

Information Bulletin

2021-22



GOVERNMENT COLLEGE OF ENGINEERING KANNUR

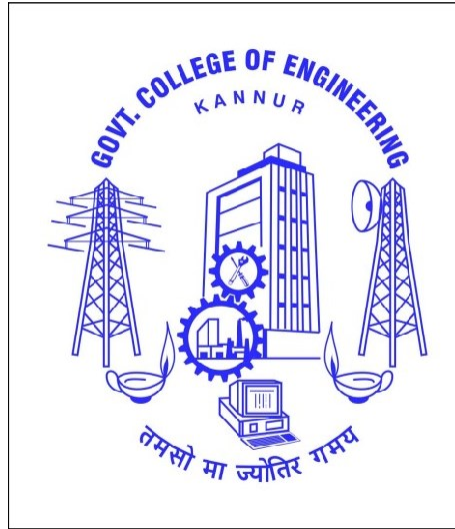
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KANNUR**

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1 COLLEGE AT A GLANCE

1.1 Profile

Government College of Engineering Kannur was established in the year 1986 and started functioning at Kannur Town High School. Later in 1992 it was shifted to the present campus at Mangattuparamba which has an area of 68 acres, located about 15 kilometers towards north from the Kannur Railway station. In the past three decades the college has witnessed remarkable changes, both in terms of its infrastructural development and academic achievements. As a result, this engineering college now stands rated as one among the best of its kind in Kerala.

The college is affiliated to Kerala Technological University (KTU). The college offer BTech and MTech Programmes.

The college has a total built up area of approximately 300000 m² including hostels and staff quarters. The central library houses around 40000 books in addition to those available in the department libraries. It subscribes to digital resources such as ASME, ASCE, IEEE and Science Direct online international journals. Another attractive feature of this academic institution is the availability of more than 700 branded computer systems in various laboratories, well equipped Central Computing Facility with sufficient computers. The campus has a 1 GBPS internet connection provided by the National Knowledge Network along with a 30 MBPS back up connection provided by BSNL. The entire academic area is covered by a 300 MBPS Wi-Fi network. The college has separate hostels for boys and girls that can accommodate 300 and 400 students respectively. Coupled with this, the 30 faculty quarters in the campus provide a rich residential experience. Besides, the college has a guest house facility with a capacity to accommodate 20 guests. College also has another 16 family quarters to accommodate the supporting staff.

1.1.1 Vision

A globally renowned institution of excellence in Engineering Education, Research and Consultancy.

1.1.2 Mission

To contribute to the society by providing quality education and training leading to Innovation, Entrepreneurship and Sustainable growth.

1.1.3 Programmes

The college offers the following graduate and post graduate programmes:

Sl. No.	Name of U G Programme(s)	Intake
1	Civil Engineering	60+3(FW)+6 (LE)+6(EWS)
2	Mechanical Engineering	60+3(FW)+6 (LE)+6(EWS)
3	Electrical & Electronics Engineering	60+3(FW)+6 (LE)+6(EWS)
4	Electronics & Communication Engineering	90+5(FW)+9 (LE)+9(EWS)
5.	Computer Science & Engineering	60+3(FW)+6 (LE)+6(EWS)

Sl. No.	Name of P G Programme(s)	Intake
1	Computer Aided Structural Engineering (Under the Dept. of Civil Engineering)	18 +2 (EWS)
2	Energy Engineering (Under the Dept. of Mechanical Engineering)	18 +2 (EWS)
3	Advanced Manufacturing and Mechanical Systems Design (Under the Dept. of Mechanical Engineering)	18 +2 (EWS)
4	Power Electronics and Drives (Under the Dept. of Electrical & Electronics Engineering)	18 +2 (EWS)
5	Power Systems (Under the Dept. of Electrical & Electronics Engineering)	18 +2 (EWS)
6	Signal Processing & Embedded Systems (Under the Dept. of Electronics & Communication Engineering)	18 +2 (EWS)

SI No.	PhD Programme, Branches	Total Scholars
1	Civil Engineering	4
2	Mechanical Engineering	6
3	Electrical & Electronics Engineering	7
4	Electronics & Communication Engineering	8
5	Computer Science & Engineering	2

1.1.4 Internal Quality Assurance Cell (IQAC)

Quality enhancement is a continuous process at Govt. College of Engineering Kannur, the IQAC is the part of institution's system and work towards realizing the goals of quality enhancement and

sustenance. The motto of the IQAC is to achieve quality through continuous improvement with cooperation of all stake holders. It will channelize and systematize the efforts of the University towards academic excellence.

The Academic Auditing system comprises of two bodies: the Internal Quality Assurance Cell (IQAC) at the Institution level and the External Auditor at the University Level. The IQAC will function as a body assisting the External Auditor.

The members of IQAC are:

Sl. No.	Name	Role in IQAC	Members
1	Dr. V. O. Rejini	Chairperson	Head of the Institution
2	Prof. Asokan O. V.	IQAC Coordinator	Senior Faculty
3	Dr. Vandana Sreedharan	Institutional member	Faculty to represent CE department
4	Mrs. Bindu M. D.	Institutional member	Faculty to represent ME department
5	Dr. Anilkumar T. T.	Institutional member	Faculty to represent EEE department
6	Prof. Jesy P.	Institutional member	Faculty to represent ECE department
7	Prof. Bincy Antony M.	Institutional member	Faculty to represent CSE department
8	Dr. Mahesh Kumar P. (MED)	Dean	UG Affairs
9	Dr. Sajith K., ECED	Dean	PG Affairs
10	Dr. Ranjith Ram A., ECED	Dean	Research Studies
11	Administrative member	Director, SPFU-TEQIP, Govt. of Kerala	
12	Nominee from students	One nominee from local society	
		One nominee from alumni	
		One nominee from Industry	
		One nominee from Professional body	

Functions of IQAC are:

1. Taking a lead role in undertaking Academic Audit and to give feedback with the purpose of devising quality enhancement programmes.
2. Facilitating the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
3. Arrangement for feedback responses from students, parents and other stakeholders on quality related institutional processes.

4. Dissemination of information on the various quality parameters of higher education including NBA Accreditation.

The IQAC will meet at least once in every quarter. It is necessary for the members of the IQAC to shoulder the responsibilities of generating and promoting awareness in the institution and to devote time for working out the procedural details. The institution also needs to submit quarterly, the Quality Assurance Report (QAR) to the affiliated APJ Abdul Kalam Technological University.

1.1.5 Institutional Head and Head of all departments

SI No.	Designation	Name
1	Principal	Dr. V. O. Rejini
2	Head of Departments	Dr. Mitra D. C., (CED)
		Dr. Rajesh Vanchipura (MED)
		Dr. Sreekumar C., (EEED)
		Dr. Vinod Kumar V., (ECED)
		Dr. Rafeeqe P. C., (CSED)
		Prof. Sivadas P. V., (MD)
3	U G Dean	Dr. Mahesh Kumar P., MED
4	P G Dean & FSDTC coordinator	Dr. Sajith K., ECED
5	Research Dean	Dr. Ranjith Ram A., ECED

1.1.6 Accreditation

The National Board of Accreditation (NBA), India was initially established by the AICTE (All India Council of Technical Education) under section 10(u) of AICTE Act, in the year 1994, in order to assess the qualitative competence of the programs offered by educational institution from diploma level to post-graduate level in Engineering and Technology, Management, Pharmacy, Architecture and related disciplines, which are approved by AICTE. Major benefits of the accreditation by NBA include AICTE preferential funding, top preference from companies conducting campus interviews, exemption from undergoing tests for higher studies and employment in foreign countries that have a tie up with NBA. UG programmes of EEE, ME, CE and ECE has been Accredited by **National Board of Accreditation (NBA) for 3 years**. Over the period of its existence, the NBA has introduced a new processes, parameters and criteria for accreditation that are in line with the best international practices and oriented to assess the outcomes of the programme.

1.2 Governance

1.2.1 Board of Governors (BOG)

As a constituent apex body of the college, a Board of Governors has been constituted as per G. O (MS) No.207/10/H. Edn. dated 31-07-2010 Thiruvananthapuram. The following are the members

of the B.O.G. It is mandatory that the BOG meet at least four times in a year (or as and when needed) to discuss, plan for strengthening Institutions to improve learning out comes and employability of graduates.

The members of BOG are:

SI. No.	Name	Designation with BOG	Original Affiliation
1	Dr. T. R. Sreekrishnan	Chairman	Professor & Dean (Student Affairs), IIT Delhi
2	Dr. C. B. Sobhan	Member	Professor & Head, School of Nanoscience and Technology, NIT Calicut.
3	Mr. K. G. Krishna Kumar	Member	M. D, Keltron Component Complex Ltd, Kannur
4	Dr. Rajesh K. N.	Institutional member	Associate Professor Department of Civil Engineering, GCE Kannur
5	Dr. C. Sreekumar	Institutional member	Professor, Electrical and Electronics Engineering Department, GCE Kannur
6	Dr. Vrinda V. Nair, Dean (Research) KTU	Member (Ex- officio)	University nominee
7	Dr. Ramesh Unnikrishnan (Regional officer & Director, AICTE (SWRO), Thiruvananthapuram)	Member (Ex- officio)	AICTE nominee
8	Member (Ex- officio)	Higher Education Department nominee	
		Principal of institution	
		Govt. Finance Department nominee	
		Director, SPFU	
		Director of Technical Education	

1.2.2 College Council

College council is constituted with Principal, Dean (PG), Dean (UG), 6 HoDs (CE, ME, EE, EC, CSE and Applied Science depts., Hostel warden and Placement coordinator. The council has the liberty to conduct “extended council” as and when needed with invited members. College council will regularly meet every week on Tuesday at 2.30 PM. The Principal is the ex-officio President of the council and the secretary is appointed by the council. Council members will be assigned some general administrative work of the college under the general supervision of the Principal. The council is empowered to discuss and recommend a policy regarding any matters referred to it by the Principal. However, it shall not interfere in any manner with the general administration of the college, which is entrusted with the Principal.

1.2.3 Advisory System

All students will have faculty advisors whose role is to guide and help students on academics, to

monitor their progress in academics and advise them and to counsel them and handhold them in any difficulty. Faculty advisors maintain a student's record about their personal information and academic progress report. A senior faculty advisor is also there to monitor the progress and other academic backgrounds of students.

1.2.4 The College Union

The college has a student's union elected in a democratic way. The objectives of the college union are:

1. To facilitate the students at the college in performing their duties, responsibilities and right of citizenship.
2. To promote opportunities for the development of character, leadership, efficiency, knowledge and the spirit of service among the students.
3. To encourage sports, arts and other cultural, educational and recreational activities.
4. The term of the college union is generally one year from the date on which the union assumes office or till the date of the election to the union in the subsequent year.

The union council comprises of the following office bearers:

1. President of the union- Principal of the college. (Ex-officio): Dr. V. O. Rejini
2. Staff Advisor nominated by the President: Dr. AnilKumar T. T., EEED
3. Chairman
4. Vice Chairman (Reserved for Girls)
5. General Secretary
6. Joint Secretary
7. Student Editor of the College Magazine.
8. General Captain of Sports and Games.
9. University Union Councillors
10. The Secretaries of the various branch associations.
11. One representative from every class (year wise)

The posts (3) to (9) given above shall be filled by college union election in which all students on roll are the voters. The posts (10) and (11) are filled by election in which the students of the particular association or class as the case may be are voters.

1.3 Fee Structure and Rules & Regulations

1.3.1 Fee Structure

BTech Programme

Specific Head	First Year
Admission Fee (only for first admission)	240
Tuition Fee/Year	6300
Special Fee (Revenue)/Year	1740
Special Fee (PD)/Year	370
Caution deposit	1000
Bus Fee/Year	2000
Student Administration Fee	1000
Examination Fee (First Sem)	1500
TOTAL	14150

MTech Program

Specific Head	First Year
Admission Fee (One Time)	240
Tuition Fee/Year	12600
Special Fee (Revenue)/Year	1740
Special Fee (PD)/Year	1950
Caution deposit	1500
Bus Fee	2000
Student Administration Fee	1000
Examination Fee (First Sem)	1500
TOTAL	22530

1.3.2 College Timings

Class Timing	9.00 am to 4.00 pm
College office timing	9.30 am to 4.30 pm
Library	10.00 am to 5.00 pm
Hostel office timing	9.30 am to 4.30 pm
College Co-operative store	9.00 am to 4.00 pm
Central Computer Facility	9.00 am to 7.00 pm

1.3.3 Dress code and Identity card

Students should follow the dress code of specified pattern as announced by the college. Uniform is compulsory inside the campus for carrying out all academic as well as non-academic activities inside the campus. In addition, when they go to laboratories and workshop, they must wear shoes.

An identity card with photograph will be issued to all students. Students must wear the same always when they come to the college and must produce the same on inspection.

Students who come without uniform and ID Card displayed properly will not be permitted to attend any activities in the campus and fine will be levied and credited to the college development fund maintained by the PTA.

1.3.4 Students code of conduct

Any student who is undertaking a course of study in Govt. Engineering College, Kannur is subject to the Discipline Regulations put forward by the Discipline Committee of the college for maintaining a smooth and conducive atmosphere to achieve optimal learning conditions, enabling the successful implementation of its mission in reaching the institute vision of "A globally renowned institution of Excellence in Engineering Education Research and consultancy.

The students must abide by all the guidelines to maintain appropriate standards of conduct, failing in which will attract disciplinary action.

The best practices, rules and responsibilities of students, enforced in Govt. Engineering College, Kannur is as follows.

Responsibilities of students:

A good student is also a good person. Nothing is more appreciated in a student than courteous and mannerly behavior, show due respects to the teachers, staff members and fellow students at the college.

Students are encouraged to attend all academic works in time and in full duration. No students will enter or leave the classroom when the session is running without the permission of the concerned teacher.

Students should submit all their applications to the office through proper channel. For submitting any application students should submit a request duly recommended/forwarded by the staff advisor and then forwarded by respective head of department. Applications submitted to the office directly (not through proper channel) will not normally be considered or further processed under any circumstances.

Students should bring all instruments/equipment/books/supporting tables required and permitted for their academic use. Borrowing these items from other students of the same or other class is not permitted under any circumstances.

Students are expected to spend the free hours in the library/reading room/computer centers. They should not loiter along the verandahs or crowd at the gate or around the office. Sitting in the passages in the pretext of using the WIFI, will be highly discouraged.

All are required to follow the Green Protocol implemented in the campus and students are in no way an exemption. Use of waste bins of different kinds for disposing the non- needy items should

be made a practice.

Duty leave

Students are eligible for duty leave on recommendation from the concerned authority if they perform certain kinds of duty for the college like representing the college in sports and games and involving in the college union and association activities. Duty leave can be recommended only by the faculty members who are authorized to do so. Duty leave should be submitted to the Principal or to the designated authority, preferably before the duty is performed or soon after returning from duty, but not later than three working days. Students should submit duly filled application attached in the annexure, with supporting documents, if any, and make sure that the leave has been sanctioned in time. They should submit a copy of leave sanctioned to the staff advisor and keep the original with them and produce it as and when necessary.

Grounds for disciplinary proceedings

1. Students misconduct attracts disciplinary action.
2. Disruption of classroom activity and examinations or hindering the learning of their students anywhere in the College.
3. Copying /cheating on assignments or in examinations
4. Behaviours which interfere functioning of the College, disrupts education, endangers the health or safety of staff or students or damages any property within the campus including the College property.
5. Pasting posters or conducting students meeting/ protests/ processions within the campus without prior permission of the college authorities
6. The possession or use of intoxicating beverage and illicit drugs inside the campus.
7. The failure to return loaned materials or settle dues to the College
8. Student vehicles are not permitted inside the campus beyond the parking area near the campus gate.
9. Unauthorized entry will be viewed as indiscipline and attract disciplinary action
10. Disciplinary action includes but not limited to
 - Reprimand or warning
 - Withholding of official transcripts.
 - Suspension of campus privileges including Hostel accommodation.
 - Suspension of expulsion from the College
 - Any other disciplinary action which the College authorities deem appropriate in the circumstances.

11. All disciplinary actions will be recorded in the students record and conduct certificate will be issued based on the remarks in the student record.
12. It is mandatory for all students GCE, Kannur to sign a declaration in the prescribed format in the presence of their parents that he/she will be following the code of conduct & practice and all other disciplinary rules prevailing in the campus/imposed by the Principal from time to time. All academic activities of the student will be started on signing the declaration and handing over the same to their class advisor.
13. Any act that causes or is intended to cause physical or psychological stress or harm to any person.
14. Students should not bring mobile phones and other electronic gadgets which are prohibited in the campus by the Government. Use of mobile phones in the classroom attracts fine and disciplinary action.
15. Students are not supposed to scribble down on the walls, doors, window, furniture etc. with graffiti, bills, engravings etc. Learning not to damage property whether public or private is one of the primary requirements for civilized behavior.
16. Students are not permitted to indulge in any activities that disturb the class and other academic works.
17. Students are forbidden to organize and to attend the meetings inside the campus other than the official ones and other meetings duly permitted by the Principal.

All grievances and complaints of the students can be brought to the notice of the class advisers/HOD/Principal by the individual student or their representatives directly in person. The recommended practice is to settle the issue at first with the help of class advisors, then with the HOD and then with the Principal. The preferred timings for such meetings are the break time. However, grievances of general nature can be taken directly to the committee appointed by the Principal.

Prior permission should be taken for meeting the Principal. As a general rule, the Confidential Assistant (CA) of the Principal should be approached for arranging a meeting.

As per the judgment of the Hon'ble Court of Kerala the usage of college campus and compound walls for advertisement is strictly prohibited. The premises of educational institution should not be used for any purpose other than for educational use.

Any student who is persistently insubordinate, who is repeatedly or willfully mischievous, who is guilty of fraud or malpractice in connection with examinations or who in the opinion of the principal is likely to have an unwholesome influence on his fellow students shall be removed from the rolls. The removal shall be either temporary or permanent according to the gravity of the offence.

Grievances relating to gender bias and discrimination affecting women in the campus can be reported to the Women's Cell directly. Details of Women's Cell Members including their contact phone numbers are published in the College Website.

Prohibition of Mobile phones, Cinematic dance, Fashion shows etc.

Ref:

1. GO (Rt) No. 346/05/H.Edn dated 1-3-2005
2. GO (Rt) No. 1102/05 /H.Edn dated 24.06.2005
3. Govt. Circular No. 30115/ k3 /2009/H.Edn dated 10-2-2010
4. Circular No. EKI/2002 dated 23-11-2002 of University of Kerala

As per the vide reference cited above, Government have given specific instructions to restrict the use of mobile phone and prohibit fashion shows and vulgar dances in the campuses. Accordingly institutional level Ethics committee has been constituted with the Principal as chair person. In compliance with the order of Honourable High Court of Kerala and the instructions issued by the Government surprise inspection squad is also constituted in the institution to ensure the compliance of instructions issued. The squad is empowered to conduct surprise inspections in the campus and will furnish report to the Principal and Ethics Committee for further necessary action. As per the instructions given by the Government, The Ethic committee will forward monthly report to the District level committee that chaired by the District Collector. The State level committee with Honourable Minister for Education as chairperson will review the reports bimonthly and issue necessary orders in these circumstances, all are directed NOT to bring Mobile phone with camera or ordinary phone even in switch off position to the campus. No excuses will be entertained. Also the use and possession of mobile phones, pagers, programmable calculators, digital diaries and any other transmitting electronic de- vices are not to be allowed inside the examination halls. Any violation of the stipulation will be treated as malpractice.

1.3.5 Anti-Ragging Initiative

Ragging in any form is strictly prohibited. Senior students are not permitted to invite their juniors to their rooms for any introduction meeting. The Anti-Ragging committee of the college consists of a Convenor and 5 members. The list of members with their contact numbers is available in the College website. Students can report any incident of ragging to any responsible faculty/staff including the HOD's of respective departments. Convenor of Anti ragging committee or Chief Warden (Men & Women) can be directly approached for remedial action. Consequently, action on ragging cases will be as per the Government guidelines and as per the provisions contained in the THE KERALA PROHIBITION OF RAGGING ACT 1998. Ragging in any form is prohibited and any incidence of indulging in ragging will be reported to the police.

Ragging is a non-bailable offence.

Ragging may also attract punishment as per section 4 of the “The Kerala Prohibition of Ragging Act 1998” which leads to imprisonment, for a term of maximum 2 years and a fine for 10000 inconviction.

Ragging: - Ragging constitutes one or more of any of the following acts:

1. Any conduct by any students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness to a fresher or any other student.
2. Indulging in rowdy or undisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student.
3. Asking any student to any act which such student will not in the ordinary course do and which has the effect of causing of generating a sense of shame, or torment of embarrassment thereof in any fresher or any other student.
4. Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or fresher.
5. Exploiting the service of a fresher or any other student for completing any task assigned to and individual or group of students.
6. Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students.
7. Any act or physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health of a person
8. Any act or abuse by spoken words, email, post, insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student.
9. Any act that affect the mental health and self-confidence of a fresher or any other students with or without intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.
10. A “Fresher” Means a student who has been admitted to an institution and who is undergoing his/her first year of study in such institution.

Actions will be taken against student for indulging and abetting ragging depending upon the nature and gravity of the offence as established. The possible punishments for those found guilty of ragging at the institution level are any one or any combination of the following:

1. Cancellation of admission
2. Suspension from attending classes

3. Withholding/ withdrawing a scholarship/fellowship and other benefits. Debarring from appearing in any test/ examination or their evaluation process.
4. Withholding results
5. Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.
6. Suspension /expulsion from the hostel.
7. Rustication from the institution for period ranging from 1 to 4 semesters.
8. Expulsion from the institution and consequent debarring from admission to any other institution. Collective punishment: when the persons committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment as a deterrent to ensure community pressure on the potential raggers.

In case of ragging, you may directly contact in person or over phone to any one of the following persons:

Principal	Dr. V. O. Rejini	Mob: 9400006415
Hostel Warden	Prof. Rajan T., MED	Mob: 9497232197
Staff Advisor	Dr. Anilkumar T. T., EEED	Mob: 9446535628
UG Dean	Dr. Mahesh Kumar P., MED	Mob: 8075161822
PG Dean	Dr. Sajith K., ECED	Mob: 8301074144
Research Dean	Dr. Ranjith Ram A., ECD	Mob: 9447637667

An anti-ragging monitoring committee has been constituted in this institution as per the guidelines issued by the Principal.

1.3.6 Scholarships and stipends

1. Prime Minister's Special Scholarship Scheme (PMSSS)

Provide academic fee (tuition and other admissible fee) and maintenance allowance (to bear expenses on account of hostel & mess fee, cost of books and other incidental charges) to students belonging to Jammu & Kashmir and Ladakh who, after passing Class XII or equivalent examination secure admission through AICTE's counselling process under the supernumerary quota created by the Government.

Centre Co-Ordinator	Prof. Baby C. J. Assistant Professor, CSED
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2. National Scholarship Scheme

Government of India have formulated a National Scholarship Scheme, which will be awarded on the basis of the marks in the School Leaving examination, Higher Secondary examination or the first Degree examination. The award will be limited to scholars, the income of whose parents does not exceed Rs. 2,50,000 per year.

3. Merit scholarship for the children of primary and secondary school teachers

This scholarship is awarded based on the matriculation or equivalent examination and the higher secondary examination.

4. Merit scholarship

District Merit Scholarship (DMS) based on SSLC marks, Rs. 4000 per year, University Merit Scholarship (UMS) based on HSC marks, Rs. 2500 per year, are also available.

5. Government of India Post Metric Scholarship

This is a Government of India Scholarship based on economic criteria of Students.

6. National Talent Search (NTS) Scholarship

This is a Government of India scholarship based on NTS Examination.

7. Government of Kerala National Loan Scholarship schemes.

This is available based on marks obtained in the qualifying exam.

8. Interest free repayable loan scholarship by Government of Kerala

This scholarship is given by the Government of Kerala to students of engineering institution based on marks obtained in the qualifying exams.

9. Financial assistance to the students belonging to Fisherman community for higher studies

This scholarship is given by the Government of Kerala to students belonging to Fisherman community.

10. Educational concession to the students belonging to backward community.

Full fee concession, lump sum grant for purchase of books and dresses, pocket money of Rs. 100 for hostellers and Rs. 75 for day scholars per month and monthly stipend or boarding and lodging charges.

11. Converted to Christianity from Scheduled Caste and Scheduled Tribes and Other Eligible Communities

Full fee concession, monthly stipend of Rs. 180 half the lump-sum grant sanctioned to scheduled caste students for purchase of books and dresses. Actual boarding and lodging will be paid to students if they are residing in the hostel attached to the professional college. All students whose parent's annual income does not exceed Rs. 42,000 are eligible for fee concession under KPCR Scholarships.

12. E-Grantz

Online centralised system for disbursement of scholarships/schemes for all pre-matric and post matric students of SC/ST and OBC community in the state of Kerala

1.3.7 CMS (Campus Management Software)

The college has a very efficient and transparent computerized and centralized attendance monitoring system. It ensures a fool proof record of attendance and marks of students and details of class engagements for ensuring an effective monitoring of both. A login ID is provided for all the students and Faculties for accessing the site.

Staff in Charge of CMS	Mr. Bineesh K. B. Computer Programmer., CSED
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2. DEPARTMENT AND ACTIVITIES

2.1 Civil Engineering Department

The Department of Civil Engineering is functioning at Govt. College of Engineering Kannur since 1986. The department offers a four-year course leading to the Bachelor's degree in Civil Engineering and two-year courses leading to Master's degree in Computer Aided Structural Engineering (CAS). The department has produced several eminent engineers who have made significant contributions in the planning and execution of Civil Engineering projects in India as well as abroad. In the year 2006 the department was recognized as Research Center in Kannur university. Over four decades, the department has carved its niche in the areas of academics, research, consultancy, collaborative projects, and publications. The department has been actively involved in conducting conferences, workshops, FDP's, site Visits, project tours and several students related programs to provide a platform for sharing and spreading the latest developments in the field of Civil Engineering.

The B.Tech Programme of this Dept. is accredited by National Board of Accreditation (NBA), New Delhi for three years.

Vision

A major resource centre for imparting and contributing to the knowledge in Civil Engineering.

Mission

To impart quality education to the students of Civil Engineering and mould them into high end professionals, and excel in areas of research and consultancy to help develop a sustainable built environment hence be instrumental in the development of society and the Nation

Programme Educational Objective (PEO):

1. To excel in the professional practices of Civil Engineering by utilizing the acquired knowledge and technical skills.
2. To pursue study and research through post graduate programmes and research programmes in advanced areas of Civil Engineering.
3. To take an efficient part in the decision making process in fast changing management atmospheres of infrastructural development.
4. To fulfill the commitment to the society by contributing to it by means of active involvement in matters connected with built and natural environment by adopting energy efficient and sustainable practices in civil engineering.
5. To develop strong interpersonal skills to form a part of and to lead a team, working towards attaining a common goal.

2.1.1 Lab Facilities

Materials Testing Lab

The Materials Testing Lab of the department gives an insight to the behaviour of building materials through scientific studies and shapes an engineer's perspective on the functional properties of materials. The available facilities include Universal Testing Machines (200,100 & 60 tonnes), spring testing machine, and machines for testing hardness, flexural strength, impact strength, tile abrasion, ultrasonic pulse velocity test equipment, etc.

Survey Lab

This lab introduces the students to the basics of plane and geodetic surveying using precision instruments like total station, levels, micro-optic and electronic theodolites, plane table and compass. This lab gives sufficient exposure to the students in the relevant and up to date aspects of surveying. Consultancy works for major public and private organisations are also undertaken.

