faculty Advisor for all kinds of advices, clarifications and permissions on academic matters. It is the official responsibility of the institution to provide the required guidance, clarifications and advices to the students and parents strictly based on the prevailing academic regulations.		

R4.4	<p>The SFA shall arrange separate or combined meetings with advisors; course faculty, Parents and students as and when required and discuss the academic progress of students under their advisory group. The Senior Faculty Advisor/ Faculty Advisor shall also offer guidance and help to solve the issues on academic and non-academic matters including personal issues of the students in their advisory group. Advisory meetings shall preferably be convened:</p> <ol style="list-style-type: none"> <li>1. Immediately after the commencement of the semester.</li> <li>2. Immediately after announcing the marks of first internal evaluation test.</li> </ol> <p>The internal marks, activity points earned during the semester and eligibility of attendance shall be uploaded in the University portal only after displaying the same in the department notice board at least for two working days. This is for the information and feed back of the students. Any concerns raised by the students regarding attendance and internal marks and activity points shall be looked into in the combined meetings of advisors, course faculty and the students concerned. The principal/ HoD shall ensure the proper redressal of the concerns raised by the students regarding internal assessment and attendance. The FA/SFA shall be the custodian of the minutes and action taken reports of the advisory meetings.</p>
R4.5	<p>The SFA shall get the minutes and action taken reports of advisory meetings approved by the Head of Department and the Principal. It shall be the duty of the HoD and the Principal to produce it before the University as and when required.</p>
R4.6	<p>The FA/SFA shall keep a hard copy of the consolidated statement of attendance, activity points and internal marks of the students in their advisory group. It shall be kept with the HoD without fail for all sorts of inspections.</p>
R4.7	<p>Regular communication with the parents of students in respect of progress in academic matters and other general issues shall be the responsibility of the Senior Faculty Advisor/ Faculty Advisor.</p>
R4.8	<p>The Principal shall inform/forward all regulations, guide lines, communications, announcements etc issued by the University regarding student academic and other matters to the HoDs/ Senior Faculty Advisors for information and timely action.</p>

R4.9	It shall be the official responsibility of the Principal to arrange necessary orientation programmes to the HoDs, SFAs and SAs regarding student counselling, the prevailing University norms, regulations, guidelines and procedures on all academic and other University related matters.
<b>5. Academic Auditing of affiliated institutions.</b>	
R5.1	<p>There shall be academic auditing in each affiliated college at stipulated intervals. The academic auditing shall be conducted jointly by an Internal Quality Assurance Cell (IQAC) within the college and external academic auditor(s) appointed by the University. The Internal Quality Assurance Cell (IQAC) in each college shall oversee and monitor all the academic activities including all internal evaluations and examinations. This cell shall prepare academic audit statements in the formats prescribed by the University for each semester at regular intervals. These reports shall be presented to the external academic auditor(s), who shall use it as reference for independent auditing. The external auditor(s) shall submit the final audit report to the University in the prescribed format.</p> <p style="padding-left: 40px;">Academic auditing shall cover:-</p> <ol style="list-style-type: none"> <li>1. Course delivery and adherence to the course plan, syllabus coverage, quality of question papers used for internal examinations, internal evaluation, maintenance of laboratory experimental set ups and equipments, practical assignments, mini projects and conduct of practical classes and their evaluation.</li> <li>2. Co-curricular and Extra-curricular activities available for students, the monitoring mechanism of activity points to be earned by the students.</li> <li>3. Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic, environment, learning ecosystem, academic accountability, academic achievements and benchmarking.</li> <li>4. The audit shall also cover the quality criteria prescribed by NBA/NAAC.</li> </ol>

<b>6. Assessment</b>				
R6.1	There shall be End Semester Examinations (ESE) in every semester for all courses as prescribed under the respective curriculum, except the Lab/ workshops courses for 1 & 2 semesters. The End Semester Examinations shall be conducted by the University. Semester classes shall be completed at least ten days before the commencement of the End Semester Examination.			
R6.2	The End Semester Examinations (ESE) shall be held twice in a year – May/June session (for even semesters) and November/December session (for odd semesters). However, the End Semester Examinations of the VII and VIII Semesters shall be conducted in both the sessions.			
R6.3	Candidates in each semester shall be evaluated both by Continuous Internal Evaluation (CIE) and End Semester Examinations (ESE). The ratio of Continuous Internal Evaluation (CIE) to End Semester Examinations (ESE) shall be as below :			
	1. Theory Courses : 1 : 2 2. Laboratory Courses : 1 : 1 3. Project : CIE only 4. Seminar : CIE only			
R6.4	Continuous Internal Evaluation (CIE)): The Continuous Internal Evaluation shall be on the basis of the day-to-day work, periodic tests (minimum two in a semester) and assignments (minimum two). The faculty member (s) concerned shall carry out the Continuous Internal Evaluation (CIE) for the course allotted to him/her. The CIE marks for individual subjects shall be computed by giving weightage to the following parameters unless otherwise specified in the curriculum.			
	Course	Attendance	Tests	Assignment/ Class work/ Course project.
	Theory	20%	50%	30%
	Drawing/ Practical	20%	40%	40%
	There shall be minimum two internal evaluation tests, each of 2hrs duration. Each test shall cover 50% of the syllabus and shall be for 50marks. Retest shall be permitted to the students who could not appear for the internal tests due to			

	<p>genuine grounds. Three days shall be utilised for conducting the internal evaluation test.</p>	<p>a. Work assessed by the project guide – 30%</p> <p>b. Three member Continuous Internal Evaluation Committee – 40% ( Guide shall be one member in the CIE committee)</p> <p>c. Final Evaluation by a three member Committee comprising of the department project coordinator, guide and an external expert. The external expert shall be an academician or from industry. The industry expert is preferred : 30%</p> <p>d. One third of the project credit shall be completed in VII semester and two third in VIII semester.</p>
	<p>Seminar</p>	<p>The report and the presentation shall be evaluated by a team of internal members comprising three senior faculty members based on the style of presentation, technical content, adequacy of reference, depth of knowledge and overall quality of the report.</p> <p>a) Attendance : 10%</p> <p>b) Guide : 20%</p> <p>c) Technical content : 30%</p> <p>d) Presentation : 40%</p>
<p>The CIE marks for the attendance (20%) for each theory, practical and drawing shall be awarded in full, only if the candidate has secured 90% attendance or above in the subject. If a student has attendance for a subject below 90%, reduction in the marks for the attendance shall be made proportionally. The CIE marks obtained by the student for all subjects in a semester are to be published at least 5 days before the commencement of the University examinations. Duty leave shall be accounted for awarding the internal marks for attendance.</p>		

R6.5	Students, who have completed a course but could not write the end semester examination, shall be awarded "I" Grade, provided they meet other eligibility criteria (R6.6). They shall register (exam registration) and appear for the end semester examination at the next opportunity and earn the credits without having to register (course registration) for the course again.
R6.6	The main eligibility criteria for registering to the End Semester Examination are attendance in the course and no pending disciplinary action. The minimum attendance for appearing for the End Semester Examination is 75% in each course. Students who do not meet these eligibility criteria are awarded an FE grade.
R6.7	The students with FE grade shall register for the courses during the normal semesters in which the courses are offered. However, for the seventh and eighth semester FE grade students can register for the courses in the next immediate chance, if offered by their institute.
R6.8	A student who does not register for all the courses listed in the curriculum for a semester shall not be eligible to enroll for the next higher semester.
R6.9	The maximum number of credits a student can register (course registration) for, in a semester is limited to 08 credits in excess of the total mandatory credits allotted in the curriculum for that semester.
R6.10	A student will be eligible for the award of B. Tech. Degree of the University on satisfying the following requirements: <ol style="list-style-type: none"> <li>1. Fulfilled all the curriculum requirements within the stipulated duration of the course.</li> <li>2. Earned the required minimum credits as specified in the curriculum for the branch of study (R3.6 and R3.7).</li> <li>3. No pending disciplinary action.</li> </ol>
R6.11	Students registered for a course have to attend the course regularly and undergo the Continuous Internal Evaluation (CIE) and appear for the End Semester Examinations (ESE). Credits for the course are deemed to be earned only on getting at least a pass grade 'P' or better in the composite evaluation.