Geotechnical Engineering Lab

It concentrates on foundation engineering with emphasis on soil sampling and site investigation, using equipments like direct and shear apparatus, consolidometer, plate load testing machine, unconfined compression testing machine etc. Investigation for shallow and deep foundations is also carried out. It undertakes consultancy services in soil investigation, testing and foundation design.

Transportation Engineering Lab

The Transportation Lab of the department has specialised facilities like California bearing ratio apparatus, Marshal stability testing machine, Los Angeles abrasion testing machine, impact testing machine and other equipments to analyse the quality of bitumen. The focus here is on the pavement design of highways and runways.

Environmental Engineering Lab

It primarily deals with physical, chemical and bacteriological analysis of potable water and sewage. The lab maintains equipment's like microprocessor-based gas chromatograph, BOD incubator, refrigerator centrifuge, turbidity meter etc.

Computer Lab

The departmental computer lab has a client-server computing facility. There are more than 20 systems connected through LAN. The lab is also equipped with internet Facility. It has the latest design and plotting software like STAAD, Auto CAD, STRAP, NISA Civil, SAP etc.

Basic Workshop

The basic workshop of the Civil Engineering department is where the students study the fundamentals of workshop practice. The first-year students of all the departments are required to attend the workshop classes here.

Computational Lab (MTech)

Imparts training on State - of - the art Structural Engg. software and Developing Application Programmes.

Stress Analysis Lab (MTech)

Familiarises the students with strain gauges, LVDTs, NDT etc. and measurement of strains and deflections.

Structural Dynamics Lab (MTech)

This is a recently set up lab for the benefit of post-graduate students of Computer Aided Structural Engineering (CAS). The lab imparts strong computational skills in the Finite Element Analysis (FEA) through hands on training using software such as ANSYS, ABAQUS, SAP, etc. Also, the lab provides students to build experimental stress analysis by providing access to latest Data Acquisition (DAQ) systems. The lab was funded with a grant-in-aid from AICTE worth Rs. 15.5 lakhs.

Research Centre

The Department of Civil Engineering of this institution is the only one Research Centre for Engineering under Kannur University. Good quality research work is in full swing in the Department, evidenced by the publications in Journals of greater impact factor.

2.1.2 Department Library

In addition to the Central Library, a well-equipped departmental library is functioning in the department catering to the needs of the faculty and students with a seating capacity of 20. The department library is well stocked with around 1267 books. Additionally, the department library also stocks UG and PG project reports. The library is kept open from 9 a.m. to 4 p.m. on all working days.

2.2 Mechanical Engineering Department

The Department of Mechanical Engineering has been functioning in the college since its inception in 1986. Started with 40 students for UG programme, the intake was increased to 60 in 1999. The department also offers a PG programme in Advanced Manufacturing and Mechanical Systems Design with an intake of 18 students. The total students' strength of the department is 301. The sanctioned post for the faculty members is 20 and that for the support staff is 31. Students' performance is very good that they secure good grades, get placed in reputed companies through campus recruitments and also get admissions for higher studies in well reputed institutes in the country and abroad.

The BTech programme of this Dept. is accredited by National Board of Accreditation (NBA), New Delhi for three years.

Vision

A prime destination for excellence in Mechanical Engineering.

Mission

To provide contemporary mechanical engineering and managerial expertise and to facilitate research and entrepreneurship consultancy for the benefit of the stakeholders.

Program Educational Objectives (PEO):

In the first few years on the job, the graduates of Mechanical Engineering of Government College of Engineering - Kannur, using their knowledge gained in their undergraduate engineering programme, should be able to:

1. Apply their technical proficiency for the professional practice of mechanical engineering
2. Exhibit exemplary skills in design, drawing and analysis of systems
3. Enroll and succeed in a post graduate programme in advanced areas of mechanical engineering
4. Lead an effective team working towards attaining a common goal and take important decisions in competitive business environments.
5. Contribute to the society by actively involving in energy, environment and health- related issues

The department of Mechanical Engineering has a qualified competent faculty and technical staff strength, which enables us to undertake various industrial consultancy projects, research projects etc. The department has signed MoU's with leading industries and Indian Naval Academy- Ezhimala. It has a Solar Radiation Resource Assessment Centre by National Institute of Wind Energy under MNRE.

2.2.1 Lab Facilities

CAD/CAM Lab

This sophisticated lab caters to the syllabus requirements at par with the latest trends in manufacturing and automation industry. The lab is fully equipped with the latest CNC machines and latest CAD / CAM /CAE software covering computer aided design, analysis and manufacturing fields. The lab has the finest blend of the world's leading software which include CATIA, ESPRIT, I-DEAS, INVENTOR, MECHANICAL DESKTOP, AutoCAD, NISA, ANSYS, VN4D, Pro-E, Solid Works, Autodesk master suite etc. The department conducts regular training programmes in "CAD/CAM/ CAE software" and "CNC programming and operations " under the continuing education program. The lab is fully equipped with work stations and higher end PCs.

Hydraulics Lab

The Hydraulics lab with Fluid Mechanics and Machines sections houses various test rigs on hydraulic machines like Pelton, Kaplan and Francis turbines. Experiments are conducted on different type of pumps ranging from centrifugal to gear pumps. A separate section is devoted to display cut models of different components of pumps and turbines. The Fluid Mechanics section deals with various flow measuring devices like venturimeters, orifice meters and notches. Other experimental set ups include the Bernoulli apparatus, a hydraulic ram and a recently introduced cavitation test rig.

Instrumentation Lab

It provides an introduction to instrumentation engineering with the focus on areas of industrial calibration, psychrometry etc. It also has various equipment's like ultra-sonic flow detector, sound level meter, optical profile projector, which are widely used in industries all over the world. It is also equipped with devices to analyse the exhaust gas of vehicles. It undertakes the calibration of pressure gauges.

Production Engineering Lab

The production Engineering Lab of the department provides the necessary exposure to the different machining processes. The facilities available here include various types of lathes, shaping, grinding, planning, slotting, and milling machines. Different short-term courses are organised on the various machining processes.

Thermal Engineering Lab

The Thermal Engineering Lab provides a platform for the students to launch into the world of engines and refrigeration equipments. The available facilities include test rigs for diesel and petrol engines, compressors and blowers. A computerised variable compression ratio diesel engine test rig is also installed. A separate section is devoted to the performance measurements of vapour compression refrigeration system air conditioning system, heat pumps etc. The lab is well equipped to determine the calorific value and other parameters of any fuel used in engines. The Heat Transfer section details with different experimental set- ups on the study, analysis and measurement of heat transfer. The facilities available include heat exchangers emissivity measuring apparatus, and different experimental set-ups on conduction, convection and radiation.

Advanced Manufacturing Lab

This lab is meant for post graduate students of the department, and is equipped with CNC machines, robot training system, NDT methods, dynamic analysis of systems, Co- ordinate measuring machine etc. The lab is funded by AICTE under MODROB Scheme for FMS development

Basic Workshop

The basic workshop of the Mechanical Engineering department is where the students study the fundamentals of workshop practice. The first-year students of all the departments are required to attend the work shop classes here. The basic workshop has different section namely Carpentry, Smithy, Foundry, Fitting, Welding and Sheet Metal

Computer Centre

The department of Mechanical Engineering has a separate computer centre and is well equipped with a server and about 30 new generation PCs connected in LAN. It is provided with latest accessories like printers, scanners, CD writers etc. In addition to the software available in the CAD/ CAM lab of the department, the computer centre has other application software, which is used by the students on a regular basis.

2.2.2 Model Room

The department is proud to have a big and diverse collection of still and working models relating to different streams of Mechanical Engineering. All the models are neatly displayed in a separate room and are open on all working days.

2.2.3 Solar Radiation Resource Assessment (SRRA) Station

A Solar Radiation Resource Assessment (SRRA) Station was inaugurated by Dr. G. Giridhar, Director, SRRA project, Ministry of New and Renewable Energy (MNRE), at Government college of Engineering, Kannur on 31-07-2014. Our centre is one among two stations allotted to Kerala state. This institution is proud to have one at its campus, managed and supervised by the department of Mechanical Engineering. The installation will pave way for increased research and student projects in the area of solar and renewable sources of energy. Ministry of New and Renewable Energy has initiated this major project on Solar Radiation Resource Assessment (SRRA) station across the nation to assess and quantify the solar radiation availability along with weather parameters with a view to develop Solar Atlas. Centre for Wind Energy Technology (C-WET), Chennai is implementing the project by installing a network of 115 Solar Radiation Resource Assessment (SRRA) stations in two phases in different States using high-quality, high-resolution equipment/instruments.

2.3 Electrical & Electronics Engineering Department

The Department of Electrical and Electronics Engineering started its functioning along with the establishment of the college in the year 1986. The department has been established with the firm commitment of developing and producing quality Electrical and Electronic Engineers with high-

technical knowledge and good practical basis, combined with leadership skills and decision making capabilities.

The faculty in the department is a rich blend of personnel with industrial and professional experience. The dedicated staff members have sound knowledge in emerging areas like control systems, Biomedical Engineering, Non-conventional Energy Sources, Digital Signal Processing, Power electronics applications in power systems etc.

Vision

To be a centre of quality education in Electrical Engineering & enrich the youth with sound technical knowledge to intellectually power tomorrow's world in the service of humanity.

Mission

To elevate the infrastructural facilities and impart latest technical knowledge and competency to the students, enabling them to take up a successful career in industry, research and academia or as an entrepreneur, thus contributing to the overall development of the society.

Program Educational Objectives (PEO)

The faculties of Electrical & Electronics Engineering, in consultation with stakeholders have established the following five Program Educational Objectives (PEOs) for each of its students:

1. Core Competence: Possession of a broad base knowledge of Electrical & Electronics Engineering for providing engineering solutions within the appropriate technological and societal, context so as to enable their career and professional growth.
2. Breadth: Acquire the mathematical and scientific knowledge to serve as a foundation for lifelong learning, needed to solve emerging real-world problems.
3. Professionalism: Develop the creative and critical reasoning skills, along with the communication and teamwork skills necessary to excel in engineering positions in industry and other organizations of multidisciplinary projects;
4. Preparation: Our graduates are expected to continue career development through professional study in the best graduate schools and to excel in reaching advanced degrees in engineering and related disciplines.
5. Learning Environment: Our graduates are expected to be good citizens and cultured human beings, with full appreciation of the importance of professional, ethical, health and societal responsibilities and acquire an appreciation for workplace diversity and diversity of opinion.

2.3.1 Lab Facilities**Electrical Workshop**

The students get exposure to various materials, MCB / ELCB etc. and get training in the electrical wiring system, design and installation. The fluorescent lamp and incandescent lamp

circuits with different controls are familiarised.

Electrical Measurements Lab

The fundamental theorems in electrical engineering like Thevenins theorem, Superposition theorem etc. are verified in this lab. The lab is equipped with measuring instruments like Wheatstone bridge, Kelvins double bridge, Potentiometer and provides a platform for calibration of Voltmeters, ammeters and energy meters.

Electrical Machines Lab

The students get an insight into the wide array of heavy electrical machines. The installed facilities include DC machines, three phase slip ring and squirrel cage induction motors, synchronous machines, trans-formers, pole changing motors etc.

Electronics Lab

It provides an introduction to the characteristics of basic electronic devices like diodes, transistors, UJT, FET etc. The lab also provides intensive training facilities for electronic circuit design and implementation. New generation electronic devices like digital storage oscilloscope are available for the analysis of OPAMP and digital systems.

Advanced Electrical Engineering Lab

It deals with an in-depth analysis of control systems using sophisticated equipment's like PID controllers, magnetic amplifiers, LVDTs, synchro transmitter receiver and the like. 8085 and 8086 microprocessor kits, interfacing devices like DAC, ADC, audio tape interface, stepper motor interfaces, which helps the students to get acquainted with the concept of programming and interfacing principles.

Computer Lab

The departmental computer lab is equipped with two high end servers and forty numbers of desktop computers, connected in LAN. In addition to the laser, inkjet and dot matrix printers, the lab also has scanners, CD writers and a xerox machine. To develop the computational skills of students, advanced computational software like MATLAB, Multisim and SKM power tools are installed and regular laboratory experiments are conducted using these software.

Power Electronics Lab

Various experiments related to the power semiconductor devices and converters are introduced in this lab. With an over view of the characteristic of basic power electronic devices like SCR, BJT, MOSFET, IGBT etc., the emphasis laid on various converters like ac-dc converters, which help the students to get acquainted with latest development in the area of power electronics.

Power Electronics & Drives Lab (MTech)

In addition to various fundamental power electronic converters, the dc motor driver, familiarised here. Moreover, latest signal processes like DSP and FPGA are introduced for the control of motors.

2.3.2 Model Room

The Model room displays various models including dismantled electrical machines and other equipment's, which help in understanding the physical concepts of electrical systems.

2.3.3 Department Library

This augmented library facility provides a vast variety of useful books as well as a reading centre, exclusively for the students of the Department of Electrical & Electronics Engineering. There is a rich collection of books in the field of Electrical Machines, Drives, Power Systems, Power Electronics etc. Books of general interest catering to the intellectual development of students and staff are also kept in the library. It also contains a large collection of project and seminar reports useful for the students and faculty members. The number of title are more than 1400 and their volume is more than 1800. The reprographic centre of the department is also functioning in the Department Library.

2.4 Electronics & Communication Engineering Department

The Department of Electronics and Communication Engineering started its functioning along with the inception of the institution in the year 1986, with an annual intake of 40 for the UG program and affiliated to the University of Calicut. Within a few years, by the shifting of the campus to Mangattuparamba, the Department got established with the institution.

The affiliation of the UG program was changed to Kannur University in the year 1996 and its intake was increased to 90 in the year 2000, after which the Department runs two batches of UG students. A PG program with the specialization Signal Processing and Embedded Systems was started in the year 2012 with an annual intake of 18. With the formation of Kerala Technological University (KTU), all the programs got affiliated to it, with an intake of 120 with effect from the admission for the year 2015.

Vision

A supreme centre for quality education, research and consultancy in electronics and communication engineering.

Mission

To impart knowledge in the field of electronics and its related areas with a focus on developing the required competencies and virtues for the sustainable development of the society

Programme Educational Objective (PEO)

In the first few years on the career, the graduates of Electronics and communication engineering of Government College of Engineering Kannur, through the skills earned during their course of study should be able to

1. Apply their technical proficiency to the developing fields of electronics and communication engineering – both in industry and education.
2. Impart their computational and simulation skills in the state of art electronics and communication engineering for the development of the nation.
3. Enroll and succeed in higher studies in related areas of electronics and communication engineering as well as management in India and abroad.
4. Form a part of an effective and healthy team, while working with others of diverse cultural and interdisciplinary backgrounds and leading it to attain a common goal.
5. Work towards community related issues like energy, environment and health

2.4.1 Lab Facilities

Electronics Workshop

All the first year students get exposure to electronic components, semiconductor devices, PCB and soldering practices. This gives the familiarisation and practices in handling the electronic system in their respective engineering field.

Electronic Circuits

This is the basic and the core lab, which introduces a student to the world of electronic equipments. This lab emphasizes on instilling in the students, the skills of designing and developing a wide range of electronic circuits using modern testing and measuring instruments like cathode ray oscilloscopes, function generators, digital multi meters, LCR meters etc. Electronic circuits of systems such as rectifiers, filters, amplifiers, oscillators, are analysed in this laboratory

Communication Engineering Lab

This laboratory introduces students to the field of Communication Engineering with sophisticated instruments like AF/RF generators, higher bandwidth oscilloscopes, DSO experiments in analog and digital communication. The students are introduced to different types of modulation techniques like AM and FM. A series of experiments are carried out in this laboratory, which include TDM, ASK, PSK, PAM, PPM and PLL.

Digital Electronics Lab

In the Digital Electronics laboratory, the students are led to the interesting world of digital IC

circuits. It facilitates an in-depth analysis of sequential and combinational type of digital electronic circuits. These include circuits with flip flops, counters, shift registers, sequence generators, code converters, etc.

Microprocessor & Microcontroller Lab

This laboratory introduces the students to microprocessors, microcontrollers and assembly language programming. Various experiments with 8086 Microprocessor and 8051 Microcontroller, interfacing them with stepper motor, ADC, DAC etc. are carried out in this laboratory. It also has the facility to train the students with macro assembler (MASM/ TASM).

Simulation and Computation Lab

Software laboratory aims at developing the programming skills of students with emphasis on technical computing and simulation softwares like MATLAB, VHDL, PSPICE etc. This laboratory is equipped with PCs and accessories like printers, scanners, etc. It also offers internet facility to the students and staff of the department for acquainting them with latest techno-logical trends and developments.

Project Lab

Project lab provides an opportunity for the students to perform experimentation related to their micro/mini/main projects. This lab is open for the students for an extended time since there necessitates to work on holidays to complete their project work. This lab facility is often operated in alliance with the Innovative electronic Club (ICC) for the benefit of students, not only for doing the routine projects, but also for promoting innovative ideas of students.

FAB Lab

A Digital Fabrication Lab also functioning under this department. A Fab Lab, or digital fabrication laboratory, is a place for learning and innovation. Fab Labs provide access to the environment, the skills, the materials and the advanced technology to allow anyone anywhere to make (almost) anything. The main machine in this lab are Shopbot CNC machine, Epilog Laser machine, Ultimaker 3 D Printer, Roland Vinyal Plotter, Electronic Workbench etc. The lab facility provides to students to make their project work and innovation activities and also provide the facility to nearby institution students and society.

2.4.2 MTech Lab Facilities

Advanced Communication & Signal Processing Lab (ACSP LAB)

The lab is mainly meant for PG students to do the experiments on digital signal processing. It is also used by final year UG students for the experiments in Digital Communication and project work. The lab is equipped with Desktop Computers, PCB machine, DSP kits (both fixed point and floating point), 320 MHz and 250 MHz DSO, server and workstation. Computational Software like MATLAB, ANSYS HFSS, Mathematica, T-CAD etc.

VLSI & Embedded Systems Lab

This Lab is meant for PG Students for conducting experiments in the field of VLSI & Embedded Systems. The lab is equipped with FPGA boards like Spartan Starter Kits, Computers, 32 channel logic Analyser, Design Software, Xilinx ISE, ASIC flow, PIC Microcontroller Development Board, ARM Development Boards, AVR Atmega Boards etc.

2.4.3 Department Library

There is a rich collection of books in the field of Electronics, Communication, Signal processing, Embedded System and books of general interest catering to the intellectual development of students. It also contains a collection of project and seminar reports useful for the students and faculty members. The department library includes books in the field of science and technology and books of general interest catering to the intellectual development of students. It also contains a collection of reports useful for faculty members and students of the department. The library is facilitated with more than 1700 books.

2.5 Computer Science & Engineering Department

The Department of Computer Science & Engineering is functioning at Govt. College of Engineering Kannur since its inception in 2001. Presently the department offers only UG programme. The UG programme is named BTech in Computer Science & Engineering. The programme was initially having AICTE sanctioned intake of 30 students. The AICTE sanctioned intake was increased to 60 students in 2011. The department currently runs four batches of UG programme per year. Students are well placed through campus placement and few are also selected for higher studies in reputed institutions. The Department provides specialized fully air conditioned labs in the department lab block for helping the students to develop and practice their practical skills. Central computing facility is available in the main block of the college which is open for everyone and supported by experienced staff from computer science department. A well furnished seminar hall is also a part of the department.

Vision

A centre of excellence, in the field of Computer Science and Engineering education and research, which extends its appreciated services to the industry and society

Mission

To develop engineers with excellent analytic, design and implementation skills, who can expertise themselves as computer professionals, research engineers, entrepreneurs or as managers, while fulfilling their ethical and social responsibilities, in a globally competitive environment.

Program Educational Objectives (PEO)

Within a short span of time after graduation, the graduates shall :

1. Be employed as computer science professionals beyond entry-level positions or be making satisfactory progress in graduate programs.
2. Be able to route their talents in to post graduate and research programs, promoting remarkable advancements in emerging areas
3. Have peer-recognized expertise together with the ability to articulate that expertise as computer science professionals.
4. Apply good analytic, design, and implementation skills required to formulate and solve computer science problems.
5. Demonstrate that they can function, communicate, collaborate and continue to learn effectively as ethically and socially responsible computer science professionals.

2.5.1 Lab Facilities

Programming Paradigms Lab

The Programming Paradigms Lab introduces students to the world of computer programming. Students are trained to program in different programming languages that falls in Imperative, Functional, Object Oriented, and Concurrent programming Paradigms. This lab is also meant for students to get familiarized with system programs like Operating System, Databases and Compilers. Experiments revealing the internals of Operating systems and the construction of compilers are done in this lab.

Hardware & Embedded Systems Lab

The Hardware & Embedded Systems Lab introduces an environment for the students to know about assembly language programming, low level C programming, microprocessors, microcontrollers, Realtime OS, FPGA boards etc. This lab also helps students to experiment with programming microprocessor and microcontrollers, interfacing them with devices like stepper motor, PC programming using assembly language, and programming Realtime OS, etc.

Network & Information Security Lab

The Network & Information Security Lab is meant for students to learn about computer networks and network security. Here students acquaint themselves with various network equipments and simulation softwares. They also learn to design client/server applications, design network protocols including network security protocols, configure network simulators, configure firewall, IDS, implement cryptographic algorithms, network attacks and counter measures etc. This lab is also equipped with QualNet, network simulation software with multi-user license.

Computer Graphics & Multimedia Lab

Students are provided with the Computer Graphics and Multimedia Lab to get familiarized with computer graphics and multimedia programming. Experiments like programming for generating basic and simple 2D graphics primitives, programming using graphics APIs like Open GL and

scientific computing using open source, image processing using image processing software, etc. are carried out at the lab.

2.5.2 Department Library

The department library includes books in the field of science and technology and books of general interest catering to the intellectual development of students. It also contains a collection of reports useful for faculty members and students of the department. The library is facilitated with more than 1700 books.

2.5.3 Project lab

The department is facilitated with a project lab mainly for final year students. This is aimed to help the students to carry out their projects smoothly.

2.5.4 Central Computing Facility (CCF)

The CCF managed by the Department of Computer Science and Engineering is a common computer centre being utilized by all students and faculty of the college. It has been facilitated with 72 Internet ready computer systems with Wi-Fi connectivity. CCF is equipped with National Knowledge Network connectivity of 100mbps and an additional service of NMEICT (National Mission on Education through Information and Communication Technology) connectivity of 20Mbps. The CCF has a reprographic centre which has high quality printer, copier and scanner Machines. The centre is open from 9 am to 7 pm on all week days and is open on Saturdays as well.

Faculty in Charge of CCF	Prof. Baburaj K. V., AP., CSED
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2.6 Department of Applied Science and Mathematics

The Department of Applied Science was established in October 1986 concurrently with establishment of the College. Although the Department is not offering any course; engaged in teaching fundamental subjects such as Chemistry, Physics and humanities subjects to BTech students, providing intellectual support for their end semester project works to encourage students to pursue careers in science and engineering

2.7 Department of Physical Education

The Department of Physical Education at GCEK aims to provide a comprehensive program for development of students and faculty through physical activities by emphasizing the relationship between physical, mental, intellectual, emotional and social well-being. It involves training and participation in different intramural and extramural sports activities, fitness training, and

organizing and conduct of various sporting events at college and university levels. The activities of the department are particularly intended to enable the students to participate and perform to the fullest extent in various sporting endeavors, as well as to provide students with an understanding of the rules, regulations and strategies of different sports and to promote their harmonious development as a responsible citizen.

Vision

A centre to instill the concepts of physical fitness among engineering students so as to help them maintain sound physical and mental health and achieve great societal goals.

Mission

To provide adequate physical education facilities and practices for the development of the health and wellbeing of the engineering students.

3 FACILITIES

3.1 College Central Library

The description of the college remains incomplete without a mention of the Central Technical Library, the main information bank for the students and the faculty. The library has a main lending section consisting of over 23000 books and a reference section of another 2000 books covering, beside the core branch subjects, topics on management, computer, higher education and industry. It subscribes to a range of journals and periodicals of national as well as international repute. There is also an audio-visual section in the library, which maintains videocassettes and CD-ROMS on an array of engineering topics and lectures by eminent personalities. In addition, another branch of the library stocks the project and seminar reports of students. Provision for a separate section devoted to arts and literature is also available.

Non technical section includes a literature section consisting of Malayalam and English works and a wide range of encyclopedias, year books, dictionaries and books providing skills on management personality development etc. Besides the central library, each Department has its own Departmental Libraries. Program specific books are available in these Department libraries. The library is functioning under the guidance of a committee.

The institute also has an IEEE library in which many of the IEEE periodicals are kept.

OPAC : Online public access catalogue (for searching the details of book)

Book bank scheme:-This scheme is only SC/ST students.

Total No. of Books	41107
Total No. of General Books	28765
Total No. of Book banks	11582
Total No. of Gifted Books	760
Total No. of Periodicals	10
Total No. of Newspaper	6

GCEK has facility to browse online journals and magazines by IEEE, ACM, Elsevier, Springer etc.

The subscriptions to these journals are renewed yearly so that UG, PG and PhD students can access them without any interrupt.

The list of E journals packages currently subscribed by GCEK are:

Sl. No.	Journal Packages	Link
1	ASME	asmedigitalcollection.asme.org
2	ASCE	ascelibrary.org
3	Springer nature	springernature.com
4	Elsevier ScienceDirect	sciencedirect.com
5	IEEE	ieeexplore.org
6	SCOPUS	elsevier.com

The library and reading room shall be kept open from 10 am till 5 pm on all working days.

3.1.1 Library Advisory Committee

This committee advise the Chief Scientific Information Officer as well as the Librarians' team of the Central Library, GCEK in design and formulation of library policies, resource development, purchase of library materials/equipment, library facilities, improvement of library, information support services and archive services. And also to support the library in matters of general policy, planning, programs, goals and objectives in its support of teaching, learning, and research needs of GCEK and smooth functioning of library.

The Committee Members are:

Chairman	Dr. Govindan P. Assistant Professor, MED
Members	Dr. Rajesh M. Associate Professor, EEED
	Dr. Deepu S. P. Assistant Professor, CED
	Prof. Amal S. Kannan Assistant Professor, ECED

3.2 College Hostel

There are five hostel blocks, two blocks A and B for boy students and the other three Blocks A, B, and C for girl students, situated nearby the main campus and Boys hostels are located at a walkable distance along Parassinikadavu Muthappan temple road nearby Parassinikadavu Snake park. Boys hostel accommodates 350 students and Girls hostel accommodates 400 students. The hostel is administered by a Hostel committee comprises of staff at various levels and periodically review the planning and execution. The committee includes Chief Warden (Principal), a senior faculty as Warden and other faculty as Resident Tutors. Residents select Mess chairman, Mess Secretary, Mess Treasurer, and other members to assist administration of the hostel. The student committee

and the hostel office work together in coordinating the hostel activities. Warden, Resident tutors and hostel Steward look after the day-to-day administration of the hostel concerned. Hostel committee and office bearers ensure the smooth functioning of the hostel.

3.3 Carrier Guidance and Placement Unit (CGPU)

Training and placement cell organizes various training sessions for the pre final year and final year students to support the students to enable them to appear for the campus selection as well as for the competitive examinations. Various activities involve aptitude tests and mock interviews conducted internally as well as by bringing experts from outside the college.

The coordinators for Placement and Training cell are:

Placement Officer GCEK	Dr. Sajesh Kumar U. Assistant Professor, ECED
Assistant Co-ordinators	Prof. Deepika K. K. Assistant Professor, CED
	Prof. Asjad Nabeel P. Assistant Professor, CSED
	Prof. Shijin Maniyath Assistant Professor, MED

Placement status of 2021 Passout Batch.

Total Offers: 217

Total Recruiters: 35

SI No.	Company	Branches	Package	Total
1	SOTI	ALL	7	0
2	Dexlock	CSE	3.2-4.0	2
3	VVDN	EEE, ECE	3.2	5
4	Guide House	ME, ECE, CSE	3.5	1
5	CTS	All	4	19
6	TCS	All	3.6/7.5	44
7	Experion	CSE	3.6-5	3
8	Quest Global	EEE, ECE	3	10
9	Wipro	All	3.5	4
10	Travancore Analytics	CSE, ECE	3.4	5
11	Mitsogo	All	4 to 5	1
12	Infosys	All	3.6	33
13	Qburst	ALL	4.26	25
14	GWMIDC	EEE, ECE	3.5	6
15	Aarbee Structures	CE	2.16/1.92	12
16	Byjus Marketing	ALL	5	6
17	Maxlinear	EEE, ECE	8	1
18	Ribbon Communications	CSE, ECE	6.4	2
19	Byjus Operations	ALL	5.5	3

SI No.	Company	Branches	Package	Total
20	MindTeck	CSE	4.3	2
21	Mindtree	ALL		1
22	Byjus TSE	ALL	8	1
23	RCKR Software	CSE	5	2
24	Mfine	CSE, ECE	5 to 7	1
25	Aapveen	ALL	5	1
26	Accenture	ALL	3.6	1
27	Sesame	ALL		0
28	UST Global	CSE, ECE	3	10
29	TATA Elxi	ALL except CE	3.5	1
30	Cloudium	ALL	3.6	1
31	Zeutec	ALL	3	1
32	DeepFlow Technologies		1.4	6
33	CSS Corp		3.29	1
34	Valorem		4.3	1
35	Impaqtive		3.5	5
			Total offers	217
			Students	171

3.4 Professional Bodies

3.4.1 Indian Society for Technical Education (ISTE)

The Indian Society for Technical Education (ISTE) is a national, professional, non-profit making society registered under the Societies Registration Act of 1860. The mission of society is formulating and implementing responsibilities and objectives of technical education. The major objective of ISTE is to develop top quality professional Engineers & Technicians needed by the industries and other organizations. The Ministry of human resource development and state government are well associated with ISTE programs relating to technical education.

ISTE Student Chapter of Govt. College of Engineering Kannur is re-established in the academic year 2016-17.

The Annual State Convention is a flagship event of ISTE. In the year 2017, the ISTE GCEK Students Chapter hosted the Annual State Student Convention namely SANGRAH and that year, the chapter won the overall Championship by scoring maximum points in the technical and managerial competition events. In the next two consecutive years, the ISTE GCEK Student Chapter won the overall Championship during the Annual state student convention which was held at NIT Calicut and GEC Barton hill, Trivandrum after which ISTE GCEK Student chapter was appreciated and honored with a National Level Appreciation. During 2020-21, Prof. Asokan O. V. was awarded with best faculty advisor award who hold the helm of ISTE GCE Kannur Chapter

ISTE GCEK Faculty Chapter Details

ISTE chapter President	Prof. Jayee K. Varghese Associate Professor, MED
ISTE chapter Secretary	Prof. Asokan O. V., Assistant Professor, EEED SMC Member, ISTE Kerala Section
Treasurer	Prof. Priyak N. K. Assistant Professor, MED

ISTE GCEK Student Chapter Details

Staff Advisor	Dr. Deepu S. P. Assistant Professor, CED
Chairperson	Ms. Vaidehi C. K.
Vice Chairperson	Mr. Nithin R.
Secretary	Mr. Sreeshanth V. S.
Chief Technical Curator	Ms. Fahiza Abdul Azeez
Treasurer	Mr. Edwin Jose George
Public Relations Head	Mr. Samuel Bennett

ISTE GCEK Forum Heads Details

Electrical & Electronics Engg. Dept.	Mr. Azeem Shoukathali
Electronics & Communication Dept.	Mr. Pratheek Nambiar
Computer Science & Engg. Dept.	Mr. Anugrah V.
Civil Engg. Dept.	Ms. Malavika Anoop
Mechanical Engg. Dept.	Mr. Ansaf Muhammed Ashraf
Think Tank	Ms. Sreelakshmi M. Rajeev

ISTE GCEK Forum Faculty Advisors

Electrical & Electronics Engg. Dept.	Dr. Shahin M., Pofessor Prof. Sukesh A., Assistant Professor
Electronics & Communication Dept.	Prof. Ramanand A. C., Assistant Professor Prof. Binoy K. P., Assistant Professor
Computer Science & Engg. Dept.	Prof. Asjad Nabeel P., Assistant Professor Prof. Bincy Antony M., Assistant Professor
Civil Engg. Dept.	Prof. Greeshma B. Nair, Assistant Professor Prof. Dhanya Raveendran, Assistant Professor
Mechanical Engg. Dept.	Dr. Sudheesh Kumar C. P., Assistant Professor Prof. Nishanth K., Assistant Professor
Think Tank	Prof. Sajith B., Assistant Professor

3.4.2 Indian Concrete Institute (ICI)

Indian Concrete Institute (ICI) is one of the leading professional bodies in India, catering to professional needs of individuals and organizations involved in concrete. It is a non-profit organization, dedicated to the cause of disseminating knowledge on concrete, to promote concrete technology and construction and to address the research needs of concrete. ICI has Student Chapters all over the country.

ICI Student Chapter (SC) was started in Government College of Engineering Kannur on 7th September 2013 for nurturing budding Civil Engineering professionals as a result of incredible

efforts of MTech. 2015 - 17 batch. The Chapter had won the Best Student Chapter award in 2015 under ICI Calicut Centre. Since then, the chapter had become dormant until 2020. ICI GCEK SC was relaunched on 18th October 2020 and was inaugurated by Er. Shaju K., Chairman of ICI Calicut Centre. ICI GCEK SC currently has 139 active student members. Dr. Deepu S. P., Assistant Professor, Department of Civil Engineering, GCEK is the current Staff Coordinator of ICI GCEK SC. The current office bearers of ICI GCEK are Dharsana P. K. (Chairperson, ICI GCEK SC) and Shirin K V (Secretary, ICI GCEK SC). The Chapter has a resourceful Advisory Board which consist of faculties from other departments of GCEK and Civil Engineering department as well. Till date, ICI GCEK has conducted several programs, competitions, workshops, and technical talks for the students of GCEK as well as other colleges, all of them with utmost efficiency and success. The Chapter was successful in releasing a technical magazine, 'EXCELSIOR', for the year 2021. The Chapter also hosted a technical fest, 'DHRUVA '21', during September 18th-21st, 2021, which included many workshops, technical talks, and competitions consisting of participants from colleges all over Kerala. Within a year of its resurrection, ICI GCEK SC was successful in providing a huge platform to foster both technical and interpersonal skills for the students.

ICI GCEK Chapter Details

ICI Faculty Co-ordinator	Dr. Deepu S. P. Assistant Professor, CED
Chairperson, ICI GCEK SC	Ms. Dharsana P. K. (S7 CE)
Secretary, ICI GCEK SC	Mr. Shirin K. V. (S7 CE)

3.4.3 IEEE Student Branch GCEK

The IEEE Student Branch of GCEK came into existence on 5th June 2009. The IEEE Head Quarters is regularly conducting contests in various category in which students can participate. These are conducted globally and the students get a chance to compete with students from Universities from other parts of the world.

IAS and PELS chapters were officially inaugurated by Dr. Sanjeeb Kumar Panda, Director of Power and Energy Section On March 11, 2019. It is mainly focused on industry leadership in energy conservation and environmental, health issues. Several activities were organised under these chapters which got great appreciation from the student members as well as from the teachers.

The goal of the Student Branch is to provide a platform for the students where they can develop co-curricular skills. The Student Branch stands for increasing the awareness of students in co-academic matters supplement their studies and help them reach higher professional standards. It is hoped that the activities of the Student Branch will generate a genuine interest among the students in their studies.

The IEEE Head Quarters is regularly conducting contests in various category in which students can participate. These are conducted globally and the students get a chance to compete with students from Universities from other parts of the world.

Vision

IEEE will be essential to the global technical community and to technical professionals everywhere and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

Mission

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity

IEEE GCEK Chapter Details

Faculty Members in charge

IEEE chapter Branch Councilor	Dr. Manoj kumar M. V. Professor, EEED
IEEE IAS Staff Advisor	
IEEE PELS Staff Advisor	Dr. M. Rajesh Associate Professor, EEED
IEEE WIE Staff Advisor	Dr. Anjali Anand K. Assistant Professor, EEED
IEEE COMPUTER SOCIETY Staff Advisor	Dr. Anjali Anand K. Assistant Professor, EEED

Student Members in charge

IEEE Student Branch Chairperson	Haritha M. E.
IEEE IAS Chairperson	Anusree R.
IEEE PELS Chairperson	Avani P. V.
IEEE WIE Chairperson	Lavanya E. V.
IEEE COMPUTER SOCIETY Chairperson	Pournami K. K.

3.4.4 Innovation and Entrepreneurship Development Center (IEDC)

An Innovation and Entrepreneurship Development Center (IEDC - GCEK) is functioning in the college with the intention of nurturing entrepreneurship and Business skills of the students. The center provides a platform for the students to pursue entrepreneurial activities and also provide assistance to potential entrepreneurs. With the prime goal of developing responsible innovators out of engineers, the IEDC strives to assist every aspiring entrepreneur on every single step. With active involvement of students the cell promotes and revitalizes the entrepreneurial culture in the college. GCEK has joined the Startup Bootcamp Scheme of the Government of Kerala, implemented through Kerala Startup Mission, which is envisaged to create a startup ecosystem in the college campus through active involvement of students. The different policies and other Professional

associations coming under IEDC GCEK are TINKERHUB GCEK, NISP Scheme, SAE GCEK.

TINKERHUB GCEK: It is a part of TinkerHub Foundation; it is a community of tinkerers, makers, policy geeks & students and are working towards mapping and empowering people who share a passion to innovate.

NISP SCHEME: The 'National Innovation and Start-up Policy 2019 for students and faculty in HEIs was launched by Hon'ble Minister of Education, Shri Ramesh Pokhriyal 'Nishank' on 11th September 2019 at AICTE, New Delhi. The National Innovation and Start-up Policy 2019 intends to guide HEIs to promote student driven innovations & start-ups and to engage the students and faculty in innovation and start up activities in campus.

SAE GCEK COLLEGIATE CLUB

The Society of Automotive Engineers (SAE) is a professional association and standards organization for engineering professionals in various industries across the world.

College Co-ordinator	Prof. Shijin Maniyath Assistant Professor , MED
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3.4.5 Scheme for Her Empowerment in Engineering education (SHE)

On identification of the burning need of empowering the girl students of GCE Kannur, it was decided to take a more assertive role in imparting them the exposure and experience they need to eventually fulfill their career demands and to assume leadership roles facing all challenges. The program Scheme for Her Empowerment in Engineering education (SHE) is initiated at GCE Kannur and proposes to enable the girl students to realize their dreams of becoming successful leaders in career and in leading a responsible life. The coordinators of SHE program have well identified the value of our resourceful alumni and have ensured their fruitful participation in gathering suggestions and information. The other promising contributors to the program are the teaching fraternity of GCEK, resource persons from external agencies and experts from different walks of life. The SHE program also seeks all the support from PTA and the HRD Cell of GCEK

Team Head	Dr. Vandana Sreedharan Assistant Professor, CED
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3.4.6 Calypso GCEK

Calypso GCEK is a college club solely working for generating and nurturing an interest and enthusiasm in space science and technology. It is a community of GCEK students who are interested and skilled in the areas of astronomy, astrophysics, aerospace science and engineering etc. Calypso aims to give the students of GCEK a common platform where they can share their love for space and all things related to space. Calypso also aspire to be the medium through which young aspirants of space can connect and network with professionals in the space industry.

3.4.7 ROBOCEK

The Robotics Club of GCEK is a teaching and learning community from Govt College of Engineering Kannur established in 2013 by a vibrant team of young enthusiasts, It has been officially recognized as ROBOCEK on 30th January 2014.

The Club is driven by a dedicated cluster of students striving for excellence through Learning, Sharing, innovation and development for exploring the intangible sphere of robotics through workshops, competitions, collaborative learning, and competitions. Some of the prestigious events conducted by ROBOCEK GCEK includes the Avega-2020 Robotics festival, Actuator workshop - 2021 and so on.

Current College Co-ordinator	Prof. Asjad Nabeel P. Assistant Professor, CSED
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3.4.8 Energy Conservation Society (ECS)

Kannur chapter of the Energy Conservation Society (ECS) has started functioning in the year 1995 with the college as its centre. The objective of the society is to foster conservation of all forms of energy and protection of environment so as to promote sustainable development of mankind.

The chapter is regularly organising energy awareness programmes like talks, seminars, workshops, quiz programmes, demonstrations etc. in association with various industries and similar voluntary organisations. It offers consultancy services on a no-loss no- profit basis to industries and commercial establishments in the area of energy auditing, energy surveying and establishment of energy monitoring systems.

3.4.9 National Service Scheme (NSS)

NSS is a team of committed volunteers lead by the programme officer which comes under the NSS technical cell Kerala. The vision of NSS technical Kerala is to mould its volunteers as 'social engineers' who knows the pulse of the community and would be able to act accordingly. Mission is to reduce the space between community and technical students.

NSS activities mainly consist of regular activities and special camps. Regular activities include campus programmes like observation of important days, tree plantation, cleaning etc. as well as community programmes like blood donation, palliative care. A seven day special camp is conducted on each academic year at nearby village which aims mainly at the rural uplift. Current year action plan includes energy conservation, waste management, adoption of nearby village etc. Volunteers from unit had participated several state level workshops and seminars at various institutes.

The staff Members in charge of unit 141, unit 257 and Unit 265 are Prof. Naveen R.D., PED, Prof. Hareesh K., ECED and Prof. Roshin Das M.P., MED respectively.

Unit 141	NSS Programme Officer Unit 1	Prof. Naveen R. D., Assistant Professor, PED
	Volunteer Secretary (Student)	Aswathy Mohan Das (S5)
	Volunteer Secretary (Student)	Royal Roy (S5)
Unit 257	NSS Programme Officer Unit 2	Prof. Hareesh K., Assistant Professor, ECE
	Volunteer Secretary (Student)	Jithesh Raj M. (S5 CSE)
	Volunteer Secretary (Student)	Anupriya P V (S5 CE)
Unit 265	NSS Programme Officer Unit 3	Prof. Roshin Das M. P. Assistant Professor, MED
	Volunteer Secretary (Student)	Nandhana Kannan (S5)
	Volunteer Secretary (Student)	Mridul P. M. (S5)

3.5 Research and development Facilities and other Initiatives

3.5.1 Centre for Excellence in Systems, Energy and Environment (CESEE)

The Centre for Excellence (CoE) in systems Energy and Environment is an initiative for interdisciplinary research and development activity at Government College of Engineering.

This is intended to enhance the impact and importance of well-conceived research outputs inside the Institution. The idea of setting up a Centre for Excellence (CoE) in systems Energy and Environment was muted during a brain storming session held at Government College of Engineering, Kannur during May 2012 under the guidance of Prof Unnikrishnan Nair, Professor, Indian Institute of Management Kozhikode and Prof. Sobhan, National Institute of Technology Calicut.

It was envisaged that the Institution needs to have a common research theme where each constituent Department can contribute immensely for the development of the centre. The centre acts a corner stone for inculcating research culture inside the campus among Departments of Civil, Mechanical, Electrical and Electronics Engineering. A formal inauguration of the centre was done by former principal, Dr. V. Syamprakash during June 2016. The centre is functioning in the newly built amenity block of the Institution.

The major activities of CESEE are:

1. CESEE has conducted three national conferences and one international conference on Systems, Energy and Environment. Several papers of international repute were presented during these conferences.
2. In addition, around 20 research seed money projects were initiated under the banner of CESEE utilizing the fund from TEQIP-II. The major beneficiaries of these conferences were post graduate

students and faculty members of this Institution.

3. Kerala Technological University has sanctioned a funding of Rs. 25 lakhs for research work on “Biogas fed Solid oxide fuel cell systems for power production”
4. International workshop was conducted on 17 February 2017 on the topic “Eco-friendly energy systems: Focus on waste to energy” with experts from TU Delft, Netherlands.

The CESEE is functioning with the following members as the research group.

Dr. Sukesh A. Assistant Professor, EEED	Convener
Prof. Dhanesh Chatta Assistant Professor, MED	Co-convener
Dr. Ajith K. K. Assistant Professor, ECED	Co-convener
Prof. Manu P. Raj, Assistant Professor CED	Co-convener

3.5.2 CERD Innovation (ICE)

Innovation Center in Engineering (ICE) is established in the college with the vision of promoting innovative projects by students. This centre functions under the control of the Centre for Engineering Research and Development (CERD), Kerala Technological University, Thiruvananthapuram. CERD sanctions a fund of the tune of 10 - 20 Lakhs according to the budget proposal submitted by the college and this fund is to be utilized annually for the innovative projects by the students which are to be supervised by the faculty members. Such projects need not be carried out as a part of curriculum, but the objective is, no student is discouraged by the unavailability of financial support, but doing innovative projects during their tenure in the college. This centre, along with the Technology Business Incubation (TBI) unit, can properly nurture the budding engineers towards moulding themselves into excellent entrepreneurs.

The objectives of ICE are : (a) to act as a promoting body to excel in innovation at all engineering streams, (b) to derive and impart the proper skill matrix to the students in innovation, (c) to identify, conceptualize and complete student research projects, (d) to publish and report research findings in peer reviewed conferences and journals, (e) to organize and conduct seminars, symposia and workshops for the benefit of the students, (f) to act as a body of professionals in promoting and incubating product design and engineering, and (g) to organize and participate in product expositions and exhibitions inside and outside the college. The coordinator of ICE heads all procurement and administration activities, including the timely scrutiny of the submitted research proposals by the students.

College Co-ordinator	Dr. Sudheesh Kumar C. Assistant Professor, MED
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3.5.3 Rural Technology Development Center (RTDC)

The Rural Technology Development Center (RTDC) is visualized to act as a link between academia and local communities, for the transfer of appropriate technology specifically developed for the betterment of the rural population. RTDC at GCE Kannur is acting as a mechanism to achieve rural advancement through S&T interventions by leveraging the huge resource technical knowledge of the college through projects and demonstrations. Government College of Engineering, Kannur with its long standing history and sound and self-sufficient infrastructure, has the competence to uphold the RTDC. GCE Kannur has a good blend of expertise in all branches of engineering with its well qualified and socially committed faculty and technical staff and envisages the collaboration of all core branches of engineering towards the successful functioning of the centre. The centre will support the traditional rural technology and upgrade them, so that it could be perfected for wider applications and employment generations and to reduce the drudgery of the rural households in the state. The chairperson of RTDC is Dr. Vandana Sreedharan, CED (Chair person, RTDC) and is monitored by the Advisory board with representation from college, industry and policy makers.

Chairperson	Dr. Vandana Sreedharan, AP, CED
Faculty in charge	Dr. Ranjith Ram A., Assoc. Prof., ECED
Faculty in charge	Prof. Baby C. J., AP, CSED

3.5.4 Unnat Bharat Abhiyan (UBA)

Unnat Bharat Abhiyan is a national wide initiative by Government of India which was set up to enable higher education institutions to contribute to the well being of the society. The National coordinating institution for this program is IIT Delhi. UBA 2.0 was launched in 2017 and GCE Kannur took part in the process by setting up a centre at the institute.

The following Panchayats were adopted by the institute to provide technical support after consulting with the local administration and the district administration.

1. Anthoor
2. Malappattam
3. Kurumathur
4. Pariyaram & Kuttyattoor

A survey was conducted in the Panchayat level as well as household level and a mobile application was developed solely for the purpose.

A project was sanctioned and funded by IIT Delhi for planting mangroves saplings at Thuruthi in Anthoor Municipality and was envisaged to stop soil erosion on the shores of the river.

The second activity taken up was a program to create a green belt for kolthuruthy instead of walls of stone to prevent soil erosion.

The previous co-ordinator of UBA is Dr. Sukesh A., AP, EEED

Current College Co-ordinator	Dr. Sooraj P., Associate Professor, MED
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3.5.5 Virtual Lab GCEK

Virtual Lab is a project initiated by the Ministry of Education, Government of India, under the National Mission on Education through Information and Communication Technology (NMEICT). The project aims to provide remote access to Laboratories in various disciplines of Science and Engineering for students at all levels from undergraduate to research. NITK Surathkal is one among 11 participating institutes for implementing Virtual lab project. GCE Kannur have signed Expression of Interest (EOI) with NITK Surathkal and become a Nodal center for virtual Lab project in 2018.

In COVID'19 Pandemic times, practical education become one of the biggest challenges in teaching and learning paradigm. The Virtual Lab is helped to provide platform for students as well as faculties to conduct laboratory teaching sessions effectively up to a large extent. Further, we have organized a 5 Day National level Faculty Development Program (FDP) during 31-Oct-2021 to 04-Sep-2021. More than 50 faculties across India have successfully completed the FDP training program.

Current College Co-ordinator	Prof. Asjad Nabeel P. Assistant Professor, CSED
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3.5.6 Industry Institute Interaction Cell (III Cell)

The purpose of the III Cell is to promote closer interaction between the college and the industry. The cell organizes seminars, workshops, industrial training and visiting of executives. Last year students of Mechanical Department had undergone internship in Kerala State Electronics Development Corporation Limited (KELTRON).

Faculty Co-coordinators of IIIC	Prof. Bindu M. D. Associate Professor, MED
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3.5.7 Intellectual Property Rights Cell (IPR Cell)

An Intellectual Property Rights Cell (IPR Cell) supported by Patent Information Centre, Kerala State Council for Science, Technology & Environment (PIC-KSCSTE), Thiruvananthapuram is functioning from 2010 onwards which organizes the classes for sharing the information about the Intellectual Property Rights, Rules and Methods among students and faculties which also helps for patenting the innovation by faculty and students. The present academic year is coordinating the IPR Cell activities.

College Co-ordinator	Dr. Shyni G. Associate Professor, ECED
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3.5.8 National Career Service (NCS)

National Career Service is a Five Year Mission Mode Project launched by the Hon'ble Prime Minister on 20th July, 2015. The project is being implemented by the Directorate General of Employment, Ministry of Labour & Employment. National Career Service (NCS) is a one-stop solution that provides a wide array of employment and career related services to the citizens of India. It works towards bridging the gap between jobseekers and employers, candidates seeking training and career guidance, agencies providing training and career counselling.

The NCS project reaches out to the people of this country through its three essential pillars i.e. a well designed ICT based portal which is NCS portal, Country wide set up of Model Career Centers and Interlinkage with all the states through employment exchanges. The digital centralized portal provides a wide range of career related services including job search, job matching, rich career content, career counselling, information on Job Fairs, services of local service providers like drivers, plumbers, etc. for households and various other services. This portal facilitates registration of Job Seekers, Employers, Skill Providers, Career Counsellors, Local Service Providers (LSP's), Career Centers, Placement Organisations, Households (for availing the services of the LSP's) and Government Departments.

College Co-ordinator	Prof. Sajeev K. Jose Assistant Professor., ECED
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3.5.9 National Academic Depository (NAD)

The vision of National Academic Depository (NAD) is born out of an initiative to provide an online store house of all academic awards. National Academic Depository (NAD) is a 24X7 online store house of all academic awards viz. certificates, diplomas, degrees, mark-sheets etc. duly digitised and lodged by academic institutions / boards / eligibility assessment bodies. NAD not only ensures easy access to and retrieval of an academic award but also validates and guarantees its authenticity and safe storage.

Digi Locker is a flagship initiative of Ministry of Electronics & IT (MeitY) under Digital India programme. Digi Locker aims at 'Digital Empowerment' of citizen by providing access to authentic digital documents to citizen's digital document wallet. The issued documents in Digi Locker system are deemed to be at par with original physical documents as per Rule 9A of the Information Technology (Preservation and Retention of Information by Intermediaries providing Digital Locker facilities) Rules, 2016 notified on February 8, 2017 vide G.S.R. 711(E).

College Co-ordinator	Prof. Sajeev K. Jose Assistant Professor., ECED
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3.5.10 Technology Business Incubator (TBI)

Technology Business Incubator - Government College of Engineering Kannur (TBI-GCEK), is

established to provide a platform for budding entrepreneurs who wish to launch themselves into the world of technology-based business careers. In the Technology Business Incubator, innovative and promising ideas can be developed into products or services using technology. This centre is designed to provide all the support to business ventures of the students as well as the public.

The TBI-GCEK has been approved as the Host Institute (HI) by the ministry of Micro, Small and Medium Enterprises (MSME) under the scheme “Support for Entrepreneurial and Managerial Development of SMEs through Incubators”.

MILE STONES

1. Kerala entrepreneurship meet - 2014
2. Inauguration of TBI- 2016
3. IEDC boot camp of Kerala start up Mission (KSUM) established - 2016
4. Independent Building for TBI - 2018
5. 3 student team incubated -2018
6. 1 product idea of TBI company got idea grant from KSUM- 2019
7. 1 Company registered as Pvt ltd – 2020

College Co-ordinator	Prof. Shijin Maniyath Assistant Professor., MED
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3.5.11 G-Suite

The institute subscribes to G-Suite for Education now renamed as Google Workspace for Education for catering to online learning requirements. This include Google’s suite of tools such as Classroom, Meet, Gmail, Calendar, Drive, Docs, Sheets, Slides, among others. All students are allotted Gmail id in the institute’s G-Suite domain with which they can access all the above features. The G-Suite is integrated with the campus LMS (Learning Management System) Etlab for seamless access.

College Co-ordinator	Dr. Ajith K. K. Assistant Professor., ECED
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3.6 Skill Delivery Platform Kerala

3.6.1 Additional Skill Acquisition Programme (ASAP)

To address the concern of the growing educated-unemployment rates of the State, the SSDP or State Skill Development Project was enacted, in the year 2012. This was following the realization that Kerala has the human resource and the potential to soar up to become a radial point for skilled manpower to the world by virtue of its demographic dividend. SSDP involves the participation of industries and training partners to execute the project tactically branched into two, ASAP

(Additional Skill Acquisition Programme) and ASEP (Additional Skills Enhancement Programme). ASAP, under the General and Higher Education Departments, works on the preventive side by training Higher Secondary and Graduate students, offering skill courses to students in need of immediate employment. ASEP, under the Department of Labour, on the curative side offers enhancement training to educated unemployed youth. Funded by ADB, ASAP has now spread out into 1052 educational institutions across the state, offering 83 courses from 24 sectors, and is expanding skill training services to all age groups through the innovative idea of Community Skill Parks.

College Co-ordinator	Prof. Sajith B. Assistant Professor, CSE Dept.
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3.6.2 Advanced Skill Development Center (ASDC)

ASAP has started an initiative to cover the skill gap of Engineering graduates through Advanced Skill Development Center. ASAP has setup Advanced Skill Development Centres in Engineering Colleges in alliance with Directorate of Technical Education Kerala and APJ Abdul Kalam Technological University. The ASDC will be functioning with Career Guidance and Placement Unit CGPU/TBI/Continuing Education Cell of the institution and will be the first point of contact between the academia, industry and training organizations for skill development in emerging areas such as Artificial Intelligence, Machine learning, Data analytics, Block Chain technologies, Virtual Reality, Product Design and Development etc. The respective colleges and ASAP jointly operates ASDC to enhance the employability of graduates and to contribute to the growing demands of the industry.

ASDC was setup in Govt. College of Engineering Kannur vide G.O (Rt) No.189/2019/HEDN dated 4-2-2019. Presently Prof. Sajith B., Assistant Professor CSE Dept. and Prof. Ramanand A. C., Assistant Professor ECE Dept. are the Coordinator and Co-coordinator respectively. An Institute Level Committee (ILC) was also constituted with Principal as chairman and H.O.Ds of various departments, ASAP Coordinators, ASAP Program Manager as members.