R6.12	Pass minimum for a course shall be 40% for the End Semester Examination and 50% of CIE and ESA put together. Letter grade 'F' will be awarded to the student for a course if either his/her mark for the End Semester Examination (ESE) is below 40 % or the overall mark [Continuous Internal Evaluation (CIE) + End Semester Examination (ESE)] is below 50 %.		
R6.13	Students who received F grade in an End Semester Examination shall have to appear for the End Semester Examination at the next opportunity and earn the credits. They shall not be permitted to register for the course again.		
R6.14	Continuous Internal Evaluation mark percentage shall not exceed 30% over the End Semester Examination mark %. CIE marks awarded to a student shall be normalised accordingly. For example if the end semester mark % is 40, then the maximum eligible CIE mark % is 40+30 = 70 %.)		
R6.15	Grading is based on the overall % marks obtained by the student in a course, as given in 6.16. The grade card shall only give the grades against the courses the student has registered. Semester grade card shall give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).		
R6.16	<b>Grade and Grade Points</b>		
	<b>Grades</b>	<b>Grade (GP)</b>	<b>Point</b>
			<b>% of Total Marks obtained in the course</b>
	S	10	90% and above
	A+	9.0	85% and above but less than 90%
	A	8.5	80% and above but less than 85%
	B+	8.0	75% and above but less than 80%
	B	7.5	70% and above but less than 75%
	C +	7.0	65% and above but less than 70%
	C	6.5	60% and above but less than 65%
	D	6.0	55% and above but less than 60%
P (Pass)	5.5	50% and above but less than 55%	
F (Fail)	0	Below 50% (CIE + ESE) or Below 40 % for ESE	

	FE	0	Failed due to lack of eligibility criteria (R6.6)		
	I	0	Could not appear for the end semester examination but fulfills the eligibility criteria.		
	Classification of B. Tech Degree.	First Class with Distinction		CGPA 8.0 and above	
		First Class		CGPA 6.5 and above	
	Equivalent percentage mark shall be = $10 * CGPA - 2.5$				
R6.17	<b>Minimum Cumulative Credit Requirements for Registering to Higher Semesters</b>				
	<b>Semester</b>	<b>Allotted Credits</b>	<b>Cumulative Credits</b>	<b>Minimum Cumulative Credits required for B. Tech</b>	<b>Minimum Cumulative Credits required for B. Tech Lateral Entry.</b>
	First	17	17	Not Applicable	Not Applicable
	Second	21	38	Not Insisted	Not Insisted
	Third	22	60	Not Insisted	Not Insisted
	Fourth	22	82	Not Insisted	Not Insisted
	Fifth	23	10	21 Credits from S1& S2	Not Insisted
			5		
	Sixth	24	12	Not Insisted	Not Insisted
			9		
	Seventh	15	14	47 Credits from S1 to S4	09 Credits from S3 to S4
			4		
	Eight	16	16	Not Insisted	Not Insisted
			0		
R6.18	There is no provision for improving the grade. However, the student is permitted to check the answer books of the End Semester Examination after the results are declared, on payment of the prescribed fee. Any discrepancy in evaluation could be brought to the notice of the Controller of Examination, who shall initiate appropriate action as per the University Examination Manual.				