The ASDC had conducted several orientation sessions for students of our institution over the years on various programmes launched by ASAP like Robotic Process Automation, AI, Machine Learning, Block Chain, Coding Skills, HERE Map, Like Skills to name a few.

The ASDC had also conducted orientation sessions for students on various courses launched by IBM and TCS in areas like Blockchain, Cyber Security, Data Science, Business Analytics and Internet of Things, AI, Machine Learning etc.

The Google Associate Cloud Engineer programme in association with Google and Coursera was conducted for the last three years for the students of our institution. So far 56 students in two batches have successfully completed the Google Associate Cloud Engineer programme. The third

batch is ongoing with 24 enrolled students. The first batch of Life Skills course with 26 students enrolled started in 2019 is ongoing. The course on Robotic Process Automation in association with UiPath Academic Alliance was conducted in 2019. Around 60 students enrolled and 22 students successfully completed the same.

Around 10 teams (6 team members each) with students from different UG and PG branches had participated in the “Reboot Kerala Hackathon 2020” organized by ASAP and Higher Education Dept., Govt. of Kerala.

College Co-ordinator	Prof. Sajith B. Assistant Professor, CSE Dept.
College Co-coordinator	Prof. Ramanand A. C. Assistant Professor, ECE Dept.

3.6.3 Young Innovators Programme (YIP)

The Government of Kerala formed the Kerala Development and Strategic Council (K-DISC) with a mandate of promoting innovation in the State. The overall focus of K-DISC is to identify and nurture a critical mass of innovations in the State and to provide appropriate institutional linkages to the selected innovations. K-DISC facilitates creation of an integrated ecosystem for innovation in government and work towards complementing the roles of other agencies in the state promoting innovation and entrepreneurship.

The Young Innovators Programme (YIP), is a flagship programme of K-DISC in its innovation segment. It aims to empower future innovators to innovate new products, services or models to meet emerging requirements, unarticulated needs, or existing market needs of the society more effectively through specially designed challenges. The YIP has been modeled on the lines of the programmes of the National Science Foundation (NSF) of United States. For more details visit <https://yip.kerala.gov.in/>

This programme was first launched in 2018. Initially the programme was open only to participation of students from schools, technical schools, vocational higher secondary, industrial training schools and polytechnics. In 2019 the programme participation was expanded further into the higher education streams.

Our institution had registered for this programme during June 2019. In YIP 2019-22 cycle, 2 student teams had participated from our college. They reached up to zonal level evaluation. In YIP 2020-23 cycle 10 student teams had participated. 2 teams had reached up to zonal level evaluation. Presently YIP 2021-24 cycle has been launched and registrations of student teams are yet to begin. Each registered institution needs to nominate at least two faculty facilitators. They are expected to be agents for continuity of the YIP program within their institutions. They identify and support suitable applicants/candidates, coordinates with K-DISC and would serve as torch bearers for pursuing institutional goals in solving inspiring problems. Shri Asokan O. V., Assistant Professor

EEE Dept. and Shri Sajith B., Assistant Professor CSE Dept. were nominated as faculty facilitator for YIP 2021-24. This time as per revised guidelines Prof. Reghuthaman T. (Retd.), Maths Dept. and Mr. Abhijith Dasan, BTech S7 ME student were nominated as retired institution ambassador and student ambassador respectively.

Our institution had also signed an MoU with K-DISC in 2021 to be a partner institution in YIP for the next 3 years. Our institution has also been recognized by K-DISC as a mentoring institution in north zone for YIP participants for the themes “Solid, Liquid, and Hazardous Waste Management” and “Drinking Water, Water Conservation and Management”.

Faculty Facilitator	Prof. Asokan O. V. Assistant Professor, EEE Dept.
	Prof. Sajith B. Assistant Professor, CSE Dept.
Retired institution ambassador	Prof. Reghuthaman T. (Retd.), Maths Dept.
Student ambassador	Mr. Abhijith Dasan, BTech S7 ME

3.7 Institutional Cells

3.7.1 Counselling Cell

A counselling cell is functioning in this institution, which consists of seven faculty members and co-ordinated by a senior faculty. The aim of the cell is to identify the students having psychological, academic or personal problems and give them proper counselling. The cell conducts awareness classes by expert counsellors. Other activities of the cell include conducting yoga and meditation classes, conducting seminars and symposiums on topics like personal growth. Six students are nominated to assist the works of the counselling cell.

3.7.2 Discipline Committee

The Disciplinary Action Committee has constituted with Dr. Mahesh Kumar P., MED, Dr. Ranjith Ram A., ECED, Prof. Rajeev K.K., CSED, Prof. Saji K.P., CED, Dr. Shahin M., EED, Prof. Rekha K.P., MD. Disciplinary Committees proceedings and action are explained in section 1.3.4.

3.7.3 Internal Complaints Committee and Anti Sexual Harassment Cell

The present Anti-sexual Harassment Cell of the college is constituted with Dr. Vandana Sreedharan., CED as chairman and Prof. Saritha E., ECED, PTA Executive member, Accounts officer, Representative of Legal service forum, Municipal Ward Member as members.

3.7.4 Gender Justice Forum

This Forum is constituted with Dr. Shyni G., ECED as chairman and Dr. Annie Sabitha Paul, MD, Prof. Dhanya Raveendran, CED, Ms. Sindhu V., Senior Superintendent, Ms. Smitha K.,

Instructor, CED, MS. Ashlidas Padmanabhan (S4 EEED), Mr. Chandratejas K. K. (S6 MED) as members.

3.7.5 Committee for SC/ST- Prevention of Atrocities

The present Committee for SC/ST (Prevention of Atrocities) of the college is constituted with Prof. Ramesh V R., ASD as Chairman, Prof. Manoj Kumar P., ASD, Prof. Nishil Kumar., ECED, Prof. Rajeev K. K., CSED and Smt. Sindhu V., Senior Superintendent as members.

3.7.6 Students Development & HR Cell

The present Committee for Students Development & HR Cell of the college has constituted with Dr. VandanaSreedharan., CED as Chairman, Dr. AbdulNazar, MED, Prof. Muhammed Ramees, EEED, Dr. Toby Joseph, ASD, Prof. Jose M J., MED, Dr. Annie Sabitha Paul, MD, Prof. Sheeba K.K., ECD, Prof. Sakhi S Anand, CSED

3.7.7 Students welfare Committee

Students welfare committee has constituted with Prof. Asokan O.V., EEED as chairman and Dr. Vinod Kumar, HOD ECED, Prof. Nishanth K., MED, Prof. Dhanya Raveendran, CED and Dr. Anjali Anand, EEED as members.

3.7.8 Grievance and Appeal Committee

A committee has been constituted to redress the complaints of the students of the college regarding the inconveniences met by them. The committee will take up matters and find solutions to the problems and issues raised by the students for the smooth functioning of the college. The present Grievance Committee of the college has constituted with Dr. Sooraj P., MED, as Chairman and Dr. Bindu P V., CSED, Dr. Vinod Kumar V., HOD, ECED as members.

3.8 CONFERENCES

3.8.1 International Conference on Systems, Energy and Environment

The International Conference on Systems, Energy and Environment (ICSEE2021) is the seventh edition of the conference ICSEE, and the fourth one at the international level, The objective is to provide a common platform for engineers, researchers and technologists to exchange technical, scientific and experimental ideas for sustainable development at the global level. The conference covers all the major disciplines in the field of science and engineering. The conference offers an opportunity for technological people to share their novel thoughts related to current and future technologies and hence provides an excellent opportunity for interaction, discussion and dissemination of the latest research and developments in various areas of interest.

The ICSEE is organized by Government College of Engineering Kannur which has been a premier

institution for imparting quality engineering education in northern Kerala (God's own country) since its establishment in 1986. ICSEE2021 is organized by the Department of Civil Engineering, Government College of Engineering Kannur.

ICSEE2021 was conducted in a fully online mode. This Year ICSEE 2022 is being organized by Mechanical Department.

3.8.2 Power Electronics and Renewable Energy Applications (PEREA)

This conference is a step to encourage various professionals for colonizing the relevant topics in Power Electronics and Renewable Energy Applications. The participants from academia, industry and research organizations come closer through presentation sessions, keynote lectures and exhibitions. The conference will be an opportunity to discuss the developments in the signal processing, electronic systems and soft computing which enhanced the ability of Power electronics system for various applications. The applications include FACTS, HVDC, Custom power devices, Electric vehicle, Industrial drives, Welding system and Renewable energy developments

3.8.3 National Conference on Systems, Energy & Environment (NCSEE)

The National Conference on Systems, Energy & Environment (NCSEE) is organized by Government College of Engineering Kannur, in a vision to provide a common platform for Engineers, Researchers & Technologists to present their ideas and views in the emerging areas of engineering and technology. The field of research included in this conference covers all the major disciplines in the field of Science and Engineering.

The objective of the conference is to provide an intellectual forum for professionals and students of different cultures to exchange and expose their research findings for the sustainable development of mankind. NCSEE offers a chance for technological people to share their novel thoughts related to current and future technologies and hence provides an excellent opportunity for interaction, discussion and dissemination of the latest research and development.

The NCSEE'14, the inaugural session is blessed with "The Metro Man", Dr. E. Sreedharan, former Managing Director of DMRC. It has held on Friday, the 1st & 2nd of August 2014. For the technical sessions, experts from NITs/IITs have delivered the keynote address. From the paper management side, it has been noted that NCSEE '14 gets overwhelming response from the research community, nationwide.

3.9 Technical Education Quality Improvement Programme (TEQIP II)

The Indian system of engineering education has become vast and so far around 3000 engineering institutions have been established throughout the country. The exponential growth in Technical Education has however not translated into any significant growth in the number of quality graduates due to restricted availability of qualified faculty and better teaching- learning and

training facilities. There is currently a huge gap between quality and quantity in Technical Education. The World Bank took keen interest in systemic transformation of country's technical education system to make it globally competitive and showed willingness to assist the Government of India to launch a Technical Education Quality Improvement Programme (TEQIP) as a long term programme of 10-12 years and in three phases.

The Ministry of Human Resource Development, Government of India through NPIU had competitively selected 127 institutions including 18 Central funded institutions, 68 State funded institutions, 22 private unaided institutions and 19 Polytechnics spread across 13 States of India to participate in the first phase of TEQIP during 2003-09. After the completion of TEQIP Phase-I, a study was carried out for evaluating the impact of the programme and learn lessons for TEQIP Phase-II. TEQIP Phase - II is aimed to upscale and support ongoing efforts of Government of India (GOI) in improving quality of technical education and enhance existing capabilities of the Institutions to become dynamic, demand driven, quality conscious, efficient, forward looking and responsive to rapid economic and technological developments occurring both at national and international levels. It has a clear focus on outcomes to improve the overall quality of existing engineering programmes.

Objectives:

1. Strengthening Institutions to produce high quality engineers for better employability,
2. Scaling-up PG education and demand-driven Research & Development and innovation,
3. Establishing Centres of Excellence for focused applicable research,
4. Training of faculty for effective Teaching, and
5. Enhancing Institutional and System Management effectiveness

Government of India, identified (30 December 2011) thirteen institutions in Kerala for TEQIP and Government Engineering College, Kannur is one of the institutions identified for the World Bank assistance. The MoU between Govt of Kerala and MHRD regarding implementation of TEQIP phase II had been signed on 18.11.2011. The TEQIP Phase has been completed 31-07-2017.

After the completion of TEQIP II four funds namely Equipment maintenance Fund, Equipment replacement Fund, Faculty Development Fund and Corpus Fund were made available to collage by the state government for ensuring the sustainability of TEQIP II initiatives. The period of utilization of four funds is five years commenced from 1st August 2017.

The following members constitute the TEQIP team in our college

TEQIP Coordinator	Dr. Kishore Kumar V. V., MED
TEQIP Nodal Officer, FSD	Dr. Sooraj P., MED
TEQIP Nodal Officer Student activities	Dr. Mahesh Kumar P., MED
TEQIP Nodal officer, Equipment replacement and maintenance	Dr. Shahin M., EEED
TEQIP Nodal officer, Finance	Dr. Rajeevan B., CED

3.10 All India Survey on Higher Education (AISHE)

AISHE was initiated in 2011 during which data for the year 2010-11 was collected. All the major Stakeholders in Higher Education such as University Grants Commissions, All India Council for Technical Education, Medical Council of India as well as State Governments participate in the data collection exercise.

Data is collected on several parameters such as teachers, student enrollment, programmes, examination results, education finance, infrastructure, etc. Indicators of educational development such as Gross Enrolment Ratio, Pupil Teacher Ratio, Gender Parity Index, etc. are calculated from the data collected through AISHE. These are useful in making informed policy decisions and research for development of education sector.

College Co-ordinator	Pro. Jose M. J., AP, MED
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3.11 Centre for Continuing Education

A sub centre of the Centre for Continuing Educations Kerala is established in the college. It is acting as an agency through which the expert knowledge stock of the institution is disseminated to the society. Various government and private establishments are approaching the institute for Engineering consultancy and testing. The consultancy works are carried out by the respective expert among the faculty. The testing facilities in the laboratories in the five departments are also utilized. These activities are co-ordinated by the Centre for continuing education. A sizable quantity of fund is generated from these, for the institution and government. The centre is also conducting workshops and vocational training programs for the general youth and students outside the campus.

An institution programme implementation units (IPIU) headed by the Principal, consisting of heads of departments and a manager selected from among the faculty is looking after the activities of the centre.

CCE MANAGER	Dr. Rajeevan B. Associate Professor, CED
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3.12 Associations

3.12.1 Alumni Association CEAAK

The College of Engineering Alumni Association, Kannur (CEAAK) is operating in the campus. Its primary objective is to foster and develop fraternity, unity among all teaching staff, retired/ former teachers and alumni of this institution. It has various chapters operating from India and abroad. In addition to the continuous interaction through the internet, the members meet every year in the campus to interact, discuss and evolve future programmes. It has a charitable fund, which caters to needy students.

GCEK Alumni Office Bearers

Position	Name	Contact No.
President	Dr. V. O. Rejini Principal	9400006415
Vice President	Mr. Jyothindranath	9447689986
General Secretary	Prof. Priyak N K AP, MED	9495744282
Treasurer	Dr. Rajesh M Assoc. Prof., EEED	9447690156
Jt. Secretary	Ms. Mini P K	9447690156

Executive committee members

Name	Contact
Mr. Anil Kumar	9447634284
Mr. Balakrishnan T. V.	9961945566
Mr. Madhukumar	9447774245
Mr. Haneesh	9446675757
Mr. Krishnakumar	9447646379
Mr. Anoop P. K.	9995841140
Mr. Prakash Babu	8907050500
Ms. Preeja	8078010849
Mr. Sahajan	9446679849
Mr. Sajith P.	9447217765
Mr. Sumesh	9446017889
Mr. Vinod Pottakulam	8289890377
Mr. Sooraj Kumar V.	9349934844
Mr. Sandeep	9447755455
HOD's of all five departments	GCEK

3.12.2 Staff Club

Teaching Staff, Technical Staff and Administrative Staff have their own clubs to promote intimacy

between the employees and for entertainment activities. These clubs promote charity works and also conduct seminars and talks.

On the occasion of festivals like Onam and New Year combined celebration are performed. Also at the time of transfer and retirements of employees a common farewell party also will be arranged.

The clubs are keen in improving the health of the employees, both physical and mental. All employees are members of the respective clubs.

Teaching staff	President	Dr. Rajesh K. N. Associate Professor, CED
	Secretary	Prof. Bincy Antony M. Assistant Professor., CSED
	Treasurer	Prof. Asjad Nabeel P. Assistant Professor., CSED
Technical Staff	President	Mr. Ramachandran M. C.
	Secretary	Mr. Sreejith P.
	Treasurer	Mr. Manoj T. P.
Ministerial Staff	President	Mr. Shiji T. P.
	Secretary	Mr. Mohanan K. P.
	Treasurer	Mr. Santhosh C. C.

3.12.3 Parent Teacher Association

The Parent Teacher Association of the college is well established and has been providing remarkable support to the activities of the institution. The main objectives of the association are: - To foster and promote open communication and understanding among the faculty, students and parents. -To work for the welfare of the students and the institution, and to offer constructive suggestions for the smooth successful functioning of the institution. The PTA takes an active role in the development of infrastructure and other facilities of the college. One major work now being undertaken by the association is the procurement of a new College bus as an attempt to alleviate the travel problem of students.

Executive Committee Members

Executive President	Dr. V. O. Rejini Principal GCEK	9400006415
President	Mr. Lakshmanan K.	9495803347
Secretary	Prof. Sukesh A. AP, EEED	9495241299
Joint Secretary cum Treasurer	Prof. Narayanan N I. AP, CED	9447238423

Executive committee members

SI NO.	Name	Mobile No.	Student Name & Relation	Current sem & dept.
1	Shri Lakshmanan K.	9495803347	Aswathy K. (Father)	S6 CE
2	Smt. Reshmi K. M.	8590647745	Gokul Santhosh (Mother)	S2 CE
3	Smt. Minimol K. V.	9400861941	Anju R. K. (Mother)	S4 EC A
4	Mr. Haridarshan K.	9744673180	Athul K. (Father)	S2 EC A
5	Mr. Ganeshan K.	9446411476	Akshaya Ganeshan (Father)	S6 EC B
6	Mr. Mohanan P. P.	9744609553	Abhinav P. P. (Father)	S4 ME
7	Mr. Rajedran M. T.	9495461568	Kamala R. (Father)	S2 ME
8	Mr. Vinod K. R.	9961300202	Sanika P. (Father)	S4 CSE
9	Shri, Babu T.	9446062397	Amrutha Babu (Father)	S2 CSE
10	Mr. Damodharan M. E.	9447546948	Haritha M. E. (Father)	S4 EEE
11	Shri Regunath K.	9447488710	Anand (Father)	S2 EEE

3.12.4 Green Team

This is a non voluntary organization functioning among students, teaching and non teaching community of the Department of Civil Engineering and has smaller sub groups which are designated as, Regulators, Green warriors, Blue warriors and Recyclers.

The activities of the team focuses on the major environmental issues in the college and this includes energy auditing and regulation, solid waste disposal monitoring , increasing the green cover, conserving the biodiversity, auditing the use of water , initiatives for paper recycling , collection of recyclable materials , disposal of wastes from labs, help the needy - book drive and village adoption. The team observed the "Biodiversity day" and conducted a social forestry program on the occasion of world "Environment day". The team meets every two weeks in the department of civil engineering and is presently working in association with the Civil Engineering Association of the college.

Committee members

Chairman	Dr. V. O. Rejini, Principal
Conveners	Mr. Sreejith P.S., MED
Conveners	Mr. Sunil K., CCF

3.12.5 CEA

The Civil Engineering Association organizes and coordinates different programmes for the benefits of the student community. The programmes include technical workshops, expert talks and interaction with industry experts, exhibitions and field visits. Presently Prof. Manu P Raj, Assistant Professor is the faculty in-charge of the association.

3.12.6 MEA

The Mechanical Engineering Association organizes and coordinates different programmes for the benefits of the student community. The programmes include technical workshops, expert talks, and interaction with industry experts, exhibitions and field visits. Presently Dr. Govinadan P., Assistant Professor is the faculty in-charge of the association.

3.12.7 EEEA

The Electrical and Electronics Engineering Association organizes and coordinates different programmes for the benefits of the student community. The programmes include technical workshops, expert talks and interaction with industry experts, exhibitions and field visits. Presently Prof. Asokan O. V., Assistant Professor is the faculty in-charge of the association.

3.12.8 ECEA

The Electronics and Communication Engineering Association organizes and coordinates different programmes for the benefits of the student community. The programmes include technical workshops, expert talks and interaction with industry experts, exhibitions and field visits. Presently Prof. Sajeev K. Jose., Assistant Professor is the faculty in-charge of the association.

3.12.9 CSEA

The Association of Computer Science and Engineering, is one of the most active Associations in the institution, conducting the largest number of Association-Level Activities yearly. The Association maintains a wall Magazine - THREADS, updating the latest trends and other CSE related articles.

The Association also has a team which provides their services to other Departments and the College, for any technical help including websites, and software. The Association also conducts monthly Coding Competition to improve the programming skills of the students. Presently Prof. Rajeev K. K., Assistant Professor is the faculty in-charge of the association.

3.13 Virtual Facilities

3.13.1 Online Examination Facility

The College is equipped with unmatched computational facilities spread across various departments. A strong backbone of networked computers the college possesses has won good appreciation from all quarters. Due to the good facilities available, the college has been recognized as an authorized test centre for competitive examinations like GATE and also for recruitments to banks, railway recruitment boards and many more. As on date, no other college in Kerala in the Government/Aided sector conducts such examinations. At this point of the time, the college can host about 350 candidates in a single shift. In addition to earning income for the college, the conduct of such examinations forms an ideal platform for good public interactions. The Center Head for the online examination activity is Dr. Sukesh A., EEED

3.13.2 Engineering Educational Resource Centre (EERC)

The Engineering Educational Resource Centre (EERC) is a “knowledge hub”, designed to encourage the sharing and creation of resources by bringing together existing resources and services with use of technologically advanced tools. An engineering educational resource centre (EERC) brings learning to people, instead of people to learning. The centre aims to facilitate acquisition and dissemination of information and knowledge in all branches of engineering among the academic community, to meet the information needs of faculty and students.

3.13.3 Online Library Facility

GCEK has facility to browse online journals and magazines by IEEE, ACM, Elsevier, Springer etc. The subscription to these journals are renewed yearly so that UG, PG and PhD students can access them without any interruption.

OPAC : Online public access catalogue (for searching the details of book)

3.13.4 Language Laboratory

In addition to the modern seminar hall and interview rooms, the college has also set up a dedicated language laboratory for improving the communication skills of students. The facility which can accommodate 30 students in one batch is housed in a separate room. The facility includes a network of 30 high end computers with Intel i7 processors, web-camera and good quality head phones. The air-conditioned room is provided with 10KVA UPS backup, smart boards and sound bars. The Orell Digital Language Software which integrates the functioning of the laboratory facilitates listening, speaking, reading, writing and group discussions.

This facility is currently being used by our students extensively outside class hours. The in charge for this laboratory is Dr. Sooraj P, Associate Professor, Mechanical Engg. Department and which is

3.14 AMENITIES

3.14.1 Gathering Halls

College has 2 open air auditoriums with a seating capacity of about 1000-1500. In addition to this there is a community auditorium with a seating capacity of 1200 in which all the academic, professional and cultural gatherings are held. Main blocks also has a separate conference hall aiming the administrative purposes. Departmental blocks have their own seminar halls. All seminar halls are equipped with latest technology based audio-visual systems, excellent furniture and equipment.

3.14.2 Sports Facilities

GCEK believes in poised personalities and that is why we have been provided with best sports facilities. This sector includes facilities and playgrounds for sport events viz cricket, football, volleyball, basketball, and also indoor games like shuttle badminton, table tennis, caroms and chess. Students can use the multi functional gym for caring for their health and fitness. Main ground is also the venue for the track and field events of annual sports.

3.14.3 Transport

The college provides bus facilities to students and staff. At present the college has ten buses, Eight from the Govt. and two sponsored by PTA. Out of this ten busses, three bus has added in last year by Government fund. They operate from Kannur and Payyanur to the college. The day to day administrative matters pertaining to the bus are generally seen by the bus secretary. There is a bus committee constituted by the Principal to decide the matters related to the timings, routes, charges etc.

3.14.4 Co-Operative Store

A students co-operative society, named the Government College of Engineering Students Co-operative Stores Ltd. (No. C1020), Kannur has been functioning in the college for supplying books, stationery and educational accessories to the students and the staff of the college. Discount is allowed for most of the items.

3.14.5 Canteen

The college canteen is run on a co-operative basis from 1995 onwards, with the active involvement of students and staff. A canteen is functioning in the college campus under the supervision of college canteen committee with the Principal as chairman and all heads of departments,

representative from administrative wing and college union. Canteen Proprietor is Mr. Krishnan, Ph No. 7736473482.

3.14.5 Staff Accommodation

The college provides family accommodation for the staff members in the staff quarters. The college is having family quarters with 12 type III, 18 type II for teaching faculties and 16 type IV quarters for NGOs. Bachelor accommodations are provided for teaching and non- teaching staffs inside the campus. A Guest house is also available inside the campus.

3.14.6 ATM Cash Point

An ATM counter of Union Bank is functioning 24 hours inside the campus.

4 Kerala Technological University Ordinance

4.1 BTech Scheme 2019

The A. P. J. Abdul Kalam Technological University Academic Regulations for BTech, 2019

This may be called the A. P. J. Abdul Kalam Technological University Academic Regulations for BTech, 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.

4.1.1 Preamble

- 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.

4.1.2 Admission

- 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

4.1.3 Structure of BTech Program

- R3.1 The duration of the BTech 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 "1st July to 31st December (Odd semester)" and "1st January to 30th 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 BTech 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.

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.

R3.7 Every course of B. Tech. Program shall be placed in one of the nine categories as listed in table below.

Sl. No.	Category	Code	Breakup of Credits
1	Humanities and Social Sciences including Management courses	HSMC	8
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	76
5	Open subjects - Electives from other technical and/or emerging subjects ` as specified in the curriculum concerned.	OEC	15
6	Project work, seminar and internship in industry or elsewhere	PROJ	03
7	Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	MC	Non credit
8	Mandatory Student Activities (Pass/Fail)	SA	10
		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.

4.1.4 Academic Monitoring and Student Support.

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 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:

1. Immediately after the commencement of the semester.
2. Immediately after announcing the marks of first internal evaluation test.

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.

R4.5 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.

- R4.6 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.
- R4.7 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.
- R4.8 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.
- R4.9 It shall be the official responsibility of the Principal to arrange necessary orientation programmes to the HoDs, SFAs and SAs regarding student counseling, the prevailing University norms, regulations, guidelines and procedures on all academic and other University related matters.

4.1.5 Academic Auditing of affiliated institutions

- R5.1 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.

Academic auditing shall cover:

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.
 2. Co-curricular and Extra-curricular activities available for students, the monitoring mechanism of activity points to be earned by the students.
 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.
- The audit shall also cover the quality criteria prescribed by NBA/NAAC.

4.1.6 Assessment

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 genuine grounds. Three days shall be utilised for conducting the internal evaluation test.

- | |
|---|
| <ol style="list-style-type: none"> 1. Work assessed by the project guide – 30% 2. Three member Continuous Internal Evaluation Committee – 40% (Guide shall be one member in the CIE committee) |
|---|

Project work	<p>3. 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>4. One third of the project credit shall be completed in VII semester and two third in VIII semester.</p>
Seminar	<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>1. Attendance : 10%</p> <p>2. Guide : 20%</p> <p>3. Technical content : 30%</p> <p>4. 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:
1. Fulfilled all the curriculum requirements within the stipulated duration of the course.
 2. Earned the required minimum credits as specified in the curriculum for the branch of study (R3.6 and R3.7).
 3. No pending disciplinary action.
- 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 Grade and Grade Points

Grades	Grade Point (GP)	% of Total Marks obtained in the course
S	10	90% and above
A+	9	85% and above but less than 90%
A	8.5	80% and above but less than 85%
B+	8	75% and above but less than 80%
B	7.5	70% and above but less than 75%
C +	7	65% and above but less than 70%
C	6.5	60% and above but less than 65%
D	6	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 BTech Degree.	First Class with Distinction	CGPA 8.0 and above
	First Class	CGPA 6.5 and above
Equivalent percentage mark shall be = $10 * \text{CGPA} - 2.5$		

R6.17 Minimum Cumulative Credit Requirements for Registering to Higher Semesters

Semester	Allotted Credits	Cumulative Credits	Minimum Cumulative Credits required for BTech	Minimum Cumulative Credits required for BTech Lateral Entry.
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	105	21 Credits from S1& S2	Not Insisted
Sixth	24	129	Not Insisted	Not Insisted
Seventh	15	144	47 Credits from S1 to S4	09 Credits from S3 to S4
Eighth	16	160	Not Insisted	Not Insisted

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.

R6.19 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.

R6.20 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.

R6.21 Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

$SGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$, where 'C_i' is the credit assigned for a course and 'GP_i' 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.

$CGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$, where 'C_i' is the credit assigned for a course and 'GP_i' is the grade point for that course. Summation is done for all courses specified in the curriculum up to that semester for which the 'CGPA' is needed. Here the failed courses shall also be accounted.

CGPA for the BTech programme is arrived at by considering all course credits that are needed for the degree and their respective grade points.

For students admitted under lateral entry scheme, credits for the first and second semester courses shall not be accounted for the calculation of CGPA.

Equivalent percentage mark shall be = $10 * CGPA - 2.5$

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.

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.

4.1.7 Break of Study

A student is permitted to avail break of study:

- i) In case of accident or serious illness needing prolonged hospitalization and rest.
- ii) In case the student has a bright idea and would like to initiate a start-up venture or develop a product.
- iii) In case of any personal reasons that need a break in study.
- iv) For internship leading to employment.

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.

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 4th 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.

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.

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.

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.

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.

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.

4.1.8 Attendance

R8.1 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.

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.

In case of prolonged illness, break of study is permitted as per R7.1.

R8.2 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.

- R8.3 The Principals are authorized to grant attendance relaxation (duty leave) to the students for organizing 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.

4.1.9 Inter College Transfer

- 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 The following Category of students shall not be eligible for inter college transfer
1. Govt. of India Nominee.
 2. Management Quota in Aided colleges.
 3. Management Quota in private Self Financing Colleges
 4. Students admitted under NRI/PIO quota.
 5. Lateral Entry students.
 6. Students admitted under TFW Scheme.
 7. Students admitted in any supernumerary seats.

Any other category which are ineligible as per the conditions for admission prescribed by Govt. of Kerala/Govt. of India.

- R9.6 The transfer shall be permitted:
1. Between Govt/ Govt. Aided Colleges.
 2. Between Self - Financing Colleges. (Including Govt. Controlled SFC).
- 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.

4.1.10 Migration from other Universities

- 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 10th 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.

4.1.11 Minor in Engineering

- 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 3rd semester.
- R11.3 If a student fails in any course of the minor, he/she shall not be eligible to continue the BTech 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 three 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 three 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.

4.1.12 BTech (Honours)

- R12.1 All B. Tech students are eligible to register BTech (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 4th 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 BTech (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 BTech (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.

4.1.13 Grace Marks for Sports /Arts Competitions

- 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.
- R13.9 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 1st July to 31st December (Odd semester) and 1st January to 30th 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.

4.1.14 Grace Marks for Persons with Disability (PWD)

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.

4.1.15 Transitory provision

R15.1 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.

4.2 BTech Scheme 2015

4.2.1 Admission to Bachelor of Technology / BTech / BTech (Honours)

1. Eligibility for admission to the BTech., programme, admission policy and procedure shall be decided from time to time by following the guidelines issued by the Government of Kerala and the Government of India and other statutory body such as AICTE.
2. Subject to Clause 1(a), Admission to BTech., shall be based on the guidelines given by the State and Central Governments on reservation. Candidates for admission to BTech, programme shall have passed the Higher Secondary Examination, Kerala or 12th Standard V.H.S.E., C.B.S.E., I.S.C or any other examination considered equivalent to the above mentioned ones. Other eligibility criteria for admission is currently prescribed by the Government of Kerala through Government orders which is based on the entrance examination conducted by the Commission for Entrance Examinations, Government of Kerala and the marks in the qualifying examination subject to the relaxations allowed for backward classes and other communities as specified from time to time.
3. The Branches of study and number of students admitted are to be based on the approval by the All India Council for Technical Education and the Kerala Technological University.
4. Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to conform to directions from the Government of Kerala and the Government of India.

The BTech, / BTech (Honours) programme is a credit-based programme. The duration of the BTech / BTech (Honours) programme will normally be four academic years spanning 8 semesters. The maximum duration shall be six academic years spanning 12 semesters.

4.2.2 Examination

1. At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. Supplementary examinations shall be conducted before the commencement of the next semester, for students who are eligible and have registered for them.
2. Students, who have completed a course but could not write the end semester examination for valid reasons like illness or personal exigencies, are allowed to write the supplementary

- examination or the end semester examination at the next opportunity and earn the credits without having to register for the course again provided they meet other eligibility criteria.
3. The main eligibility criteria for the end semester examination are attendance in the course, internal marks and no pending disciplinary action. The minimum attendance for appearing for the end semester examination is 75% in each course. Further, the internal evaluation marks in the course should be 45% or above. Students who do not meet these eligibility criteria are awarded an FE grade and have to register for the course again.
 4. Students who could not write the end semester examination due to health reasons or other exigencies can register for the supplementary examination, with the approval of the principal provided they have 45% or above marks in the internal evaluations for the course. Candidates who received F grade can also write the supplementary examination. Grades awarded in the supplementary examination will be taken as the end semester grades in these courses.

4.2.3 Eligibility for Award of Degree

The award of B. Tech. / BTech (Honours) degree shall be based on the recommendation of the Academic Committee and the approval of the Board of Governors and in accordance with the academic regulations, if any, issued for the said purpose by the University.

Award of BTech Degree

A student will be eligible for the award of BTech Degree of the University on satisfying the following requirements.

1. Earned credits for all the core courses and the Project.
2. Earned the required minimum credits as specified in the curriculum for the branch of study.
3. No pending disciplinary action.

4.2.4 Fee charged by the University

Fee charged for the programme shall be decided by the University from time to time and informed to all concerned for compliance.

4.2.5 Discipline of the student – Action against breach of discipline

Every college shall have a Student's Welfare Committee and a Disciplinary Action Committee, constituted by the Principal of the college. Each college should have a Grievance Redressal and Appeals Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. Details on the constitution and terms of reference are outlined in 7-x, 7-y, and 7-z.

4.2.6 Breach of guidelines and unfair practices in Examinations

These are viewed seriously and appropriate actions are to be taken by the colleges as detailed in 7-x.

4.2.7 Miscellaneous Provision

1. Language of Instruction and Examination.

Unless otherwise stated, the language of instruction and examinations shall be English.

2. Academic Calendar.

The University shall publish in its website the academic calendar for every academic semester indicating the commencement of the semester and beginning of instruction. It will specify the course registration and enrolment dates, the schedule for mandatory internal tests for theory courses, dates by which laboratory/practical evaluations are to be completed, date for finalization of internal marks, last instruction day in the semester, planned schedule of end semester examinations and result declaration as well as approved holidays falling within the semester. Schedules for the supplementary examinations and result declaration dates are to be included in the calendar. Summer course schedule and result declaration have also to be indicated in the calendar. Additionally colleges may publish their academic calendar, in line with the University academic calendar, indicating other schedules and events they plan to conduct during the semester.

3. Branches of BTech Programmes.

The Branches of BTech /BTech (Honours) programme offered by the University are listed separately at the end of this Ordinance

4. BTech Programme Structure

1. BTech / BTech (Honours) programme in all branches of study is structured on a credit based system following the semester pattern with continuous evaluation allowing flexibility for students to decide on the duration of programme completion.
2. The duration for the BTech /BTech (Honours) programme in all branches of study, will normally be 8 semesters.
3. The maximum duration shall be six academic years spanning 12 semesters.
4. Each semester shall have 72 instructional days, followed by end semester examinations.
5. A student can opt for BTech (Honours) at the end of the fourth semester.
6. The curriculum of any branch of the BTech programme is designed to have a minimum of **180** academic credits and 2 additional pass/fail credits, for the award of the degree.
7. The University follows Credit System and Credits are apportioned among the following knowledge segments.

BTech Programme

Knowledge Segments	Credits
Basic Sciences	10 [8 Theory+ 2 Labs]
Mathematics	16
Humanities	9
Basic Engineering	29 [25 Theory +4 Labs]
Professional Engineering	89 [80 Theory +9 Labs]
Electives	15
Seminar	2
Comprehensive Viva	2
Design Project	2
Project	6
Total Academic Credits:	180
Student's Activities	2 [Audit-Pass/Fail]
Total credits for B.Tech. Degree	182

Credits are assigned to courses based on the following general pattern.

1. One credit for each lecture hour per week for one semester One credit for each tutorial hour per week for one semester
2. One credit for each laboratory/ practical session of 2 or 3 hrs, per week for one semester
3. In a semester normally up to six lecture based courses and three laboratory/practical courses, carrying a maximum credit of 26, could be offered.
4. University may allow students to transfer credits they have earned at other Universities and Academic Institutions, as per the guidelines given by the Academic Committee and approved by the Board of Governors.

Student Activities Points :

To be an engineer capable of competing globally, in addition to technical knowledge and skills, students should develop excellent soft skills, nurture team work and leadership qualities and have an entrepreneurial and trail blazing outlook. To achieve this, in addition to academics, students are to actively engage in co-curricular and extra- curricular activities. For such activities, points are allotted. On getting a minimum of 100 activity points the student passes the course and earns 2 credits which do not count for the CGPA but mandatory for the award of the degree. Listing of these activities and the maximum points that could be earned by engaging in them are given at the end of this document. Additional activities could be included in the list with the approval of the Academic Committee.

A. Curriculum, List of Courses and Syllabi

1. Every branch of study in the BTech, programme will have a curriculum, list of courses, syllabi and course plans approved by the Academic Committee of the University.
2. Courses are categorized as Core Theory (CT), Core Practice (CP) and Electives (EL).
3. Each course has a course number. Course number includes the offering department or knowledge segment code and a three digit number. Knowledge segment code is used when a course is offered by any one or more departments with the same course content and syllabus. Details on this are given under Rule, RU-1.

B. Faculty Advisor/Counsellor

All students shall have faculty advisors whose role will be:- To guide and help students on academics

To monitor their progress in academics and advise them To counsel them and hand-hold them in any difficulty

C. Course Registration and Enrolment

It is mandatory for students to register for the courses they want to attend in a semester. Students admitted freshly to the first semester, are advised to register for all courses listed for the semester. However they do not have to enroll for the semester. All other students are required to register at the end of the semester for the courses they desire to take in the coming semester. They have to enroll for these courses at the beginning of the new semester, based on the previous semester results. This allows them to make changes in the list of courses already registered for. Before enrolment, students should clear all dues including any fees to be paid and should not have any disciplinary issues pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment, allowed up to 7 working days from the stipulated date, will attract a late fee.

A student can withdraw from a course or substitute one already registered by another on valid reasons with the approval of the faculty advisor. However this has to be done within seven working days from the commencement of the semester.

The maximum number of credits a student can register in a semester is limited to 26.

D. Course Completion and Earning of Credits

Students registered and later enrolled for a course have to attend the course regularly and meet the attendance rules of the university [RU-2] and appear for all the internal evaluation procedures for the completion of the course. Credits for the course are earned only on getting a pass grade in the composite evaluation.

E. Core courses, Prerequisites and Electives

All courses listed in the curriculum, other than the electives, are core courses. Earning credits in

the core courses is mandatory for the BTech degree. For electives, failure to earn credits does not necessarily require repeating the course. Instead another approved elective is permitted as a replacement course by the faculty advisor concerned. For some courses there could be a prerequisite course completion requirement for registration.

F. Summer Courses

Students who could not earn the required minimum credits at the end of the second or fourth semester have two options to continue with the studies. They may register again for the courses, when they are offered in the next academic year. However, there is also a provision to run summer courses in failed courses for these students who may register and attend the course and write the final examination. This provision is only for students who have got 45% or more in the internal evaluation for the courses they attended in the regular semester.

Students should have 75% attendance in the summer course to write the examination.

For the final grading their internal evaluation marks obtained in the regular semester in which they had undergone the course shall be applicable. Summer courses are to be conducted for a minimum of 20 contact hours for each course. Summer courses are to be offered only at the end of the second and fourth semesters for the courses covered till that semester. They will be conducted either by all colleges or only by some, depending on the number of students registering for them. Details of summer courses planned will be announced by the colleges after the declaration of the even semester results. Final examination for summer courses will be conducted by the University. Based on the availability of faculty and the number of students opting for courses, it will be the prerogative of the colleges to decide on the summer courses to be offered.

Options for the fifth and higher semesters

For higher semesters, i.e., fifth semester onwards, summer courses are not offered. Failed students who have less than 45% marks in internal assessments have to register again for the course in the regular semester in which it is offered and complete the course as per the regulations and appear for the end semester examination. Failed students having 45% marks or more in internal assessments have the option to register again for the course as mentioned above or register only for the end semester examination without attending the course again. A separate registration format will be available for this. This option is available in all semesters.

G. Contact Courses

If a student has to earn credits only just for one course to qualify for the degree after completing eight semesters of study, the college concerned may offer a contact course on a written request by the student. The contact course is considered as fresh registration and is to be offered by the teacher concerned who shall conduct the internal evaluation procedures and allot the marks as per the regulations. Minimum contact hours for the course shall be 20. The final examination will be

conducted by the college and shall be monitored by the external academic auditor. Question paper for the examination will be given by the Controller of Examination. No grade above C shall be given for a contact course.

H. Academic Assessment/Evaluation

Academic Evaluation of Courses

University follows a continuous academic evaluation procedure.

Academic evaluation procedure and corresponding weights are as follows:

i. For theory courses: - 1/3rd weightage for internal evaluation and 2/3rd for end semester examination.

b. For convenience, the maximum marks for internal evaluation and end semester examination for theory courses are fixed as 50 and 100 respectively.

c. Scheme of evaluation is as follows.

- i. Two internal tests each of 20 marks and of one hour duration. (Internally by the College)
- ii. Tutorials/Assignments/Mini Projects carrying 10 marks. (Internally by the College)
- iii. End Semester examination carrying 100 marks. (Conducted by the University)
- iv. All the above evaluations are mandatory requirements to earn credits.

d. Students who have missed either the first or the second test can register with the consent of the faculty and the Head of the Department (HOD) concerned for a re- test which shall be conducted soon after the completion of the second test, but before the end semester examination. The re-test will cover both first and second test course plans. Those who have missed both the tests are not eligible to appear for the end semester examination.

e. However if one misses both tests due to medical reasons or other personal exigencies, based on genuine evidence, a single test of 2 hour duration for 40 marks will be conducted covering the whole syllabus, before the end semester examinations. Decision on this will be taken by the Principal and verified by the external academic auditor.

1. For Laboratory /Practical /Workshop courses

- i. Practical records /Outputs: 60 marks (Internally by the College)
- ii. Regular class Viva: 10 marks (Internally by the College)
- iii. Final written test/quiz: 30 marks (Internally by the College)
- iv. All the above assessments are mandatory to earn credits. If not, the student has to complete the course/assessments during his free time in consultation with the faculty members. On completion of these, grades will be assigned. In case the Practical /Laboratory/Workshop courses are not completed in the semester, grade I (incomplete) will be awarded against the course and the final grade will be given only after the completion of the course/assessments.

2. Comprehensive Examination

As students appear for placements from seventh semester onwards, comprehensive examination is to be completed in the sixth semester. This examination will be a written cum oral examination covering broadly all courses so far completed [RU-5].

3. Seminar

Each student has to give a seminar on a professional topic of current interest in consultation with the faculty member in charge of the seminar in the Department. The seminar will be evaluated based on RU-6

4. Design Project

Each student or a group of students has to take up a design project. The project topic could be arrived at in consultation with any faculty member in the department. The Evaluation of the project is to be done in two stages. Two project progress evaluations each carrying 20 marks and a final report evaluation and presentation of the project for 60 marks. The project supervisor and two other faculty members from the same or any other department, nominated by the Head of the Department form the evaluation board.

5. Final Semester Project

Students, either individually or in a small batch not exceeding four, have to do a project approved by their faculty supervisor.

Evaluation scheme is given below :

- i. Two progress assessments : 20% by the faculty supervisor/s
- ii. Final Project Report : 30% by the Assessment Board
- iii. Project presentation and Viva : 50% by the Assessment Board

If the project work is not completed satisfactorily, the student has to put in more work and appear again for assessment on a specified date, not earlier than one month after the first evaluation. If the student fails in the project, a fresh registration for the project for one semester is mandatory.

The project assessment board shall consist of the following members.

Chairman: Head of the Department

Members: Project supervisor/s of the student

One faculty member from the Department One faculty member from a sister Department

An external expert, either from an academic/research institute or industry

I Eligibility to Continue

A student has to earn a minimum number of credits in a semester to be eligible to register for the new courses offered in the next semester. In odd semesters if this requirement is not met, the student is to be forewarned and allowed to continue to the next even semester. However at the end of even semesters this requirement will be strictly implemented. Summer courses are offered to

those who do not satisfy this norm after the 2nd as well as the 4th semesters. Students who do not meet this requirement are not permitted to register for new courses in the higher semesters. They have to register for the failed courses in normal semesters in which they are offered subject to the limitations imposed by the ordinances and course timetable.

Action plan, for dealing with course arrears in theory courses at the end of each semester to continue with the programme, is given below. Faculty advisors shall monitor advice and support the students in this. Students should be informed about the minimum cumulative credits requirement to register for higher semester courses.

Eligibility Criteria for Registering for Higher Semester Courses

Semester	Allotted Credits	Cumulative Credits	Minimum Cumulative credits required to register for courses in higher
First	24	24	Not insisted
Second	23	47	35
Third	24	71	Not insisted
Fourth	23	94	80
Fifth	23	117	Not insisted
Sixth	23	140	126
Seventh	22	162	Not insisted
Eighth	18	180	

J Course Committees and Class Committees

These committees are to be in place in each college affiliated to the University.

a. Course Committee

This is for common courses (electives are excluded) offered to students admitted for the BTech programme irrespective of their branch of study. Each of such courses will have a course committee constituted by the Principal of the college.

The chairman of the course committee shall be a senior faculty member not offering the course.

Members :

All teachers offering the course :

- i. Four student representatives nominated by the Principal.

b. Class Committee

Beginning from the third semester, all branches of study will have class committees for every semester constituted by the respective Heads of Departments.

The chairman of the committee shall be a senior faculty member who does not offer any course during that semester.

Members :

- a. All faculty members teaching courses in that semester.
- b. Two student representatives nominated by the head of the Department.

The course committees and class committees shall meet at least thrice in a semester – the first at the beginning of the semester, the second and the third after the first and the second internal tests respectively. Both committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests, evaluation process and difficulties faced by the students and take suitable remedial actions at the appropriate time. At the end of the semester, the committee should meet without student representatives to review the conduct of the course and finalize the internal assessment marks and approve them.

K. Eligibility for writing the end semester examination and for grading

Students with 45% or more marks in internal assessment in a course shall only be permitted to write the end semester examination in that course. Those with less than 45% internal marks shall be awarded FE grade and have to register for the course again.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.

Internal marks given to the students who got 45% marks or more in the end semester examination shall be regulated in line with the end semester examination performance. Internal mark percentage shall not exceed 25% over the end semester mark %.

(For example if the end semester mark % is 45, then the maximum internal mark % is to be $45+25 = 70$ %.)

In case the student writes the supplementary examination, the mark got in that will be taken into consideration for regulating the internal marks.

Those who have more than 45% marks in the end semester examination are awarded the grade based on both internal assessment and end semester examination marks. A student earns credits for a course if the grade is P or above.

L. Award of Grades

Grading is based on the % marks obtained by the student in a course, as given in 7q. The grade card will only give the grades against the courses the student has registered.

Semester grade card will give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

M. Grades and Grade Points

Grades	Grade Point (GP)	% of Total Marks obtained in the course
O (Outstanding)	10	90% and above
A+ (Excellent)	9	85% and above but less than 90%
A (Very Good)	8	80% and above but less than 85%
B+ (Good)	7	70% and above but less than 80%
B (Above Average)	6	60% and above but less than 70%
C (Average)	5	50% and above but less than 60%
P (Pass)	4	45% and above but less than 50%
F (Fail)	0	Less than 45%
FE	0	Failed due to eligibility criteria [7-o]
I		Course Incomplete

SGPA and CGPA are calculated based on the above grading norms and are explained at the end of this document.

N. Academic Auditing

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the colleges and an external academic auditing for each college. The internal academic auditing cell in each college shall oversee and monitor all the academic activities including all internal evaluations and examinations. This cell is to prepare academic audit statements for each semester at regular intervals. These reports are to be presented to the external academic auditor approved by the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing shall cover :

- i. Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects and conduct of practical classes and their evaluation.
- ii. Co-curricular and Extra-curricular activities available for students, their organization and the mechanism of monitoring of activities points earned by the students.
- iii. Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic environment, academic accountability, academic achievements and benchmarking.

O. Break of Study

A student may break study for a maximum duration of two semesters, preferably in one academic year, to initiate start-up ventures, product development etc. This is however permitted only on successfully completing the courses listed out in the first four semesters. Request for this with ample evidence to the seriousness of the venture should be forwarded to the college principal for approval. [RU-3]

Break of study on serious health reasons is also permitted with the approval of the college Principal. [RU-3]

All such cases of break of study are to be reported to the University. In both the cases, the maximum duration for completing the B. Tech. programme will still be twelve semesters.

P. Revaluation and Grade Improvement

There is no provision for revaluation of the end semester answer books or for improving the grade. However, the student is permitted to check the answer books of the end semester examination after the results are declared. Any discrepancy in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this. The decision of the Controller of Examination shall be final on this.

Q. Grade Cards

Students who have written the end semester examination will be given the grade cards for the registered courses, in every semester by the respective colleges. On earning the required credits for the degree, a consolidated grade sheet for the B. Tech programme will be given by the University.

R. BTech Degree

BTech degree will not have any classifications like distinction or first class.

S. BTech (Honours)

Accredited departments in institutions, having at least two post graduate programmes, may offer BTech (Honours). It should be noted that students with a CGPA above 8 at the end of the fourth semester and having no credit arrears only are eligible for this option. As only selected institutions may have this provision, students cannot demand this or move later to an institute where this is available. Students have to earn 12 additional credits to get BTech (Honours). Furthermore their CGPA at the end of the programme should be 8 or higher. Those who opted for B. Tech (Honours) but unable to earn the required additional credits in 8 semesters or whose final CGPA is less than 8 shall automatically fall back to the B. Tech. programme. However, additional course credits and the grades thus far earned by them will be shown in the grade card but not included for the CGPA.

T. Academic Discipline and Malpractices in Examinations

Every student is required to observe discipline and decorous behaviour.

Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the **Disciplinary Action Committee (DAC)**. Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examinations shall be reported to the Principal who in turn shall refer it to DAC. On the basis of the report and evidence available or gathered, DAC shall immediately initiate an enquiry giving the concerned student a chance to explain his/her case. Based on this the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of

Examination of the University and forward it to the Principal for action.

Actions are to be based on the severity of the offence and are to be dealt with, on a course basis. Guidelines on this shall be given by the Controller of Examination which is to be followed by the Disciplinary Action Committee of the college.

The student may appeal to the Grievances and Appeals Committee for a relook on the matter. Based on the committee's report, the Principal shall take a final decision on the matter.

DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members. In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University

U. Student's Welfare Committee

Every college shall have a Student's Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

V. Grievances and Appeals Committee

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into student's grievances and appeals and give its recommendations to the Principal for action.

Amendment to Ordinance/ Regulations/Rules

Notwithstanding all that has been stated above, the University has the right to modify any of the above Ordinance/Rules/regulations from time to time.

RULES:

RU-1 Course Code and Course Number

Each course is identified by a course code and a three digit number. The two letter code refers to the department offering the course or the knowledge segment of the course. The knowledge segment code is used when the course is to be offered by different departments either individually or together but having the same syllabus and course plan.

Course Number: MA 101 - This refers to a course in Mathematics with the course number 101.

Course Number: BE 102 - This refers to a course in Basic Engineering.

Course Number is a three digit number and the first digit refers to the Academic year in which the course is normally offered, i.e. 1, 2, 3, or 4 for the

BTech Programme of four year duration. Of the other two digits, the last digit identifies whether the course is offered normally in the odd (odd number), even (even number) or in both the semesters (zero). The middle number could be any digit.

MA 101 is a course in Mathematics offered in the first semester.

EE 344 is a course in Electrical Engineering offered in the sixth semester. PH 110 is a course in Physics offered both the first and second semesters.

BE 102 is a course in Basic Engineering offered by one or many departments. These course numbers are to be given in the curriculum and syllabi.

RU-2 Attendance

Attendance is marked for each course. While 75% attendance is mandatory for writing the end semester examination in that course, students are expected to have 100% attendance. However under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extracurricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 25% of the academic contact hours for the course.

In case of long illness or major personal tragedies/contingencies 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 Auditor. However this concession is applicable only to any two semesters during the entire programme. In case of prolonged illness, break of study is permitted as per RU-3.

RU-3 Break of Study

A student is permitted to have a break of study.

- i) In case of accident or serious illness needing prolonged hospitalization and rest.
- ii) In case the student has a bright idea and would like to initiate a start-up venture or develop a new product.
- iii) In case of any personal reasons that need a break in study.

For break of study due to illness, student should 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.

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. In the semester system followed by the University, break of study for an academic year is preferred over a semester break.

Students who want 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.

RU-4 Leave of Absence

Students who want to take leave under RU2 have to submit a leave letter to the teacher conducting the course. This letter is to be forwarded to the Head of the Department with recommendation of the teacher indicating the total leave of absence the student has so far availed. Leave is to be sanctioned by the Head of the Department. For medical leave over three days, medical certificate indicating the need for leave is required. After any medical leave exceeding five instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

RU-5 Comprehensive Examination

This examination consists of two parts. Part one a written test and the other an oral one.

The written examination shall be objective type of 1 hour duration and shall have 50 marks and is to be conducted by the concerned department. Chairman of the oral examination board shall be a senior faculty in the department and the members include two other faculty members of the department and an external expert from another academic institute or an industry. Oral examination shall carry 50 marks. Comprehensive examination may be conducted any time during the 6th semester with sufficient notice given to the students.

RU-6 Seminar

Students have to prepare a detailed report on the topic of the seminar and submit it to the teacher concerned. The seminar is to be of 20 minutes duration with another 5 minutes given for questions and answers. All students in the class have to attend the seminar without fail. Evaluation will be based on the report, seminar presentation as well as on the ability of the student to answer the questions put forward. Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report: 30% Presentation: 40%

Ability to answer questions on the topic: 30%

RU-7 Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student

of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

Addendum:-

1. Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

$SGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$ where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student in the semester. Here the failed courses are also accounted.

$CGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$ where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student during all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given.

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.

2. Student Activity Points

Activities that a student can engage in and the maximum quantum of points that can be earned from them are listed below.

i) National Level Activities

Code	Name of activity	Max. Activity Points	Minimum Duration
NA1	N S O	70	Two Semesters
NA2	N C C	70	Two Semesters
NA3	N S S	70	70

ii) College Level Activities

CA1	Active Member/Office bearer of Professional Societies (Student Chapters)	30/40	Four Semesters
CA2	Elected Office bearer of Student forums	30	Two semesters
CA3	Member/Captain- College Athletic/ Games teams	20/30	Two Semesters
CA4	Executive Member of Student Clubs	20	Two Semesters
CA5	Volunteer for important College functions	20	Two Semesters
CA6	Committee member/ Organizer of Committee member/ Organizer of Conference	20/30	Two Semesters
CA7	Placed within top three in Paper presentation/debate/ cultural competitions etc	30	
CA8	Placed within top three in State level Sports/Games/	30	

Additional 20 points are given for CA3/CA7 if the achievement is at the national level

iii) Entrepreneurship

EA1	Any Creative Project execution	40
EA2	Awards for Projects	60
EA3	Initiation of Start-ups	60
EA4	Attracted Venture Capital	80
EA5	Filed a Patent	80
EA6	Completed Prototype Development	80

iv) Self Initiatives

SA1	Attend a National Conference	20
SA2	Attend an Int. National Conference	30
SA3	Published/got an award for technical paper	30/40
SA4	Organiser of student level	30
SA5	Technical Conf/Competition	50
SA6	Online courses taken& completed	50

4.2.8 Amendments in ordinance of 2015 scheme

Amendment ordinance no. 1

1. **Short Title and commencement:** This Ordinance is called Amendment to Ordinance for BTech/BTech (Hon) dated 26-6-2015 as Amendment Ordinance No.1 of 2016. This shall come into force with retrospective effect from 26-6-2015.