R.6.19	<p>The students can apply for revaluation of the answer books of the end semester examination after the results are declared. The final mark awarded will be the better of the two marks. If the difference in marks obtained in revaluation and the original valuation is more than 15% of the maximum marks, it shall be sent for third valuation. The final mark shall then be the average of the closer of the two marks obtained in the three valuations to the advantage of the student or the mark obtained in the original valuation whichever is higher. The Controller of Examination shall examine such cases and conduct proper enquiry to see whether any of the examiners is responsible for negligent valuation of answer script and initiate suitable action as per the University Examination Manual.</p>
R6.20	<p>Grade cards shall be made available in the student login for the registered courses, in every semester. On earning the required credits for the degree, the University will issue the final consolidated grade sheet for the B. Tech program including CGPA.</p>
R6.21	<p style="text-align: center;"><b>Calculation of SGPA/CGPA</b></p> <p>Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.</p> <p>SGPA = <math>\frac{\sum(C_i \times G_{P_i})}{\sum C_i}</math> , where 'C<sub>i</sub>' is the credit assigned for a course and 'G<sub>Pi</sub>' is the grade point for that course. Summation is done for all courses specified in the curriculum of that semester. The failed and incomplete courses shall also be considered in the calculation.</p> <p>CGPA = <math>\frac{\sum(C_i \times G_{P_i})}{\sum C_i}</math> , where 'C<sub>i</sub>' is the credit assigned for a course and 'G<sub>Pi</sub>' is the grade point for that course. Summation is done for all courses specified in the</p>

	<p>curriculum up to that semester for which the 'CGPA' is needed. Here the failed courses shall also be accounted.</p> <p>CGPA for the B. Tech programme is arrived at by considering all course credits that are needed for the degree and their respective grade points.</p> <p>For students admitted under lateral entry scheme, credits for the first and second semester courses shall not be accounted for the calculation of CGPA.</p> <p>Equivalent percentage mark shall be = <math>10 * CGPA - 2.5</math></p>
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R6.22	<p>Any act of violation of University directions, indiscipline, misbehavior, or unfair practice in examinations from the part of students, faculty members, staff, institution, management or any other source shall be viewed very seriously. It is the legal responsibility of the principal and the college management to see that the examinations are conducted strictly as per the directions of the University and as specified in the examination Manual. Malpractices in examinations observed or reported by an official employed by the University, faculty member, invigilator or anybody shall be immediately reported to the Principal. The principal shall in turn conduct a preliminary enquiry giving the student concerned a chance to explain his/her case. The Principal shall then forward the case with his/her preliminary enquiry report and remarks to the Controller of Examinations along with all related documents and evidences within two working days. The Controller of examination shall decide the course of action on the issue as per the prescribed norms in the University Examination Manual.</p>
R6.23	<p>A student shall earn 2 credits by actively involving in co – curricular and extra – curricular activities as per the guidelines issued by the University from time to time. On getting minimum 100 activity points the student passes the course and earns the two credits which shall not be counted for the calculation of CGPA but mandatory for the award of the Degree. For the students admitted under lateral entry scheme the 2 credits shall be considered to be earned on getting 75 activity points. The students are required to keep a file containing documentary proofs of activities done by him/her attested by the Senior Faculty Advisor/ Faculty Advisor.</p>
<p><b>7. Break of Study</b></p>	
	<p>A student is permitted to avail break of study:</p> <ul style="list-style-type: none"> <li>i) In case of accident or serious illness needing prolonged hospitalization and rest.</li> <li>ii) In case the student has a bright idea and would like to initiate a start-up venture or develop a product.</li> </ul>