In **Clause 1(f)** the following is also to be added.

For lateral entry to BTech/BTech (Hons.) programme only diploma holders shall be admitted subject to other eligible conditions prescribed by the Govt. of Kerala from time to time.

Clause 2 (a) under the heading **Examination** shall be amended as follows:-

Clause 2(a) At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. Supplementary examinations shall be conducted after declaration of results, for students who are eligible and have registered for them.

Clause 7 (g) under the heading **Course Registration and Enrolment shall be amended as follows:**

Clause 7 (g) It is mandatory for students to register for the courses they want to attend in a semester. Students admitted freshly to the first semester, are advised to register for all courses listed for the semester. However they do not have to enroll for the semester. All other students are required to register and enroll for the courses they desire to take in the semester.

Clause 7(h) under the heading "**Course completion and Earning of Credits**", the following condition to be added

For students admitted under lateral entry scheme the credits for the first and second semesters

shall be given by credit transfer from the Diploma programme

Clause 7 (j) under the heading “ **Summer Course**”, the following condition to be added.

The summer courses shall be considered as independent course and students have to register for this course. This provision of summer courses may be extended to students who have got FE grade due to (i) shortage of attendance (ie. having attendance less than 75%) and (ii) shortage of internal evaluation marks (ie. having IA marks less than 45%) with the following conditions.

- a. The students shall have minimum 50% attendance in the specified course of the regular semester. They have to register for the summer course and obtain 75% attendance.
- b. The students shall have a minimum 35% IA marks in the regular semester. During the summer course the student will get a chance to improve the IA marks by writing one IA make up test during the summer course. This will replace the lower of the two marks got in the regular semester. However the IA marks shall be limited to 50%.
- c. Clause 7 (l)(b)(iii)

30 marks for final written test /quiz in the evaluation of laboratory /practical courses in 3 to 8 semesters shall be awarded by conducting one end semester internal practical examination.

Clause 7 (q) Grades and Grade Points is to be amended as follows instead of the UGC Grade Points:

Clause 7 (q) Grade and Grade Points

Grades and Grade Points followed by the University is as follows.

Grades	Grade Point (GP)	% of Total Marks obtained in the course
O (Outstanding)	10	90% and above
A+ (Excellent)	9	85% and above but less than 90%
A (Very Good)	8.5	80% and above but less than 85%
B+ (Good)	8	70% and above but less than 80%
B (Above Average)	7	60% and above but less than 70%
C (Average)	6	50% and above but less than 60%
P (Pass)	5	45% and above but less than 50%
F (Fail)	0	Less than 45%
FE	0	Failed due to eligibility criteria
I		Course Incomplete

Clause 7 (t) Under the heading **Revaluation and Grade Improvement** shall be amended as follows:-

Clause 7 (t) : There is no provision for improving the grade. 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 best 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 will be sent for third valuation. The final mark will then be the average of the closest 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 has inadvertently responsible for negligent valuation of answer script and recommend for suitable action.

Clause 7(v) under the heading BTech Degree, the following is to be added.

The grade card and degree certificate of students admitted under lateral entry scheme will indicate so.

Clause 7 (x) (Last paragraph) shall be amended as follows:

Clause 7(x) (Last Paragraph) : In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University. The Controller of Examinations shall refer the case to the Examination Monitoring Committee. The Controller of Examination will consider the same as a Review.

Amendment ordinance no. 2

1. **Short Title and commencement:** This Ordinance is called Amendment to Ordinance for BTech/BTech(Hon) dated 26-6-2015 and the 1st Amendment Ordinance as Amendment Ordinance No.2 of 2016. This shall come into force with immediate effect.

Clause 2 (a) under the heading **Examination** shall be amended as follows:-

Clause 2 (a) : At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. **Supplementary examinations shall be conducted during summer vacation after the even semester examination and before the commencement of the next odd semester, for students who are eligible and have registered for the same.**

Clause 7 (g) under the heading **Course Registration and Enrolment** shall be amended as follows:

Clause 7 (g) : It is mandatory for students to register for the courses they want to attend in a semester. Students admitted freshly to the first semester, are advised to register for all courses listed for the semester. However they do not have to enroll for the semester. All other students are required to register and enroll for the courses they desire to take in the coming semester. They have to enroll for these courses at the beginning of the new semester, based on the previous semester results. This allows them to make changes in the list of courses already registered for. Before enrolment, students should clear all dues including any fees to be paid and should not have any disciplinary issues pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment, allowed up to 7 working days from the stipulated date, will attract a late fee. A student can withdraw from a course or substitute one already registered by another on valid reasons with the approval of the faculty advisor. However this has

to be done within seven working days from the commencement of the semester. **The maximum number of credits a student can register for in a semester is limited to 28 instead of the 26.**

Clause 7(l) under the heading **Academic Assessment/Evaluation** will be amended and incorporated as follows:

Academic Evaluation of Courses

University follows a continuous academic evaluation procedure. Academic evaluation procedure and corresponding weights are as follows:-

a) For theory courses: -Normally 1/3rd weightage for internal evaluation and 2/3rd for end semester examination.

For convenience, the maximum marks for internal evaluation and end semester examination for theory courses are fixed as 50 and 100 respectively unless otherwise specified through internal circulars for any particular examination.

Clause 7(t) under the heading **Revaluation and Grade Improvement** shall be amended and incorporated as follows:

There is no provision for improving the grades. The student can apply for revaluation of the end semester examination after the results are published. The answer scripts already valued by two examiners will not be revalued again.

Clause 7(u) under the heading **Grade Cards** will be amended and incorporated as follows:

Students who have written the end semester examination will be given the grade cards for the registered courses, in every semester **by the University. On earning the required credits for the degree, the University will issue the final consolidated grade sheet for the BTech programme including CGPA.**

Amendments and incorporation under the Rules of the Ordinance adding additional clause:

RU: 8 Under the heading Courses to be offered to BTech (Honours) will be added as an additional Rule under the Ordinance:

RU : 8 . To earn 12 additional credits, the student has to take at least four courses of which two should be from the MTech specialisation. MOOC courses (massive open online courses) of relevance offered by Institutions of repute are to be identified by the student in consultation with the faculty advisor and get it approved from the University regarding the credits to be allotted. Additionally, there is an option for the student to join the summer projects offered by IISc & IITs.

Amendment ordinance no. 3

- 1. Short Title and commencement:** This Ordinance is called 3rd Amendment to Ordinance for BTech/BTech(Hon) dated 26-6-2015 . This shall come into force with immediate effect.
- 2. Rule 8 Under the heading Courses to be offered to BTech (Honours) shall be amended as follows:**

RU : 8 . The Institutions with at least two NBA accredited BTech/MTech programmes can offer BTech (Honours) degree for the students. To earn 12 additional credits, the student has to take at least four courses of which two should be from the MTech specialisation. MOOC courses (Massive open online courses) of relevance offered by Institutions of repute are to be identified by the student in consultation with the faculty advisor and get it approved from the University regarding the credits to be allotted. Additionally, there is an option for the student to join the summer projects offered by IISc & IITs. **If a student after registering for the BTech (Honours) programme fails in any course, there after, will not be eligible for BTech (Honours).**

3. Clause 7(h) under the heading “Course completion and Earning of Credits” shall be amended as follows:

Clause 7(h) : Under the heading “Course completion and Earning of Credits”, the following condition to be added .**For students admitted under lateral entry scheme, credits for the first and second semester courses are deemed to have been earned from the Diploma programme. Their eligibility criteria for registering for higher semester courses will be same as that for the BTech programme.**

4. Clause 7(m) shall be amended as follows:

Clause 7(m):A student has to earn a minimum number of credits in a semester to be eligible to register for the new courses offered in the next semester. In 1,2&3 semesters if this requirement is not met, the student is to be forewarned and allowed to continue to the next semester. However to register in the 4th,6th&8th semesters this requirement will be strictly implemented. Summer courses are offered to those who do not satisfy this norm after the 2nd, as well as 4th, semesters. Students who do not meet this requirement are not permitted to register for new courses in the higher semesters . They have to register for the failed courses in normal semesters in which they are offered subject to the limitations imposed by the ordinances and course timetable.

Action plan, for dealing with course arrears in theory courses at the end of each semester to continue with the programme, is given below. Faculty advisors shall monitor advice and support the students in this. Students should be informed about the minimum cumulative credits requirement to register for higher semester courses.

Eligibility Criteria for Registering for Higher Semester Courses

Semester	Allotted Credits	Cumulative Credits	Minimum cumulative credits required to register for courses
First	24	24	Not applicable
Second	23	47	Not insisted
Third	24	71	Not insisted
Fourth	23	94	26 credits from S1&S2
Fifth	23	117	Not insisted
Sixth	23	140	71 credits from S1 to S4
Seventh	22	162	Not insisted
Eight	18	180	117 credits from of S1 to S6

4.3 Kerala Technological University Ordinance MTech

4.3.1 Admission to the MTech Programme

Candidates who have been awarded or qualified for the award of the Bachelor's degree in Engineering / Technology, from an Institution approved by AICTE are eligible for admission to the MTech Programme. Eligibility of candidates having MCA/MSc qualifications will be decided from time to time by following the guidelines issued by All India Council for Technical Education (AICTE) and the Government of Kerala and notified separately. Other important eligibility criteria are as listed out by the Director of Technical Education with the approval of the Government of Kerala.

O-1.1 Candidates qualified in Graduate Aptitude Test in Engineering (GATE) and admitted to the MTech programme are eligible to receive Half Time Teaching Assistantship (HTTA) as per the rules of the All India Council for Technical Education (AICTE)/Ministry of Human Resource Development (MHRD).

O-1.2 Sponsored candidates from Industries, R&D organizations, National Laboratories as well as Educational Institutions, with a bachelor's degree in engineering are eligible for admission to the MTech programme.

O-1.3 Foreign nationals whose applications are received through Indian Council of Cultural Relations, Government of India are also eligible for admission to the MTech programme.

O-1.4 Announcements for MTech Programmes will be made by the DTE, Government of Kerala.

O-1.5 Selection of candidates for the MTech programme will be done centrally or monitored by the

Directorate of Technical Education as per the guidelines given on this by the Government of Kerala

O-1.6 The number of candidates to be admitted to each M. Tech stream will be as per the approval of the University which shall be based on decision on this given by the All India Council for Technical Education.

O-1.7 Admission will be complete only on meeting all the other requirements mentioned in the letter of admission and on payment of the fees.

O-1.8 Candidates who have the Associate Membership of Professional Bodies that are approved by the University and have qualified in GATE shall also be eligible for admission to the M. Tech. programme.

O-1.9 The reservation policy of the Government of Kerala and the Government of India shall be followed in admission to the MTech programme.

O-1.10 All admission will be governed by the procedure laid down for this by the Director of Technical Education, Kerala and the Government of Kerala.

O-1.11 Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to conform to directions from the Government of Kerala and the Government of India.

4.3.2 Duration of the Programme

The normal duration of the MTech programme, including the project work, shall be four semesters.

4.3.3 Post Graduate Programme Clusters

The University shall identify clusters of colleges offering MTech programmes in different streams and allow them to formulate procedures for the smooth conduct of all academic activities associated with the MTech programme, in line with the ordinances/regulations of the University. These clusters shall have academic autonomy, regulated by a Cluster level Graduate Committee [CGPC] consisting of all the principals of the colleges in the cluster. The Chairman of CGPC shall be an eminent academician nominated by the Vice Chancellor. The CGPC will be responsible for all academic matters including the curriculum, syllabi, course plans, internal evaluations, end semester examinations, and grading for all streams of MTech programme offered by the colleges in the cluster.

The CGPC can formulate additional rules for other academic aspects that are not covered by this Ordinance.

4.3.4 Specialization Streams in MTech Programme

The MTech programme streams offered by each cluster as well as the eligibility of candidates of different B. Tech. branches or having other qualifications, for each of them shall be approved by the CGPC.

4.3.5 MTech Programme Structure

- i) The MTech programme in all streams of specialization will be structured on a credit based system following the semester pattern with continuous evaluation.
- ii) The University permits regular as well as external registration (part time) for those in employment.
- iii) The duration for the MTech programme in all streams of specialization will normally be 4 semesters. The maximum duration is 6 semesters.
- iv) For students admitted on external registration, the normal duration will be 6 semesters. Here the maximum duration is 7 semesters.
- v) The University permits a regular student to change over to external registration during the programme, under specific circumstances like initiating a start up venture or to take up a job.
- vi) Each semester shall have a minimum of 72 instruction days followed by the end semester examination.
- vii) A common course structure for the MTech programmes in all streams of specialization is to be followed and consists of the following.
Core Courses, Elective Courses, Laboratory Courses, Seminar and Project
- viii) Every stream of specialisation in the MTech programme will have a curriculum and syllabi for the courses. The curriculum should be so drawn up that the minimum number of credits for successful completion of the MTech programme in any stream of specialization is not less than 64 and not more than 68.
- ix) Credits are assigned as follows, for one semester 1 credit for each lecture hour per week
1 credit for each tutorial hour per week
1 credit for each laboratory/ practical of 2 or 3 hours per week 2 credits for the seminar
2 credits for Mini Project
6 credits for Project in the 3rd **Semester 12 credits for Project in the 4th Semester**
- x) A pass is mandatory in all core courses. In case of failure in an elective course, there is the provision to choose another elective listed in the curriculum.
- xi) their request, CGPC shall examine the academic records and permit candidates with BTech (Honours) who have earned credits for any relevant graduate level courses to transfer credits towards the MTech programme. Candidates who received BTech (Honours) degree just prior to their MTech admission are permitted to transfer up to 9 credits. For those who received the BTech (Honours) degree within three years prior to their MTech admission

are permitted to transfer up to 6 credits.

Xii) The maximum number of lecture based courses and laboratory courses in any semester shall not exceed 5 and 2 respectively. The maximum credits in a semester shall be 23.

Xiii) Extension of Programme duration

The normal duration of the programme shall be four semesters.

In case of prolonged illness or other personal exigencies, the university may allow a student who has earned credits for at least one semester, to extend the programme up to the maximum duration of six semesters.

Students who have earned credits for the courses listed in the first two semesters are permitted to transfer their registration as external candidates if they take up a job. However, they have to complete the programme within six semesters.

4.3.6 Course Registration and Enrolment

All students have to register for the courses they desire to attend in a semester. Students admitted to the first semester are advised to register for all courses offered in the first semester. They do not have to enroll for the semester. All other students are required to register at the end of the semester for the courses they desire to take in the next semester. Later they have to enroll for these courses in the new semester based on the results in the previous semester. This allows them to make minor changes in the list of courses already registered for. Before enrolment, students should clear all dues including any fees to be paid and should not have any disciplinary proceedings pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment, allowed only up to 7 working days from the commencement of the semester, will attract a late fee.

A student can drop a course or substitute one already registered for by another, for valid reasons with the approval of the faculty advisor. However this has to be done within 7 working days from the commencement of the semester.

The maximum number of credits a student can register for in a semester is limited to 24.

4.3.7 Recommended Credit distribution over the semesters

First Semester : 20 to 23 credits

Second Semester : 18 to 19 credits

Third Semester : 14 credits

Fourth Semester : 12 credits [Project]

4.3.8 Academic Assessment/Evaluation

The University follows a continuous academic evaluation procedure.

The Assessment procedure and corresponding weights recommended are as follows:

For theory courses

- i. Two internal tests, each having: 15%
- ii. Tutorials/Assignments/ Mini projects having: 10%
- iii. End Semester examination having: 60% All the above are mandatory requirements to earn credits.

Students who have missed either the first or the second test can register with the consent of the faculty member and the Head of the Department concerned for a re-test which shall be conducted soon after the completion of the second test and before the end semester examination. The re-test will cover both the first and the second test course plans. If a student misses both the scheduled tests, there is no provision for any retests and zero marks will be given for each test. In case of serious illness and where the attendance is above 70% the Principal may permit the conduct of the tests for a student based on his application and other relevant medical reports. Such cases are to be reported to CGPC.

For Laboratory /Practical courses

- i. Practical Records /outputs : 40%
- ii. Regular Class Viva-Voce : 20%
- iii. Final Test (Objective) : 40%

4.3.9 Course Completion and earning of credits

Students registered and later enrolled for a course have to attend the course regularly and meet the attendance rules of the University and appear for all internal evaluation procedures for the completion of the course. However, earning of credits is only on completion of the end semester/supplementary examination and on getting a pass grade. Students, who had completed a course but could not write the end semester/supplementary examination for genuine health reasons or personal exigencies, if otherwise eligible are permitted to write the semester examination, at the next opportunity and earn credits without undergoing the course again. Failed candidates having more than 45% marks in their internals can also avail of this option. However, those who are not eligible to appear for the end semester examination have to register and undergo the course again, whenever it is offered, to earn the credits.

4.3.10 End Semester and Supplementary Examinations

At the end of the semester, the end semester examination will be conducted in all courses offered in the semester and will be of three hours duration unless otherwise specified. Supplementary examinations are to be conducted for eligible candidates registered for them, before the commencement of the next semester.

O-10.1 Eligibility to write the End Semester Examination and Grading

Eligibility criteria to appear for the semester examination are the attendance requirements in the course, 45% or more marks in the internal evaluation and having no pending disciplinary action. The minimum attendance for appearing for the semester examination is 85% in the course. In case of serious illness there is a relaxation for attendance [O-14.xvi]. Those who do not meet the eligibility criteria shall be awarded an FE Grade and have to register again for the course.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.

O-10.2 Eligibility to write the Supplementary Examination

Only failed students and those who could not write the semester examination due to health reasons or other personal exigencies that are approved by the Principal can register for the supplementary examination provided they meet the eligibility requirements given in O-10.1. Grades awarded in the supplementary examination will be taken as the semester grades in these courses.

4.3.11 Conduct of End Semester Examination

The Clusters will prepare the question papers, conduct the end semester examinations, organize the valuation of the answer scripts, finalise the results and submit it to the University, as per the academic calendar.

4.3.12 Award of MTech Degree

The award of the MTech Degree shall be in accordance with the Ordinances and Procedures given by the University.

A student will be eligible for the award of MTech Degree of the University on meeting the following requirements;

- i) Registered and earned the minimum credits, as prescribed in the curriculum, for the stream of specialization.
- ii) No pending disciplinary action.

4.3.13 Amendments to Ordinance:

Notwithstanding all that has been stated above, the University has the right to modify any of the above provisions of the ordinance from time to time.

4.3.14 Miscellaneous provisions:

A. Stream of Specialization:

The streams of specializations are to be in line with the approval given on this by the All India Council for Technical Education.

B. Language of Instruction

Unless otherwise stated, the language of instruction shall be English.

C. Academic Calendar

The University shall publish in its website the academic calendar for every academic semester indicating the date of commencement of the semester as well as instruction. It will specify the course registration and enrolment dates, the schedule for mandatory internal tests for theory courses, dates by which laboratory/practical evaluations are to be completed, date for finalization of internal marks, last instruction day in the semester, planned schedule of end semester examinations and result declaration as well as approved holidays falling within the semester. Schedules for the supplementary examinations and result declaration dates are to be included in the calendar. Additionally colleges may publish their academic calendar, in line with the University academic calendar, indicating other schedules and events they plan to conduct during the semester.

D. Eligibility to continue with the programme

A student has to earn a minimum number of credits in a semester to register for higher semester courses. This should be at least 2/3rd of the credits for the courses listed in for the semester. CGPC shall formulate the rules based on this and spell out the procedure to proceed with the programme. Failed students who have more than 45% marks in the internal course evaluation are permitted to write the semester examination without registering and undergoing the course. Those with less than 45% in internal course evaluation have to register again for the course, attend the classes and earn the credits.

E. Seminar

Students have to register for the seminar and select a topic in consultation with any faculty member offering courses for the programme. A detailed write-up on the topic of the seminar is to be prepared in the prescribed format given by the Department. The seminar shall be of 30 minutes duration and a committee with the Head of the department as the chairman and two faculty members from the department as members shall evaluate the seminar based on the report and coverage of the topic, presentation and ability to answer the questions put forward by the committee.

Suggested evaluation procedure:-

Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report	: 30%
Presentation	: 40%
Ability to answer questions on the topic	: 30%

F. Project work

Project work is spread over the third and fourth semesters. Project work is to be evaluated both in the third and the fourth semesters. Based on these evaluations the grade is finalised only in the fourth semester.

Project evaluation weights shall be as follows:- For convenience the marks are allotted as follows.

Total marks for the Project: 150 In the 3rd Semester :- Marks:50

Project Progress evaluation details:

Progress evaluation by the Project Supervisor/s : 20 Marks

Presentation and evaluation by the committee : 30 Marks

In the 4th Semester :- Marks: 100

Project evaluation by the supervisor/s : 30

Marks Presentation & evaluation by the Committee : 40 Marks

Evaluation by the External expert : 30 Marks

G. Faculty Advisor, Class Committee**a. Faculty Advisor**

The Head of the Department offering the MTech programme shall nominate senior faculty members as faculty advisors who shall advise the students in academic matters and support them in their studies. Their role is to help the students in academics and personal difficulties related to studies. A faculty advisor may support a group of students in a semester.

b. Class Committees are to be in place for all MTech programs in the college.

Class Committee

All MTech streams of specialization will have class committees for each semester, constituted by the respective Heads of Departments.

The Chairman of the committee shall be a senior faculty member who does not offer any course for that stream in that semester.

Members:-

i. All faculty members teaching courses for the stream in that semester.

ii. Two student representatives nominated by the Head of the Department, from the stream.

Class committees shall meet at least thrice in a semester - one in the beginning and one around the middle of the semester and one at least two weeks before the semester examinations. These committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests and evaluation process and address the difficulties faced by the students and take suitable remedial actions at the appropriate time. Before the end semester examination, the committee should meet without the student representatives and finalise the internal marks. A report on the student performance in each course

should be prepared and submitted to the CGPC by the colleges.

H. Award of Grades

Grading is based on the marks obtained by the student in a course. [O-14 ix]

The grade card will only show the grades against the courses the student has registered.

The semester grade card will show the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

I. Grades and Grade Points

Grades and Grade Points as per UGC guidelines are to be followed by the University

Grades	Grade Point (GP)	% of Total Marks obtained in the course
O (Outstanding)	10	90% and above
A+ (Excellent)	9	85% and above but less than 90%
A (Very Good)	8.5	80% and above but less than 85%
B+ (Good)	8	70% and above but less than 80%
B (Above Average)	7	60% and above but less than 70%
C (Average)	6	50% and above but less than 60%
P (Pass)	5	45% and above but less than 50%
F (Fail)	0	Less than 45%
FE	0	Failed due to eligibility criteria
I		Course Incomplete

Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are calculated based on the above grading norms and are explained at the end of this document.

J. Academic Auditing

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the college and an external academic auditing for each college. The internal academic auditing cell in each college shall oversee and monitor all academic activities including all internal evaluations and semester examinations. This cell is to prepare academic audit statements for each semester at regular intervals of four weeks of instruction. These reports are to be presented to the external academic auditor appointed by the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing will cover:-

- a. Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects, conduct of practical classes and their evaluation. Semester examination and academic performance of the students.
- b. Co-curricular and Extra-curricular activities available for students, and their organization.
- c. Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic environment, academic accountability, academic achievements and benchmarking.

K. Revaluation and Grade improvement

There is no provision for revaluation of the semester answer books or for improving the grade.

Students are permitted to check the answer books of the semester examination, after the results are declared. Any discrepancies in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this and report to the CGPC for a final decision on this.

L. Grade Cards

Students who have written the semester examination will be given the grade cards for the registered courses, in every semester by the respective colleges. On earning the required credits for the degree, a consolidated grade sheet for the MTech programme will be issued by the University on the recommendation of the respective CGPC.

The MTech degree will not have any classification like distinction or first class.

M. Academic Discipline and Malpractices in Examinations

Every student is required to observe discipline and decorous behaviour.

Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the **Disciplinary Action Committee (DAC)**. Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examinations shall be reported to the Principle who in turn shall refer it to DAC. On the basis of the report and evidence available or gathered, DAC shall immediately initiate an enquiry giving the concerned student a chance to explain his/her case. Based on this the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of Examination of the University and forward it to the Principal for action.

Actions are to be based on the severity of the offence and are to be dealt with, on a course basis. Guidelines on this shall be given by the Controller of Examination which is to be followed by the Disciplinary Action Committee of the college.

DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members. In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University

N. Student's Welfare Committee

Every college shall have a Student's Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

O. Grievances and Appeals Committee

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into student's grievances and appeals and give its recommendations to the Principal for action.

P. Attendance

Attendance is marked for each course. 85% attendance is mandatory for writing the semester examination in a course. Students who get Part Time Teaching Assistantship (PTTA) or Scholarships from the Central or State Governments or any other agencies are expected to have 100 % attendance. However, under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extra-curricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 15 % of the academic contact hours for the course.

In case of long illness or major personal tragedies/exigencies the Principal can relax the minimum attendance requirement to 70%, to write the semester examination. This is permitted for one or more courses registered in the semester. The Principal shall keep all records which led to his decision on attendance, for verification by the Academic Auditor. However this concession is applicable only to any one semester during the entire programme. In case of prolonged illness, break of study is permitted up to two semesters which could extend the programme up to six semesters, the maximum permitted by the regulations.

Q. Leave of Absence

Students who desire to take leave have to apply for it to the teacher conducting the course. This application together with any supporting documents like doctor's certificate or other relevant information is to be forwarded to the Head of the Department with the recommendation of the teacher indicating the total leave of absence the student has so far availed. Approval for leave is to be given by the head of the department. After any prolonged medical leave, normally exceeding five instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

R. Project Evaluation

Normally students are expected to do the project within the college. However they are permitted to do the project in an industry or in a government research institute under a qualified supervisor from that organization. Progress of the project work is to be evaluated at the end of the third semester. For this a committee headed by the head of the department with two other faculty

members in the area of the project and the project supervisor/s. If the project is done outside the college, the external supervisor associated with the student shall also be a member of the committee.

Final evaluation of the project will be taken up only if the student has earned all course credits listed in the first three semesters. Project evaluation shall be done by the same committee mentioned above with an external expert, either from an academic/R&D organization or from Industry, as an additional member. Final project grading shall take into account the progress evaluation done in the third semester and the project evaluation in the fourth semester. If the quantum of work done by the candidate is found to be unsatisfactory, the committee may extend the duration of the project up to one more semester, giving reasons for this in writing to the student. Normally further extension will not be granted and there shall be no provision to register again for the project.

S. Project work outside the College

While students are expected to do their projects in their colleges, provision is available for them to do it outside the college either in an industry or in an institute of repute. This is only possible in the fourth semester and the topic of investigation should be in line with the project part planned in the 3rd semester. Student should apply for this through the project supervisor indicating the reason for this well in advance, preferably at the beginning of the 3rd semester. The application for this shall include the following:-

Topic of the Project:

Project work plan in the 3rd Semester:

Reason for doing the project outside: Institution/Organization where the project is to be done:

External Supervisor – Name:

Designation:

Qualifications: Experience:

Letter of consent of the External Supervisor as well as from the organization is to be obtained.