R 7.1	<p>iii) In case of any personal reasons that need a break in study.</p> <p>iv) For internship leading to employment.</p> <p>For break of study due to illness, student shall submit all necessary medical reports together with the recommendation of the doctor treating him giving definite reasons for break of study and its duration. Before joining back, the student should submit the fitness certificate from the doctor who treated him.</p> <p>Students who want to initiate a start-up venture or a product development, have to submit a project report, clearly indicating the purpose, action plan, technical details, funding details and future plans to the college Principal. The Principal shall evaluate the proposal by constituting an expert team consisting of a technocrat and a bank executive and take an appropriate decision based on the team's recommendation. The break of study for the start up shall be permitted only after the 4<sup>th</sup> semester for a maximum duration of two semesters. This is however permitted only on successfully completing the courses listed out in the first two semesters.</p> <p>Students who require a break in study due to personal reasons shall convince the Principal on the genuine need for it by giving authentic evidence for the same.</p> <p>Students who require break in study for 'internship leading to employment' shall produce the offer letter obtained from the employer concerned. The principal shall verify the authenticity of the offer and submit his recommendation to the University sufficiently in advance for approval. Only campus placed students with an annual compensation more than 6 lakhs are eligible to avail this facility.</p> <p>In the semester system followed by the University, break of study for an academic year is the preferred option than break of study for a semester.</p> <p>The student can avail the break of study only with the prior approval of the University. The Principal shall upload the request of the student with all relevant documents to the University portal for the approval with his/her recommendations.</p> <p>Students shall have to rejoin on the first working day of the same semester on which he/she had started availing the break of study.</p>
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<b>8.Attendance</b>	
R8.1	<p>Students are expected to attain 100% attendance for all courses. However, under unavoidable circumstances they are permitted to avail leave. Total leave of absence shall not exceed 25% of the academic contact hours for a course and 75% attendance is mandatory for registering to the end semester examination.</p> <p>On medical ground the college Principal can relax the minimum attendance requirement to 60%, to write the end semester examination. This is permitted for one or more courses registered in the semester. Principal shall keep all records which led to his decision on attendance, for verification by the Academic Auditors/ University officials. This provision is applicable only to any two semesters during the entire program period.</p> <p>In case of prolonged illness, break of study is permitted as per R7.1.</p>
R8.2	<p>The Principals are authorized to grant attendance relaxation (duty leave) to the students in officially sponsored national level competitions/championships/tournaments when called upon to do so, up to a maximum of 10%. Such students should produce the participation certificate countersigned by the University Sports Coordinator/ the Director of Physical Education in the case of sports activities and the Senior Faculty Advisor in the case of other extracurricular activities: within ten days of the event. The participation certificate thus produced shall be forwarded to the Principal with the due recommendation of the respective Head of the Department. Under any circumstances, the principal shall not consider the certificate if the overall attendance of the candidate is less than 60%. Late applications received shall not be considered on any account. The student shall get official prior permission from the University for representing the University.</p>

3	The Principals are authorized to grant attendance relaxation (duty leave) to the students for organising extra/ co-curricular activities, up to a maximum of 05%. Such students should produce the required documents countersigned by the University Sports Coordinator/ the Director of Physical Education in the case of sports activities and the Senior Faculty Advisor in the case of other extra/ co-curricular activities: within ten days of the events. The documents thus produced shall be forwarded to the Principal with the due recommendation of the respective Head of the Department. Under any circumstances, the principal shall not consider the documents, if the overall attendance of the candidate is less than 60%. Late applications received shall not be considered on any account.
<b>9. Inter College Transfer</b>	
R9.1	Inter college transfer shall be applicable only for regular B. Tech students.
R9.2	The transfer shall be permitted just before the commencement of third semester.
R9.3	The transfer shall be with effect from the first working day of the third semester.
R9.4	The transfer shall be only within the sanctioned strength of the receiving college.
R9.5	<p>The following Category of students shall not be eligible for inter college transfer</p> <ol style="list-style-type: none"> <li>1. Govt. of India Nominee.</li> <li>2. Management Quota in Aided colleges.</li> <li>3. Management Quota in private Self Financing Colleges</li> <li>4. Students admitted under NRI/PIO quota.</li> <li>5. Lateral Entry students.</li> <li>6. Students admitted under TFW Scheme.</li> <li>7. Students admitted in any supernumerary seats.</li> <li>8. Any other category which are ineligible as per the conditions for admission prescribed by Govt. of Kerala/Govt. of India.</li> </ol>
R9.6	<p>The transfer shall be permitted:</p> <ol style="list-style-type: none"> <li>1. Between Govt/ Govt. Aided Colleges.</li> <li>2. Between Self – Financing Colleges. (Including Govt. Controlled SFC).</li> </ol>
R9.7	Notification inviting application for inter college transfer shall be issued by the University just before the commencement of the third semester.

R9.8	The candidate should fulfill the academic eligibility requirement for promotion to the third semester.
R9.9	If the number of applicants is more than the vacant seats available, the transfer may be based on the Kerala Engineering Entrance Rank.
R9.10	The students shall opt only one college for inter college transfer.
R9.11	The selected candidates shall remit a fee of Rs 3000/- (No fee for SC/ST students) within the stipulated date to the University. However, this rule is not applicable to the students transferred to other institutes under "Shift College" University order.
R9.12	The College transfer once approved by the receiving college will be final and binding on the applicant. No student will be permitted, under any circumstances, to refuse the change of college once offered.
<b>10. Migration from other Universities</b>	
R10.1	Migration to the University from other Universities shall be permitted only if the parent University and the APJ Abdul Kalam Technological University enters into a bipartite agreement/ MoU for this purpose. However, this condition is not applicable to the students in any of the Engineering colleges/ institutions, which, before the commencement of KTU Act remained affiliated to Universities except Deemed to be Universities in the State of Kerala.
R10.2	The student shall be permitted to migrate only if he/she fulfills the University eligibility criteria for admission to the course applied for migration.
R10.3	The migration shall be permitted only up to the fifth semester of the B. Tech program and half the duration of the program in the case of other programs.
R10.4	The admission shall be offered on migration basis through lateral transfer of credits. Lateral credit transfer shall be as recommended by the concerned Board of Studies.
R10.5	The students shall be allowed to migrate to the University subject to satisfying the rules and regulations of the University as regards to, maximum number of backlogs, grade points, minimum credit requirement for promotion to higher semesters, etc.
R10.6	The student shall be offered admission in any of the affiliated colleges/institutions of the University subject to availability of seats. The student shall produce no objection certificate from the concerned college/institute in this regard.

R10.7	The students offered admission shall have to take transitory courses/ additional courses of the previous semesters to satisfy the program requirement as recommended by the concerned board of studies.
R10.8	The students offered admission shall pay the migration fees and the University fees as prescribed by the University. The application processing fee (University fee) shall be Rs 5000/- (Rupees five thousand only) and the migration fees shall be Rs 20000/- (Rupees twenty thousand only). The migration fee is charged for the meeting expenses of the concerned Board of studies to decide on the student suitability for migration and to recommend the transitory courses/ additional courses to be done by the student to fulfill the academic requirement of the University. The processing fee shall be paid along with the application, and the migration fee shall be paid to the University at the time of offering admission. The fee once paid shall not be refunded under any circumstances. The students in any of the Engineering colleges / institutions, which, before the commencement of KTU Act remained affiliated to Universities except Deemed to be Universities in the State of Kerala, are exempted from paying the processing fee and the migration fee.
R10.9	The migrated students shall follow the rules and regulations of the University.
R10.10	The students offered admission shall produce a migration certificate from the parent University at the time of admission.
R10.11	The student offered admission shall produce a character certificate from the parent Institute / University at the time of admission.
R10.12	Regulations, Scheme and Syllabus of the respective specialization attested by the Registrar of the parent University or equivalent authority shall be submitted to the University along with the application seeking migration to the University.
R10.13	Attested copies of all certificates and mark lists from 10 <sup>th</sup> onwards shall be submitted along with the application for migration (Original certificates and mark lists shall be produced as and when required by the University).
R10.14	Assessment of the student suitability for migration in terms of programs, backlogs, grade points, credit requirements, etc shall be done by the concerned Board of Studies.
R10.15	Assessment of the transitory courses/ additional courses to be done by the student as per the academic requirement of the University shall be as recommended by the

	concerned Board of Studies.
<b>11. Minor in Engineering.</b>	
R11.1	All B. Tech students shall be eligible to register for Minor in Engineering.
R11.2	The Minor in Engineering registration shall be along with the registration of the 3 <sup>rd</sup> semester.
R11.3	If a student fails in any course of the minor, he/she shall not be eligible to continue the B.Tech Minor. However, the additional credits and grades thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA.
R11.4	The student shall earn additional 20 credits to be eligible for the award of B. Tech Degree with Minor.
R11.5	Out of the 20 Credits, 12 credits shall be earned by undergoing a minimum of three courses, during the specified period. The total number of contact hours for these courses shall be 126 Hrs (42Hrs/course). The duration of a course shall be minimum 14 weeks. The remaining 8 credits could be acquired through two MOOCs recommended by the Board of studies and approved by the Academic Council.
R11.6	Curriculum and the syllabus of the four courses shall be approved by the Board of studies and the Academic Council.
R11.7	The assessment of the courses other than MOOCs and earning of credits shall be as per R6.1 to R6.23. The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.
R11.8	Under graduate Degree with minor shall be issued by the University to the students who fulfill all the academic eligibility requirements for the B. Tech program and Minor in Engineering.
<b>12. B. Tech (Honours)</b>	
R12.1	All B. Tech students are eligible to register B.Tech (Honours). However, their mandatory CGPA at the end of eighth semester shall be 8.5 or higher to be eligible for the award of B. Tech (Honours).
R12.2	The B. Tech (Honours) registration shall be along with the registration of the 4 <sup>th</sup> semester.