This application is to be vetted by the head of the department and based on the decision taken the student is permitted to do the project outside the college.

T. Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

U. Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

$SGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$ where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student in the semester. Here the failed courses are also accounted.

$CGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$ where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student during all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given.

4.4 BTech Curriculum 2019 Scheme

4.4.1 Curriculum I To VIII: BTech Civil Engineering

SEMESTER I

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 101	Linear Algebra and Calculus	3-1-0	4	4
B 1/2	PHI 110	Engineering Physics B	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 101	Life Skills	2-0-2	4	--
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	23/24 *	17

SEMESTER II

Slot	Course No	Courses	L-T-P	Hours	Credit
A	MAT 102	Vector Calculus, Differential Equations And Transforms	3-1-0	4	4
B 1/2	PHI 110	Engineering Physics B	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 102	Professional Communication	2-0-2	4	--
F	EST 102	Programming In C	2-1-2	5	4
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	28/29	21

SEMESTER III

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT201	Partial Differential Equation and Complex Analysis	3-1-0	4	4
B	CET201	Mechanics Of Solids	3-1-0	4	4
C	CET203	Fluid & Hydraulics	3-1-0	4	4
D	CET205	Surveying & Geomatics	4-0-0	4	4
E 1/2	EST200	Design & Engineering	2-0-0	2	2
	HUT200	Professional Ethics	2-0-0	2	2
F	MCN201	Sustainable Engineering	2-0-0	2	--
S	CEL201	Civil Engineering Planning & Drafting Lab	0-0-3	3	2
T	CEL203	Survey Lab	0-0-3	3	2
R/M	VAC	Remedial/Minor Course	3-1-0	4 *	4
			Total	26/30	22/26

SEMESTER IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT202	Probability, Statistics and Numerical Methods	3-1-0	4	4
B	CET202	Engineering Geology	3-0-1	4	4
C	CET204	Geotechnical Engineering - I	4-0-0	4	4
D	CET206	Transportation Engineering	4-0-0	4	4
E 1/2	EST200	Design & Engineering	2-0-0	2	2
	HUT200	Professional Ethics	2-0-0	2	2
F	MCN202	Constitution Of India	2-0-0	2	- -
S	CEL202	Material Testing Lab- I	0-0-3	3	2
T	CEL204	Fluid Mechanics Lab	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	26/30	22/26

SEMESTER V

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CET301	Structural Analysis - I	3-1-0	4	4
B	CET303	Design Of Concrete Structures	3-1-0	4	4
C	CET305	Geotechnical Engineering - II	4-0-0	4	4
D	CET307	Hydrology & Water Resources Engineering	4-0-0	4	4
E	CET309	Construction Technology & Management	3-0-0	3	3
F	MCN301	Disaster Management	2-0-0	2	--
S	CEL331	Material Testing Lab - II	0-0-3	3	2
T	CEL333	Geotechnical Engineering Lab	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	27/31	23/27

SEMESTER VI

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CET302	Structural Analysis - II	3-1-0	4	4
B	CET304	Environmental Engineering	4-0-0	4	4
C	CET306	Design Of Hydraulic Structures	4-0-0	4	4
D	CETXXX	Program Elective I	3-0-0	3	3
E	HUT300	Industrial Economics & Foreign Trade	3-0-0	3	3
F	CET308	Comprehensive Course Work	1-0-0	1	1
S	CEL332	Transportation Engineering Lab	0-0-3	3	2
T	CEL334	Civil Engineering Software Lab	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	25/29	23/27

PROGRAM ELECTIVE I

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	CET312	Advanced Computational Methods	3-0-0	3	3
	CET322	Geotechnical Investigation	3-0-0		
	CET332	Traffic Engineering & Management	3-0-0		
	CET342	Mechanics Of Fluid Flow	3-0-0		
	CET352	Advanced Concrete Technology	3-0-0		
	CET362	Environmental Impact Assessment	3-0-0		
	CET372	Functional Design of Buildings	3-0-0		

SEMESTER VII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CET401	Design Of Steel Structures	3-0-0	3	3
B	CETXXX	Program Elective II	3-0-0	3	3
C	CETXXX	Open Elective	3-0-0	3	3
D	MCN401	Industrial Safety Engineering	2-1-0	3	---
S	CEL411	Environmental Engg. Lab	0-0-3	3	2
T	CEQ413	Seminar	0-0-3	3	2
U	CED415	Project Phase I	0-0-6	6	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	24/28	15/19

PROGRAM ELECTIVE II

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	CET413	Prestressed Concrete	3-0-0	3	3
	CET423	Ground Improvement Techniques	3-0-0		
	CET433	Highway Materials and Design	3-0-0		
	CET443	Applied Hydrology	3-0-0		
	CET453	Construction Planning & Management	3-0-0		
	CET463	Advanced Environmental Engineering	3-0-0		
	CET473	Optimisation Techniques in Civil Engineering	3-0-0		

OPEN ELECTIVE

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	CET415	Environmental Impact Assessment	2-1-0	3	3
	CET425	Applied Earth Systems	2-1-0		
	CET435	Informatics For Infrastructure Management	2-1-0		
	CET445	Natural Disasters and Mitigation	2-1-0		
	CET455	Environmental Health And Safety	2-1-0		
	CET465	Geoinformatics	2-1-0		

SEMESTER VIII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CET402	Quantity Surveying & Valuation	3-0-0	3	3
B	CETXXX	Program Elective III	3-0-0	3	3
C	CETXXX	Program Elective IV	3-0-0	3	3
D	CETXXX	Program Elective V	3-0-0	3	3
E	CET404	Comprehensive Viva Voce	1-0-0	1	1
U	CED416	Project Phase ii	0-0-12	12	4
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	25/29	17/21

PROGRAM ELECTIVE III

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	CET414	Advanced Structural Design	3-0-0	3	3
	CET424	Geoenvironmental Engineering	3-0-0		
	CET434	Railway And Tunnel Engineering	3-0-0		
	CET444	Irrigation & Drainage Engineering	3-0-0		
	CET454	Construction Methods & Equipment	3-0-0		
	CET464	Air quality Management	3-0-0		
	CET474	Urban Planning & Architecture	3-0-0		

PROGRAM ELECTIVE IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	CET416	Bridge Engineering	3-0-0	3	3
	CET426	Advanced Foundation Design	3-0-0		
	CET436	Transportation Planning	3-0-0		
	CET446	Informatics For Infrastructure Management	3-0-0		
	CET456	Repair And Rehabilitation of Buildings	3-0-0		
	CET466	Environmental Remote sensing	3-0-0		
	CET476	Building Services	3-0-0		

PROGRAM ELECTIVE V

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	CET418	Earthquake resistant Design	3-0-0	3	3
	CET428	Soil Structure Interaction	3-0-0		
	CET438	Airport, Seaport and Harbour Engineering	3-0-0		
	CET448	Hydroclimatology	3-0-0		
	CET458	Sustainable Construction	3-0-0		
	CET468	Climate Change & Sustainability	3-0-0		
	CET478	Building Information Modelling	3-0-0		

MINORS

S E M	Basket I				Basket II				Basket III			
	Course No.	Course Name	h o u r s	c r e d i t	Course No.	Course Name	h o u r s	c r e d i t	Course No.	Course Name	h o u r s	c r e d i t
S3	CET 281	Building Construction & Structural Systems	4	4	CET 283	Introduction To Geotechnical Engineering	4	4	CET 285	Informatics For Infrastructur e Management	4	4
S4	CET 282	Building Drawing	4	4	CET 284	Introducti on to Transporta tion Engineerin g	4	4	CET 286	Climate Change & Hazard Mitigation	4	4
S5	CET 381	Structural Mechanics	4	4	CET 383	Eco-Friendly Transportation Systems	4	4	CET 385	Sustainability Analysis & Design	4	4
S6	CET 382	Estimation Costing & Valuation	4	4	CET 384	Geotechnical Investigation & Ground Improvement Techniques	4	4	CET 386	Environment al Health & Safety	4	4
S7	CED 481	Mini Project	4	4	CED 481	Mini Project	4	4	CED 481	Mini Project	4	4
S8	CED 482	Mini Project	4	4	CED 482	Mini Project	4	4	CED 482	Mini Project	4	4

HONOURS

Sem	Group I				Group II				Group III			
	Course No.	Course Name	h o u r s	c r e d i t	Course No.	Course Name	h o u r s	c r e d i t	Course No.	Course Name	h o u r s	c r e d i t
S4	CET 292	Advanced Mechanics of Solids	4	4	CET 294	Pavement Construction And Management	4	4	CET 296	Geographical Information Systems	4	4
S5	CET 393	Structural Dynamics	4	4	CET 395	Transportation Systems Management	4	4	CET 397	Ground Water Hydrology	4	4
S6	CET 394	Finite Element Methods	4	4	CET 396	Earth Dams and Earth Retaining Structures	4	4	CET 398	Environmental Pollution Modelling	4	4
S7	CET 495	Modern Construction Materials	4	4	CET 497	Soil Dynamics and Machine Foundations	4	4	CET 499	Environmental Pollution Control Techniques	4	4
S8	CED 496	Mini Project	4	4	CED 496	Mini Project	4	4	CED 496	Mini Project	4	4

4.4.2 Curriculum I To VIII: BTech Mechanical Engineering

SEMESTER I

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 101	Linear Algebra And Calculus	3-1-0	4	4
B 1/2	PHT 110	Engineering Physics B	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics Of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics Of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 101	Life Skills	2-0-2	4	--
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	23/24 *	17

SEMESTER II

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 102	Vector Calculus, Differential Equations and Transforms	3-1-0	4	4
B 1/2	PHT 110	Engineering Physics B	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 102	Professional Communication	2-0-2	4	--
F	EST 102	Programming in C	2-1-2	5	4
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	28/29	21

SEMESTER III

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT201	Partial Differential Equation and Complex Analysis	3-1-0	4	4
B	MET201	Mechanics Of Solids	3-1-0	4	4
C	MET203	Mechanics Of Fluids	3-1-0	4	4
D	MET205	Metallurgy & Material Science	3-1-0	4	4
E	EST200	Design And Engineering	2-0-0	2	2
½	HUT200	Professional Ethics	2-0-0	2	2
F	MCN201	Sustainable Engineering	2-0-0	2	--
S	MEL201	Computer Aided Machine Drawing	0-0-3	3	2
T	MEL203	Materials Testing Lab	0-0-3	3	2
R/M	VAC	Remedial/Minor Course	3-1-0	4**	4
			Total	26/30	22/26

SEMESTER IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT202	Probability, Statistics And Numerical Methods	3-1-0	4	4
B	MET202	Engineering Thermodynamics	3-1-0	4	4
C	MET204	Manufacturing Process	3-1-0	4	4
D	MET206	Fluid Machinery	3-1-0	4	4
E	EST200	Design And Engineering	2-0-0	2	2
1/2	HUT200	Professional Ethics	2-0-0	2	2
F	MCN202	Constitution Of India	2-0-0	2	--
S	MEL202	Fm & Hm Lab	0-0-3	3	2
T	MEL204	Machine Tools Lab-I	0-0-3	3	2
R/M / H	VAC	Remedial/Minor/Honors Course	3-1-0	4*	4
			Total	26/30	22/26

SEMESTER V

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MET301	Mechanics Of Machinery	3-1-0	4	4
B	MET303	Thermal Engineering	3-1-0	4	4
C	MET305	Industrial & Systems Engineering	3-1-0	4	4
D	MET307	Machine Tools and Metrology	3-1-0	4	4
E	HUT300	Industrial Economics And Foreign Trade	3-0-0	3	3
1/2	HUT310	Management For Engineers	3-0-0	3	3
F	MCN301	Disaster Management	2-0-0	2	--
S	MEL331	Machine Tools Lab-ii	0-0-3	3	2
T	MEL333	Thermal Engineering Lab-I	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honors Course	3-1-0	4*	4
			Total	27/31	23/27

SEMESTER VI

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MET302	Heat & Mass Transfer	3-1-0	4	4
B	MET304	Dynamics and Design Of Machinery	3-1-0	4	4
C	MET306	Advanced Manufacturing Engineering	3-1-0	4	4
D	METXXX	Program Elective I	2-1-0	3	3
E ½	HUT300	Industrial Economics And Foreign Trade	3-0-0	3	3
	HUT310	Management For Engineers	3-0-0	3	3
F	MET308	Comprehensive Course Work	1-0-0	1	1
S	MEL332	Computer Aided Design & Analysis Lab	0-0-3	3	2
T	MEL334	Thermal Engineering Lab-ii	0-0-3	3	2
R/M/ H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	25/29	23/27

PROGRAM ELECTIVE I

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	MET312	Nondestructive Testing	2-1-0	3	3
	MET322	Computational Fluid Dynamics	2-1-0		
	MET332	Advanced Mechanics of Solids	2-1-0		
	MET342	IC Engine Combustion And Pollution	2-1-0		
	MET352	Automobile Engineering	2-1-0		
	MET362	Product Design and Development	2-1-0		
	MET372	Advanced Metal Joining Techniques	2-1-0		

SEMESTER VII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MET401	Design Of Machine Elements	2-1-0	3	3
B	METXXX	Program Elective II	2-1-0	3	3
C	METXXX	Open Elective	2-1-0	3	3
D	MCN401	Industrial Safety Engineering	2-1-0	3	---
S	MEL411	Mechanical Engineering Lab	0-0-3	3	2
T	MEQ413	Seminar	0-0-3	3	2
U	MED415	Project Phase I	0-0-6	6	2
R/M/ H	VAC	Remedial/Minor/Honors Course	3-1-0	4*	4
			Total	24/28	15/19

PROGRAM ELECTIVE II

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	MET413	Advanced Methods In Nondestructive Testing	2-1-0	3	3
	MET423	Optimization Techniques And Applications	2-1-0		
	MET433	Finite Element Method	2-1-0		
	MET443	Aerospace Engineering	2-1-0		
	MET453	Hybrid And Electric Vehicles	2-1-0		
	MET463	Operations Management	2-1-0		
	MET473	Air Conditioning and Refrigeration	2-1-0		

OPEN ELECTIVE

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	MET415	Introduction To Business Analytics	2-1-0	3	3
	MET425	Quantitative Techniques for Engineers	2-1-0		
	MET435	Automotive Technology	2-1-0		
	MET445	Renewable Energy Engineering	2-1-0		
	MET455	Quality Engineering And Management	2-1-0		

SEMESTER VIII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MET402	Mechatronics	2-1-0	3	3
B	METXXX	Program Elective III	2-1-0	3	3
C	METXXX	Program Elective IV	2-1-0	3	3
D	METXXX	Program Elective V	2-1-0	3	3
E	MET404	Comprehensive Viva Voce	1-0-0	1	1
U	MED416	Project Phase II	0-0-12	12	4
R/M/H	VAC	Remedial/Minor/Honors Course	3-1-0	4*	4
			Total	25/28	17/21

PROGRAM ELECTIVE III

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	MET414	Quality Management	2-1-0	3	3
	MET424	Decisions With Metaheuristics	2-1-0		
	MET434	Pressure Vessel and Piping Design	2-1-0		
	MET444	Data Analytics for Engineers	2-1-0		
	MET454	Industrial Tribology	2-1-0		
	MET464	Micro And Nano Manufacturing	2-1-0		
	MET474	Heating And Ventilation Systems	2-1-0		

PROGRAM ELECTIVE IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	MET 416	Composite Materials	2-1-0	3	3
	MET 426	Artificial Intelligence And Machine Learning	2-1-0		
	MET 436	Acoustics And Noise Control	2-1-0		
	MET 446	Heat Transfer Equipment Design	2-1-0		
	MET 456	Robotics And Automation	2-1-0		
	MET 466	Technology Management	2-1-0		
	MET 476	Cryogenic Engineering	2-1-0		

PROGRAM ELECTIVE V

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	MET 418	Reliability Engineering	2-1-0	3	3
	MET 428	Industrial Internet Of Things	2-1-0		
	MET438	Fracture Mechanics	2-1-0		
	MET 448	Gas Turbines and Jet Propulsion	2-1-0		
	MET 458	Advanced Energy Engineering	2-1-0		
	MET 468	Additive Manufacturing	2-1-0		
	MET 478	Power Plant Engineering	2-1-0		

MINORS

S e m	Basket I				Basket II				Basket III			
	Course No.	Course Name	h o u r s	cr e d i t	Course No.	Course Name	h o u r s	cr e d i t	Course No.	Course Name	h o u r s	cr e d i t
S3	MET281	Mechanics of Materials	4	4	MET283	Fluid Mechanics & Machinery	4	4	MET285	Material Science & Technology	4	4
S4	MET282	Theory of Machines	4	4	MET284	Thermodynamics	4	4	MET286	Manufacturing Technology	4	4
S5	MET381	Dynamics of Machines	4	4	MET383	Thermal Science And Engineering	4	4	MET385	Machine Tools Engineering	4	4
S6	MET382	Machine Design	4	4	MET384	Heat Transfer	4	4	MET386	Industrial Engineering	4	4
S7	MED481	Miniproject	4	4	MED481	Miniproject	4	4	MED481	Miniproject	4	4
S8	MED482	Miniproject	4	4	MED482	Miniproject	4	4	MED482	Miniproject	4	4

HONOURS

Sem	Group I				Group II				Group III			
	Course No.	Course Name	hours	credit	Course No.	Course Name	hours	credit	Course No.	Course Name	hours	credit
S4	MET292	Continuum Mechanics	4	4	MET294	Advanced Mechanics Of Fluids	4	4	MET296	Materials In Manufacturing	4	4
S5	MET393	Experimental Stress Analysis	4	4	MET395	Advanced Thermodynamics	4	4	MET397	Fluid Power Automation	4	4
S6	MET394	Advanced Design Synthesis	4	4	MET396	Compressible Fluid Flow	4	4	MET398	Advanced Numerical Controlled Machining	4	4
S7	MET495	Advanced Theory of Vibrations	4	4	MET497	Computational Methods in Fluid Flow & Heat Transfer	4	4	MET499	Precision Machining	4	4
S8	MED496	Miniproject	4	4	MED496	Miniproject	4	4	MED496	Miniproject	4	4

4.4.3 Curriculum I To VIII: BTech Electrical & Electronics Engineering

SEMESTER I

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 101	Linear Algebra And Calculus	3-1-0	4	4
B 1/2	PHT 100	Engineering Physics A	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics Of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics Of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 101	Life Skills	2-0-2	4	--
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	23/24 *	17

SEMESTER II

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 102	Vector Calculus, Differential Equations and Transforms	3-1-0	4	4
B 1/2	PHT 100	Engineering Physics A	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics Of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 102	Professional Communication	2-0-2	4	--
F	EST 102	Programming in C	2-1-2	5	4
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	28/29	21

SEMESTER III

Slot	Course No	Courses	L-T-P	Hours	Credit
A	MAT201	Partial Differential Equation And Complex Analysis	3-1-0	4	4
B	EET201	Circuits And Networks	2-2-0	4	4
C	EET203	Measurements And Instrumentation	3-1-0	4	4
D	EET205	Analog Electronics	3-1-0	4	4
E ½	EST200	Design & Engineering	2-0-0	2	2
	HUT200	Professional Ethics	2-0-0	2	2
F	MCN201	Sustainable Engineering	2-0-0	2	--
S	EEL201	Circuits And Measurements Lab	0-0-3	3	2
T	EEL203	Analog Electronics Lab	0-0-3	3	2
R/M	VAC	Remedial/Minor Course	3-1-0	4 *	4
			Total	26/30	22/26

SEMESTER IV

Slot	Course No	Courses	L-T-P	Hours	Credit
A	MAT 204	Probability, Random Processes and Numerical Methods	3-1-0	4	4
B	EET202	DC Machines and Transformers	2-2-0	4	4
C	EET204	Electromagnetic Theory	3-1-0	4	4
D	EET206	Digital Electronics	3-1-0	4	4
E ½	EST200	Design & Engineering	2-0-0	2	2
	HUT200	Professional Ethics	2-0-0	2	2
F	MCN202	Constitution Of India	2-0-0	2	--
S	EEL202	Electrical Machines Lab I	0-0-3	3	2
T	EEL204	Digital Electronics Lab	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	26/30	22/26

SEMESTER V

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	EET301	Power Systems I	3-1-0	4	4
B	EET303	Microprocessors And Microcontrollers	3-1-0	4	4
C	EET305	Signals And Systems	3-1-0	4	4
D	EET307	Synchronous And Induction Machines	3-1-0	4	4
E 1/2	HUT300	Industrial Economics & Foreign Trade	3-0-0	3	3
	HUT310	Management For Engineers	3-0-0	3	3
F	MCN301	Disaster Management	2-0-0	2	--
S	EEL331	Microprocessors And Microcontrollers Lab	0-0-3	3	2
T	EEL333	Electrical Machines Lab ii	0-0-3	3	2
R/M/H	Vac	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	27/31	23/27

SEMESTER VI

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	EET302	Linear Control Systems	2-2-0	4	4
B	EET304	Power Systems II	3-1-0	4	4
C	EET306	Power Electronics	3-1-0	4	4
D	EETXXX	Program Elective I	2-1-0	3	3
E 1/2	HUT300	Industrial Economics & Foreign Trade	3-0-0	3	3
	HUT310	Management For Engineers	3-0-0	3	3
F	EET308	Comprehensives Course Work	1-0-0	1	1
S	EEL332	Power Systems Lab	0-0-3	3	2
T	EEL334	Power Electronics Lab	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	28/32	23/27

PROGRAM ELECTIVE I

Slot	Course No	Courses	L-T-P	Hours	Credit
D	EET312	Biomedical Instrumentation	2-1-0	3	3
	EET322	Renewable Energy Systems	2-1-0		
	EET332	Computer Organization	2-1-0		
	EET342	High Voltage Engineering	2-1-0		
	EET352	Object Oriented Programming	2-1-0		
	EET362	Material Science	2-1-0		
	EET372	Soft Computing	2-1-0		

SEMESTER VII

Slot	Course No	Courses	L-T-P	Hours	Credit
A	EET401	Advanced Control Systems	2-1-0	3	3
B	EETXXX	Program Elective II	2-1-0	3	3
C	EETXXX	Open Elective	2-1-0	3	3
D	MCN401	Industrial Safety Engineering	2-1-0	3	---
S	EEL411	Control Systems Lab	0-0-3	3	2
T	EEQ413	Seminar	0-0-3	3	2
U	EED415	Project Phase I	0-0-6	6	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	24/28	15/19

PROGRAM ELECTIVE II

Slot	Course No	Courses	L-T-P	Hours	Credit
B	EET413	Electric Drives	2-1-0	3	3
	EET423	Digital Control Systems	2-1-0		
	EET433	Modern Operating Systems	2-1-0		
	EET443	Data Structures	2-1-0		
	EET453	Digital Signal Processing	2-1-0		
	EET463	Illumination Technology	2-1-0		
	EET473	Digital Protection of Power Systems	2-1-0		

OPEN ELECTIVES

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	EET415	Control Systems Engineering	2-1-0	3	3
	EET425	Introduction To Power Processing	2-1-0		
	EET435	Renewable Energy Systems	2-1-0		
	EET445	Electric Vehicles	2-1-0		
	EET455	Energy Management	2-1-0		

SEMESTER VIII

Slot	Course No	Courses	L-T-P	Hours	Credit
A	EET402	Electrical System Design and Estimation	2-1-0	3	3
B	EETXXX	Program Elective III	2-1-0	3	3
C	EETXXX	Program Elective IV	2-1-0	3	3
D	EETXXX	Program Elective V	2-1-0	3	3
T	EET404	Comprehensive Course Viva	1-0-0	1	1
U	EED416	Project Phase II	0-0-12	12	4
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4*	4
			Total	25/29	17/21

PROGRAM ELECTIVE III

Slot	Course No	Courses	L-T-P	Hours	Credit
B	EET414	Robotics	2-1-0	3	3
	EET424	Energy Management	2-1-0		
	EET434	Smart Grid Technologies	2-1-0		
	EET444	Electrical Machine Design	2-1-0		
	EET454	Switched Mode Power Converters	2-1-0		
	EET464	Computer Aided Power System Analysis	2-1-0		
	EET474	Machine Learning	2-1-0		

PROGRAM ELECTIVE IV

Slot	Course No	Courses	L-T-P	Hours	Credit
C	EET416	Nonlinear Systems	2-1-0	3	3
	EET426	Special Electric Machines	2-1-0		
	EET436	Power Quality	2-1-0		
	EET446	Computer Networks	2-1-0		
	EET456	Design Of Power Electronic Systems	2-1-0		
	EET466	HVDC & Facts	2-1-0		
	EET476	Advanced Electronic Design	2-1-0		

PROGRAM ELECTIVE V

Slot	Course No	Courses	L-T-P	Hours	Credit
D	EET418	Electric And Hybrid Vehicles	2-1-0	3	3
	EET428	Internet Of Things	2-1-0		
	EET438	Energy Storage Systems	2-1-0		
	EET448	Robust And Adaptive Control	2-1-0		
	EET458	Solar PV Systems	2-1-0		
	EET468	Industrial Instrumentation & Automation	2-1-0		
	EET478	Big Data Analytics	2-1-0		

MINORS

SEM	Basket I				Basket II				Basket III			
	Course No.	Course Name	hours	credit	Course No.	Course Name	hours	credit	Course No.	Course Name	hours	credit
S3	EET281	Electric Circuits	4	4	EET 283	Introduction To Power Engineering	4	4	EET 285	Dynamic Circuits and Systems	4	4
S4	EET 282	Electrical Machines	4	4	EET 284	Energy Systems	4	4	EET 286	Principles of Instrumentation	4	4
S5	EET 381	Solid State Power Conversion	4	4	EET 383	Solar And Wind energy Conversion Systems	4	4	EET 385	Control Systems	4	4
S6	EET 382	Power Semiconductor Drives	4	4	EET 384	Instrumentation And Automation of Power Plants	4	4	EET 386	Digital Control	4	4
S7	EED 481	Miniproject	4	4	EED 481	Miniproject	4	4	EED 481	Miniproject	4	4
S8	EED 482	Miniproject	4	4	EED 482	Miniproject	4	4	EED 482	Miniproject	4	4

HONOURS

Sem	Group I				Group II				Group III			
	Course No	Course Name	hours	credit	Course No	Course Name	hours	credit	Course No	Course Name	hours	credit
S4	EET292	Network Analysis And Synthesis	4	4	EET 292	Network Analysis And Synthesis	4	4	EET 292	Network Analysis And Synthesis	4	4
S5	EET393	Digital Simulation	4	4	EET 393	Digital Simulation	4	4	EET 393	Digital Simulation	4	4
S6	EET394	Generalised Machine Theory	4	4	EET 396	Analysis of Power Electronic Circuits	4	4	EET 398	Operation And Control of Power Systems	4	4
S7	EET495	Operation And Control of Generators	4	4	EET 497	Dynamics of Power Converters	4	4	EET 499	Control And Dynamics of Microgrids	4	4
S8	EED496	Miniproject	4	4	EED 496	Miniproject	4	4	EED 496	Miniproject	4	4

4.4.4 Curriculum I To VIII: BTech Electronics & Communication Engineering

SEMESTER I

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 101	Linear Algebra and Calculus	3-1-0	4	4
B 1/2	PHT 100	Engineering Physics A	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics Of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics Of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 101	Life Skills	2-0-2	4	--
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	23/24 *	17

SEMESTER II

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 102	Vector Calculus, Differential Equations and Transforms	3-1-0	4	4
B 1/2	PHT 100	Engineering Physics A	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics Of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics Of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 102	Professional Communication	2-0-2	4	--
F	EST 102	Programming In C	2-1-2	5	4
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	28/29	21