R12.3	If a student fails in any course including the course chosen for B. Tech (Honours), he/she shall not be eligible to continue the B.Tech(Honours). However, the additional credits thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA.
R12.4	The student shall earn additional 20 credits to be eligible for the award of B. Tech (Honours) Degree.
R12.5	Out of the 20 Credits, 12 credits shall be earned by undergoing minimum three specified B. Tech (Honours) Elective courses of the respective stream. Credits for the B. Tech (Honours) Elective courses are deemed to be earned only on getting at least a grade 'C' or better in the composite evaluation. A student shall not be permitted to select the normal elective courses of the respective B. Tech programs for attaining the credit requirements of B. Tech (Honours). The remaining 8 credits could be acquired through two MOOCs of the respective streams recommended by the Board of studies and approved by the Academic Council.
R12.6	The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.
R12.7	The institutions offering B. Tech Honours programs shall not charge any additional fee from the students.
R12.8	B. Tech (Honours) Degree shall be issued by the University to the students who fulfill all the academic eligibility requirements for the B. Tech and B. Tech (Honours) programs.
<b>13. Grace Marks for Sports /Arts Competitions.</b>	
R13.1	Only bona-fide, regular candidates are eligible for the award of Grace Marks.
R13.2	The criterion for the award of Grace Marks is representing the University in officially sponsored national level competitions/championships/ tournaments when called upon to do so. The student shall get official prior permission from the University for representing the University.
R13.3	The maximum grace marks that can be awarded to a candidate in a particular semester for all activities put together shall be 5% of the aggregate maximum End Semester Examination marks of all theory courses for which the University conducts End

	Semester Examinations.
R13.4	The maximum grace marks that can be awarded to a student for a theory course in a particular semester for all activities put together shall not exceed 10% of the maximum aggregate marks of End Semester Examination of the course.
R13.5	The Grace Marks shall not be awarded to a student for Practical/ Lab/ Viva Voce/ internal assessment/ Seminar etc even though she/he fails for the same.
R13.6	Eligible Grace Marks shall be distributed equally on all theory papers/courses of an examination. However, re - distribution of Grace Marks shall be allowed only in the case of those courses of an examination for which the candidate has passed. Re-distribution is possible from passed courses to failed courses only. Re-distribution of Grace Marks is not permissible from failed courses to other courses for a pass.
R13.7	The Grace Marks shall be awarded for all theory papers/courses/subjects in a semester.
R13.8	Re- distribution shall be done only for enabling a candidate to obtain the minimum marks required for a pass.
R13.09	Grace Marks shall not be re - distributed from one semester to another semester.
R13.10	If the candidate does not secure the minimum marks required for a pass even after effecting re- distribution, eligible moderation fixed by the respective board if any, shall be awarded to that candidate in addition to the Grace Marks for a pass.
R13.11	Eligible Grace Marks shall be awarded for the regular examination of the performing semester only. Grace Marks shall not be awarded for supplementary examinations.
R13.12	The performing semester shall be considered from 1 <sup>st</sup> July to 31 <sup>st</sup> December (Odd semester) and 1 <sup>st</sup> January to 30 <sup>th</sup> June (Even Semester).
R13.13	Grace Marks shall be awarded on the basis of performance in the respective semester.
R13.14	The request for Grace Marks shall be submitted to the Controller of Examinations through the principal along with all relevant documents, within the time limit prescribed by the University. The request for Grace Marks received after the time limit shall not be entertained on any account.
R13.15	Only a single highest achievement during the period of a semester shall be considered for awarding the grace marks.

<b>14. Grace Marks for Persons With Disability (PWD)</b>	
R14.1	A person with disability means a person suffering from not less than 40% of any disability as certified by the District Medical Board. To be eligible for the grace marks, the certificate of disability specifying the percentage of disability shall be produced before the Principal at the time of admission.
R14.2	The Grace Marks that can be awarded for PWD candidates shall be 25% of the marks scored by the candidate in each course at the time of finalization of the results.
R14.3	Transfer of marks from one paper to another shall not be permitted. Fractions of marks if any, while computing the Grace Marks shall be rounded off to the next higher integer.
R14.4	PWD candidates who are eligible for Grace Marks shall be awarded Grace Marks for regular and supplementary chances until they pass the whole examination.
R14.5	Grace Marks shall be awarded only for the marks of the End Semester Examinations conducted by the University.
R14.6	The request for Grace Marks shall be submitted to the Controller of Examinations through the principal along with all relevant documents, within the time limit prescribed by the University. The request for Grace Marks received after the time limit shall not be entertained on any account.
<b>15. Transitory provision.</b>	
15.1	Notwithstanding anything contained in these regulations, the Vice-Chancellor shall, for a period of two years from the date of coming into force of these regulations, has the power to provide by order that these Regulations shall be applied to any B. Tech program with such modifications as may be necessary.

## 17. CURRICULUM TEMPLATE FOR SEMESTERS I & II

### SEMESTER I

SLOT	COURSE NO.	COURSES	L-T-P	HOURS	CREDIT
A	BSC	ENGINEERING MATHS (CALCULUS AND MULTI VARIABLE CALCULUS)	3-1-0	4	4
B 1/2	BSC	ENGINEERING PHYSICS	3-1-0	4	4
	BSC	ENGINEERING CHEMISTRY	3-1-0	4	4
C 1/2	ESC	ENGINEERING MECHANICS	2-1-0	3	3
	ESC	ENGINEERING GRAPHICS	2-0-2	4	3
D 1/2	ESC	BASICS OF CIVIL & MECHANICAL ENGINEERING	4-0-0	4	4
	ESC	BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING	4-0-0	4	4
E	MNC	LIFE SKILLS	2-0-2	4	--
S 1/2	BSC	ENGINEERING PHYSICS LAB	0-0-2	2	1
	BSC	ENGINEERING CHEMISTRY LAB	0-0-2	2	1
T 1/2	ESC	CIVIL & MECHANICAL WORKSHOP	0-0-2	2	1
	ESC	ELECTRICAL & ELECTRONICS WORKSHOP	0-0-2	2	1
<b>TOTAL</b>				<b>23/24 *</b>	<b>17</b>

\*Minimum hours per week

## SEMESTER II

SLOT	COURSE NO.	COURSES	L-T-P	HOURS	CREDIT
A	BSC	ENGINEERING MATHS (DIFFERENTIAL EQUATION AND LINEAR ALGEBRA)	3-1-0	4	4
B 1/2	BSC	ENGINEERING PHYSICS	3-1-0	4	4
	BSC	ENGINEERING CHEMISTRY	3-1-0	4	4
C 1/2	ESC	ENGINEERING MECHANICS	2-1-0	3	3
	ESC	ENGINEERING GRAPHICS	2-0-2	4	3
D 1/2	ESC	BASICS OF CIVIL & MECHANICAL ENGINEERING	4-0-0	4	4
	ESC	BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING	4-0-0	4	4
E	MNC	PROFESSIONAL COMMUNICATION	2-0-2	4	--
F	ESC	PROGRAMMING IN C	2-1-2	5	4
S 1/2	BSC	ENGINEERING PHYSICS LAB	0-0-2	2	1
	BSC	ENGINEERING CHEMISTRY LAB	0-0-2	2	1
T 1/2	ESC	CIVIL & MECHANICAL WORKSHOP	0-0-2	2	1
	ESC	ELECTRICAL & ELECTRONICS WORKSHOP	0-0-2	2	1
<b>TOTAL</b>				<b>28/29</b>	<b>21</b>

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