SEMESTER III

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT201	Partial Differential Equation & Complex Analysis	3-1-0	4	4
B	ECT 201	Solid State Devices	3-1-0	4	4
C	ECT 203	Logic Circuit Design	3-1-0	4	4
D	ECT 205	Network Theory	3-1-0	4	4
E 1/2	EST200	Design And Engineering	2-0-0	2	2
	HUT200	Professional Ethics	2-0-0	2	2
F	MCN201	Sustainable Engineering	2-0-0	2	--
S	ECL 201	Scientific Computing Lab	0-0-3	3	2
T	ECL 203	Logic Design Lab	0-0-3	3	2
R/M	VAC	Remedial/Minor Course	3-1-0	4**	4
			Total	26/30	22/26

SEMESTER IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 204	Probability, Random Process and Numerical Methods	3-1-0	4	4
B	ECT 202	Analog Circuits	3-1-0	4	4
C	ECT 204	Signals And Systems	3-1-0	4	4
D	ECT 206	Computer Architecture and Microcontrollers	3-1-0	4	4
E 1/2	EST200	Design And Engineering	2-0-0	2	2
	HUT200	Professional Ethics	2-0-0	2	2
F	MCN202	Constitution Of India	2-0-0	2	- -
S	ECL 202	Analog Circuits and Simulation Lab	0-0-3	3	2
T	ECL 204	Microcontroller Lab	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4**	4
			Total	26/30	22/26

SEMESTER V

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	ECT 301	Linear Integrated Circuits	3-1-0	4	4
B	ECT 303	Digital Signal Processing	3-1-0	4	4
C	ECT 305	Analog And Digital Communication	3-1-0	4	4
D	ECT 307	Control Systems	3-1-0	4	4
E 1/2	HUT300	Industrial Economics and Foreign Trade	3-0-0	3	3
	HUT310	Management For Engineers	3-0-0	3	3
F	MCN301	Disaster Management	2-0-0	2	--
S	ECL 331	Analog Integrated Circuits and Simulation Lab	0-0-3	3	2
T	ECL 333	Digital Signal Processing Lab	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4**	4
			Total	27/31	23/27

SEMESTER VI

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	ECT 302	Electromagnetics	3-1-0	4	4
B	ECT 304	VLSI Circuit Design	3-1-0	4	4
C	ECT 306	Information Theory and Coding	3-1-0	4	4
D	ECTXXX	Program Elective I	2-1-0	3	3
E ½	HUT300	Industrial Economics And Foreign Trade	3-0-0	3	3
	HUT310	Management For Engineers	3-0-0	3	3
F	ECT 308	Comprehensive Course Work	1-0-0	1	1
S	ECL 332	Communication Lab	0-0-3	3	2
T	ECD 334	Miniproject	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honours Course	3-1-0	4**	4
			Total	25/29	23/27

PROGRAM ELECTIVE I

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	ECT 312	Digital System Design	2-1-0	3	3
	ECT 322	Power Electronics	2-1-0		
	ECT 332	Data Analysis	2-1-0		
	ECT 342	Embedded Systems	2-1-0		
	ECT 352	Digital Image Processing	2-1-0		
	ECT 362	Introduction To Mems	2-1-0		
	ECT 372	Quantum Computing	2-1-0		

SEMESTER VII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	ECT 401	Microwaves And Antennas	2-1-0	3	3
B	ECTXXX	Program Elective II	2-1-0	3	3
C	ECTXXX	Open Elective	2-1-0	3	3
D	MCN401	Industrial Safety Engineering	2-1-0	3	---
S	ECL 411	Electromagnetics Lab	0-0-3	3	2
T	ECQ 413	Seminar	0-0-3	3	2
U	ECD 415	Project Phase I	0-0-6	6	2
R/M/H	VAC	Remedial/Minor/Honors Course	3-1-0	4*	4
			Total	24/28	15/19

PROGRAM ELECTIVE II

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	ECT 413	Optical Fiber Communication	2-1-0	3	3
	ECT 423	Computer Networks	2-1-0		
	ECT 433	Opto-Electronic Devices	2-1-0		
	ECT 443	Instrumentation	2-1-0		
	ECT 453	Error Control Codes	2-1-0		
	ECT 463	Machine Learning	2-1-0		
	ECT 473	DSP Architectures	2-1-0		

OPEN ELECTIVE (OE)

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	ECT 415	Mechatronics	2-1-0	3	3
	ECT 425	Biomedical Instrumentation	2-1-0		
	ECT 435	Electronic Hardware For Engineers	2-1-0		
	ECT 445	IoT And Applications	2-1-0		
	ECT 455	Entertainment Electronics	2-1-0		

SEMESTER VIII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	ECT 402	Wireless Communication	2-1-0	3	3
B	ECTXXX	Program Elective III	2-1-0	3	3
C	ECTXXX	Program Elective Iv	2-1-0	3	3
D	ECTXXX	Program Elective V	2-1-0	3	3
E	ECT 404	Comprehensive Viva Voce	1-0-0	1	1
U	ECD 416	Project Phase II	0-0-12	12	4
R/M/H	VAC	Remedial/Minor/Honors Course	3-1-0	4*	4
			Total	25/28	17/21

PROGRAM ELECTIVE III

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	ECT 414	Biomedical Engineering	2-1-0	3	3
	ECT 424	Satellite Communication	2-1-0		
	ECT 434	Secure Communication	2-1-0		
	ECT 444	Pattern Recognition	2-1-0		
	ECT 454	Rf Circuit Design	2-1-0		
	ECT 464	Mixed Signal Circuit Design	2-1-0		
	ECT 474	Entrepreneurship	2-1-0		

PROGRAM ELECTIVE IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	ECT 416	Modern Communication Systems	2-1-0	3	3
	ECT 426	Real Time Operating Systems	2-1-0		
	ECT 436	Adaptive Signal Processing	2-1-0		
	ECT 446	Microwave Devices and Circuits	2-1-0		
	ECT 456	Speech And Audio Processing	2-1-0		
	ECT 466	Analog Cmos Design	2-1-0		
	ECT 476	Robotics	2-1-0		

PROGRAM ELECTIVE V

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	ECT 418	Mechatronics	2-1-0	3	3
	ECT 428	Optimization Techniques	2-1-0		
	ECT 438	Computer Vision	2-1-0		
	ECT 448	Low Power VLSI	2-1-0		
	ECT 458	Internet Of Things	2-1-0		
	ECT 468	Renewable Energy Systems	2-1-0		
	ECT 478	Organic Electronics	2-1-0		

MINORS

Sem	Basket I				Basket II				Basket III			
	Course No.	Course Name	h	c r	Course No.	Course Name	h	c r	Course No.	Course Name	h	c r
			o	e d			o	e d			o	e d
			u	i t			u	i t			u	i t
			r				r				r	
			s				s				s	
S3	ECT] 281	Electronic Circuits	4	4	ECT 283	Analog Communication	4	4	ECT285	Introduction To Signals And Systems	4	4
S4	ECT 282	Microcont rollers	4	4	ECT 284	Digital Communication	4	4	ECT286	Introduction To Digital Signal Processing	4	4
S5	ECT 381	Embedded System Design	4	4	ECT 383	Communication Systems	4	4	ECT385	Topics In Digital Image Processing	4	4
S6	ECT 382	VLSI Circuits	4	4	ECT 384	Data Networks	4	4	ECT386	Topics In Computer Vision	4	4
S7	ECD 481	Miniproject	4	4	ECD481	Miniproject	4	4	ECD481	Miniproject	4	4
S8	ECD 482	Miniproject	4	4	ECD482	Miniproject	4	4	ECD482	Miniproject	4	4

HONOURS

Sem	Group I				Group II				Group III			
	Course No.	Course Name	h	c r	Course No.	Course Name	h	c r	Course No.	Course Name	h	c r
			o	e d			o	e d			o	e d
			u	i t			u	i t			u	i t
			r				r				r	
			s				s				s	
S4	ECT292	Nanoelectronics	4	4	ECT 294	Stochastic Processes for Communication	4	4	ECT 296	Stochastic Signal Processing	4	4
S5	ECT393	FPGA Based System Design	4	4	ECT 395	Detection And Estimation Theory	4	4	ECT 397	Computational Tools For Signal Processing	4	4
S6	ECT394	Electronic Design Automation	4	4	ECT 396	Mimo and Multiuser Communication Systems	4	4	ECT 398	Detection And Estimation Theory	4	4
S7	ECT495	Rf Mems	4	4	ECT 497	Design & Analysis of Antennas	4	4	ECT 499	Multirate Signal Processing And Wavelets	4	4
S8	ECD496	Miniproject	4	4	ECD 496	Miniproject	4	4	ECD 496	Miniproject	4	4

4.3.5. Curriculum I To VIII: BTech Computer Science & Engineering

SEMESTER I

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 101	Linear Algebra and Calculus	3-1-0	4	4
B 1/2	PHT 100	Engineering Physics A	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics Of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 101	Life Skills	2-0-2	4	--
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1
			Total	23/24	17

SEMESTER II

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 102	Vector Calculus , Differential Equations And Transforms	3-1-0	4	4
B 1/2	PHT 100	Engineering Physics A	3-1-0	4	4
	CYT 100	Engineering Chemistry	3-1-0	4	4
C 1/2	EST 100	Engineering Mechanics	2-1-0	3	3
	EST 110	Engineering Graphics	2-0-2	4	3
D 1/2	EST 120	Basics of Civil & Mechanical Engineering	4-0-0	4	4
	EST 130	Basics Of Electrical & Electronics Engineering	4-0-0	4	4
E	HUN 102	Professional Communication	2-0-2	4	--
F	EST 102	Programming In C	2-1-2	5	4
S 1/2	PHL 120	Engineering Physics Lab	0-0-2	2	1
	CYL 120	Engineering Chemistry Lab	0-0-2	2	1
T 1/2	ESL 120	Civil & Mechanical Workshop	0-0-2	2	1
	ESL 130	Electrical & Electronics Workshop	0-0-2	2	1

	Total	28/29	21
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SEMESTER III

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 203	Discrete Mathematical Structures	3-1-0	4	4
B	CST 201	Data Structures	3-1-0	4	4
C	CST 203	Logic System Design	3-1-0	4	4
D	CST 205	Object Oriented Programming Using Java	3-1-0	4	4
E (1/2)	EST 200	Design & Engineering	2-0-0	2	2
	HUT 200	Professional Ethics	2-0-0	2	2
F	MCN 201	Sustainable Engineering	2-0-0	2	--
S	CSL 201	Data Structures Lab	0-0-3	3	2
T	CSL 203	Object Oriented Programming Lab (In Java)	0-0-3	3	2
R/M	VAC	Remedial/Minor course	3-1-0	4	4
			Total	26*	22/26

* Excluding Hours to be engaged for Remedial/Minor course.

SEMESTER IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	MAT 206	Graph Theory	3-1-0	4	4
B	CST 202	Computer Organization and Architecture	3-1-0	4	4
C	CST 204	Database Management Systems	3-1-0	4	4
D	CST 206	Operating Systems	3-1-0	4	4
E (1/2)	EST 200	Design & Engineering	2-0-0	2	2
	HUT 200	Professional Ethics	2-0-0	2	2
F	MCN 202	Constitution Of India	2-0-0	2	--
S	CSL 202	Digital Lab	0-0-3	3	2
T	CSL204	Operating Systems Lab	0-0-3	3	2
R/M/ H	VAC	Remedial/Minor/Honors course	3-1-0	4	4
			Total	26*	22/26

* Excluding Hours to be engaged for Remedial/Minor/Honors course.

SEMESTER V

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CST 301	Formal Languages and Automata Theory	3-1-0	4	4
B	CST 303	Computer Networks	3-1-0	4	4
C	CST 305	System Software	3-1-0	4	4
D	CST 307	Microprocessors And Microcontrollers	3-1-0	4	4
E	CST 309	Management of Software Systems	3-0-0	3	3
F	MCN 301	Disaster Management	2-0-0	2	--
S	CSL 331	System Software and Microprocessors Lab	0-0-4	4	2
T	CSL 333	Database Management Systems Lab	0-0-4	4	2
R/M/H	VAC	Remedial/Minor/Honors Course*	2-0-0	4	4
			Total	29*	23/27
* Excluding Hours to be engaged for Remedial/Minor/Honors course.					

SEMESTER VI

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CST 302	Compiler Design	3-1-0	4	4
B	CST 304	Computer Graphics And Image Processing	3-1-0	4	4
C	CST 306	Algorithm Analysis And Design	3-1-0	4	4
D	CST ---	Program Elective I	2-1-0	3	3
E	HUT 300	Industrial Economics & Foreign Trade	3-0-0	3	3
F	CST 308	Comprehensive Course Work	1-0-0	1	1
S	CSL 332	Networking Lab	0-0-3	3	2
T	CSD 334	Miniproject	0-0-3	3	2
R/M/H	VAC	Remedial/Minor/Honors course*	3-1-0	4	4
			Total	25*	23/27
* Excluding Hours to be engaged for Remedial/Minor/Honors course.					

PROGRAM ELECTIVE I

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	CST 312	i Foundations of machine learning	2-1-0	3	3
	CST 322	ii Data Analytics	2-1-0		
	CST 332	iii Foundations of Security in Computing	2-1-0		
	CST 342	iv Automated Verification	2-1-0		
	CST 362	v Programming in Python	2-1-0		
	CST 372	vii Data and Computer Communication	2-1-0		

Courses To Be Considered For Comprehensive Course Work

I Discrete Mathematical Structures
II Data Structures
III Operating Systems
IV Computer Organization and Architecture
V Database Management Systems
VI Formal Languages and Automata Theory

SEMESTER VII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CST 401	Artificial Intelligence	2-1-0	3	3
B	CST ---	Program Elective II	2-1-0	3	3
C	CST ---	Open Elective	2-1-0	3	3
D	MCN 401	Industrial Safety Engineering	2-1-0	3	---
S	CSL 411	Compiler Lab	0-0-3	3	2
T	CSQ 413	Seminar	0-0-3	3	2
U	CSD 415	Project Phase I	0-0-6	6	2
R/M/H	VAC	Remedial/Minor/Honors Course*	3-1-0	4	4
			Total	24*	15/19
* Excluding Hours to be engaged for Remedial/Minor/Honors course.					

PROGRAM ELECTIVE II

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	CST 413	i Machine learning	2-1-0	3	3
	CST 423	ii Cloud computing	2-1-0		
	CST 433	iii Security in computing	2-1-0		
	CST 443	Iv Model based software development	2-1-0		
	CST 463	vi Web programming	2-1-0		
	CST 473	vii Natural language processing	2-1-0		

OPEN ELECTIVE

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	CST 415	i Introduction to mobile computing	2-1-0	3	3
	CST 425	ii Introduction to deep learning	2-1-0		
	CST 435	iii Computer graphics	2-1-0		
	CST 445	iv Python for engineers	2-1-0		
	CST 455	v Object oriented concepts	2-1-0		

SEMESTER VIII

Slot	Course No.	Courses	L-T-P	Hours	Credit
A	CST 402	Distributed Computing	2-1-0	3	3
B	CST ---	Program Elective III	2-1-0	3	3
C	CST ---	Program Elective IV	2-1-0	3	3
D	CST ---	Program Elective V	2-1-0	3	3
T	CST 404	Comprehensive Course Viva	1-0-0	1	1
U	CSD 416	Project Phase II	0-0-12	12	4
R/M/ H	VAC	Remedial/Minor/Honors Course	3-1-0	4	4
			Total	25*	17/21
* Excluding Hours to be engaged for Remedial/Minor/Honors course.					

PROGRAM ELECTIVE III

Slot	Course No.	Courses	L-T-P	Hours	Credit
B	CST 414	i Deep learning	2-1-0	3	3
	CST 424	ii Programming paradigms	2-1-0		
	CST 434	iii Cryptography	2-1-0		
	CST 444	iv Soft computing	2-1-0		
	CST 454	v Fuzzy set theory and applications	2-1-0		
	CST 464	vi Embedded systems	2-1-0		
	CST 474	vii Computer vision	2-1-0		

PROGRAM ELECTIVE IV

Slot	Course No.	Courses	L-T-P	Hours	Credit
C	CST 416	i Formal methods and tools in software engineering	2-1-0	3	3
	CST 426	i I Client server architecture	2-1-0		
	CST 436	iii Parallel computing	2-1-0		
	CST 446	iv Data compression techniques	2-1-0		
	CST 466	vi Data mining	2-1-0		
	CST 476	vii Mobile computing	2-1-0		

PROGRAM ELECTIVE V

Slot	Course No.	Courses	L-T-P	Hours	Credit
D	CST 418	i High performance computing	2-1-0	3	3
	CST 428	ii Block chain technologies	2-1-0		
	CST 438	iii Image processing technique	2-1-0		
	CST 448	iv Internet of things	2-1-0		
	CST 458	v Software testing	2-1-0		
	CST 468	vi Bioinformatics	2-1-0		
	CST 478	vii Computational linguistics	2-1-0		

MINORS

Minor Buckets												
SEM	Bucket-1				Bucket-2				Bucket-3			
	Specialization - Software Engineering				Specialization - Machine Learning				Specialization - Networking			
	Course No	Course Name	h o u r s	cr e d i t	Course No	Course Name	h o u r s	cr e d i t	Course No	Course Name	h o u r s	cr e d i t
S3	CST 281	Object Oriented Programming	4	4	CST 283	Python For Machine Learning	4	4	CST 285	Data Communication	4	4
S4	CST 282	Programming Methodologies	4	4	CST 284	Mathematics For Machine Learning	4	4	CST 286	Introduction To Computer Networks	4	4
S5	CST 381	Concepts In Software Engineering	4	4	CST 383	Concepts In Machine Learning	4	4	CST 385	Client Server Systems	4	4
S6	CST 382	Introduction To Software Testing	4	4	CST 384	Concepts In Deep Learning	4	4	CST 386	Wireless Networks and IoT Applications	4	4
S7	CSD 481	Miniproject	4	4	CSD 481	Miniproject	4	4	CSD 481	Miniproject	4	4
S8	CSD 482	Miniproject	4	4	CSD 482	Miniproject	4	4	CSD 482	Miniproject	4	4

HONOURS

Honors Buckets												
Sem	Bucket-1				Bucket-2				Bucket-3			
	Specialization - Security in Computing				Specialization - Machine Learning				Specialization - Formal Methods			
	Course NO	Course Name	h o u r s	cr e d i t	Course NO	Course Name	h o u r s	cr e d i t	Course NO	Course Name	h o u r s	cr e d i t
S4	CST 292	Number Theory	4	4	CST 294	Computational Fundamentals for Machine Learning	4	4	CST 296	Principles of Program Analysis and Verification	4	4
S5	CST 393	Cryptographic Algorithms	4	4	CST 395	Neural Networks and Deep Learning	4	4	CST 397	Principles of Model Checking	4	4
S6	CST 394	Network Security	4	4	CST 396	Advanced Topics in Machine Learning	4	4	CST 398	Theory Of Computability and Complexity	4	4
S7	CST 495	Cyber Forensics	4	4	CST 497	Advanced Topics in Artificial Intelligence	4	4	CST 499	Logic For Computer Science	4	4
S8	CSD 496	Miniproject	4	4	CSD 496	Miniproject	4	4	CSD 496	Miniproject	4	4


Induction program

There will be three weeks induction program for first semester students. It is a unique three- week immersion Foundation Programme designed specifically for the fresher's which includes a wide range of activities right from workshops, lectures and seminars to sports tournaments, social works and much more. The programme is designed to mould students into well-rounded individuals, aware and sensitized to local and global conditions and foster their creativity, inculcate values and ethics, and help students to discover their passion. Foundation Programme also serves as a platform for the freshers to interact with their batch- mates and seniors and start working as a team with them. The program is structured around the following five themes:

The programme is designed keeping in mind the following objectives:

- Values and Ethics: Focus on fostering a strong sense of ethical judgment and moral fortitude.
- Creativity: Provide channels to exhibit and develop individual creativity by expressing themselves through art, craft, music, singing, media, dramatics, and other creative activities.
- Leadership, Communication and Teamwork: Develop a culture of teamwork and group communication.
- Social Awareness: Nurture a deeper understanding of the local and global world and our place in it as concerned citizens of the world.
- Physical Activities & Sports: Engage students in sports and physical activity to ensure healthy physical and mental growth.

5 Academic Calender

	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	
	Academic Calendar - September 2021 to January 2022	
	BTech S7, BArch S7 & S9, BHMCT S7, MCA S5, Int MCA S5,S7&S9, Evng Tri Sem MBA S7	
Events		
Sl. No.	Intermediate Semester(2021)	Important Dates
1	Commencement of classes and registration (BArch S9, MCA S5,Int MCA S5,S7&S9)	01-Sep
	Commencement of Training (BArch S7)	06-Sep
	Commencement of classes and registration (MBA Evng S7)	08-Sep
	Commencement of classes and registration (BHMCT S7)	13-Sep
	Commencement of classes (BTech S7)	27-Sep
2	Course selection, reg and mapping	Oct 18 - Oct 25
3	CC Meetings	Oct 12, Nov 15 ,Dec 10
4	First Series Test to be Completed (BArch S9, BHMCT S7, MCA S5 ,Int MCA S5,S7&S9, Evening Tri Sem MBA S7)	29-Oct
	First Series Test to be Completed(BTech S7)	10-Nov
	First Monthly Report (BArch S7)	21-Oct
5	Exam Registration	Nov 12 - Nov 18
6	Second Monthly Report (BArch S7)	29-Nov
7	Second Series Test to be Completed (BHMCT S7, Evening MBA S7)	24-Nov
8	Publish IA Marks (BHMCT S7)	26-Nov
9	Class ends Publish Attendance (BHMCT S7)	27-Nov
10	Publish IA Marks (MBA Evening S7)	30-Nov
11	Class ends Publish Attendance (Evening MBA S7)	01-Dec
12	End Semester Examination (BHMCT S7)	04-Dec
13	Second Series Test to be Completed (MCA S5 ,Int MCA S5,S7&S9, BArch S9)	08-Dec
14	End Sem Exam Starts (Evening MBA S7)	13-Dec
15	Publish IA Marks (MCA S5 ,Int MCA S5,S7&S9, BArch S9)	15-Dec
16	Class ends Publish Attendance (MCA S5 ,Int MCA S5,S7&S9, BArch S9)	17-Dec
17	End Sem Exam Starts (MCA S5 ,Int MCA S5,S7&S9, BArch S9)	27-Dec
18	Second Series Test to be Completed (BTech S7)	31-Dec
19	Publish IA Marks (BTech S7)	11-Jan
20	Class ends Publish Attendance (BTech S7)	12-Jan
21	Third Monthly Report (BArch S7)	13-Jan

22	Training End for BArch S7	18-Jan
23	Submission of all documents related to training BArch S7	21-Jan
24	End Sem Exam Starts (BTech S7)	24-Jan
25	Completion of Evaluation of Training BArch S7	28-Jan
26	Publish Marks for Training BArch S7	29-Jan

Revised KTU Calender

Programme	Current Status	Commencement of Classes (Existing)	Commencement of Classes (Revised)
S5 B.Tech/ S3 BHMCT	ESE of B.Tech S4/ BHMCT S2 till 15 Nov	15/11/2021	18/11/2021
S5 B.Arch	No change in ESE	15/11/2021	15/11/2021
S3 MCA, Int MCA, MBA	ESE of S2 MBA till 12 Nov, No change in S3 MCA, Int MCA ESE	15/11/2021	15/11/2021
S3 M.Tech, M.Arch, M.Plan	No change in ESE	15/11/2021	15/11/2021
S3 B.Tech/B.Arch	ESE of S2 till 11 Nov	08/11/2021	15/11/2021
S3 B.Des	No change in ESE	08/11/2021	08/11/2021

6 Staff Directory

6.1 Department of Civil Engineering

6.1.1 Teaching Staff

S I N o	KTU ID	Name & Designation	Qualification		Mobile No.	Contact Address & E-mail ID
			MTech specialization	PhD Division &Field of specialisation		
1	KTU- F10195	Dr. Rajesh K. N. Associate Professor	Structural Engineering	PhD (Structural Engineering)	8547004911	'Solace' mangad knrajesh74@ gcek.ac.in
2	KTU- F15157	Dr. Mitra D. C. Associate Professor	Structural Engineering	PhD (Civil Structural Engineering)	9447750226	North thyvila house Residents Association Numbe r C-36 TC 25/2150,thyvila Road Thampanoor, , 695001 mitradc@yahoo.com
3	KTU- F20207	Dr. Rajeevan B. Associate Professor	Structural Engineering	Civil Engineering Structural Engineering	9495333088	Bavukkatt House PO Morazha, (Via) Mottammal Kannur Dist Kerala 670331 rajeevan@gcek.ac.in
4	KTU- F10199	Dr. Vandana Sreedharan Assistant Professor	Geotechnical Engineering	PhD (Geotechnial Engineering) PostDoc (Geotechnical Engineering)	8281750864	Sreyas Pallikkunnu Kannur-4 vandu.sreedharan@ gmail.com
5	KTU- F20208	Prof. Saji K. P. Assistant Professor	Structural Engineering		9387021080	Chithira Kizhuthally east, Thazhechovva. P.O, Kannur-18 kpsaji@gcek.ac.in
6	KTU- F20090	Prof. Narayanan N. I. Assistant Professor	Structural Engineering		9447238423	Neerngattllam Vilayancode (PO) Kannur-670504 ninnamboodiri@ gmail.com
7	KTU- F41306	Prof. Deepika K. K. Assistant Professor			9188335234	Rajivam Railway station Road Mahe 673315 deepi_kk@ yahoo.com

8	KTU-F37552	Dr. Deepu S. P. Assistant Professor	Structural Engineering	PhD (Structural Engineering)	9880166402	Indudeepam T.C.8/525(1) Odankuzhy Road Thirumala PO., Trivandrum 695006 deepusp@gmail.com
9	KTU-F25128	Prof. Dhanya Raveendran Assistant Professor	Environmental Geotechnology		9497301071	Chanrakantham, near vanivilasam school, PO chovva kannur-670006 dhanyaraveendran@gcek.ac.in
10	KTU-F38126	Prof. Shreesh Ajaykumar Assistant Professor	Soil Mechanics and Foundation Engineering		9497300207	Shivashree, Dharmadam (P.O) Thalassery Kannur, 670106 shreeshajaykumar@gmail.com
11	KTU-F38554	Prof. Nijesh C. Assistant Professor	Structural Engineering		9747374682	Ganga, AKG Nagar Kayaralam (PO) Mayyil (VIA) Kannur 670602 nijesh@gcek.ac.in
12	KTU-F10312	Prof. Manu P. Raj Assistant Professor	Structural Engineering		9447817760	Tmc 13/213, Court road s/o Rajankutty P R Taliparamba kannur-670141 manupraj@gcek.ac.in
13	KTU-F8847	Prof. Greeshma B. Nair Assistant Professor	Remote Sensing		8129097122	Kottilakam Kallettumkadavu Ramanthali PO Kannur Dt, Kerala-670308 gbn19@gcek.ac.in
14	KTU-F41960	Prof. Smrithi A. Assistant Professor (Adhoc)	Soil Mechanics and Foundation Engineering		9633954686	Ambalatharapullur post Kasaragod 671531 smrithia@gcek.ac.in
15	KTU-F41948	Prof. Smrithi Sohan Assistant Professor (Adhoc)	Structural Engineering		9497297808	Santhi Sadan Mowancheri Post Kannur- 670613 smrithisohan@gcek.ac.in
16	KTU-F40654	Prof. Shipin Prakash Assistant Professor (Adhoc)	Construction technology and management		9744907229	Keerthanam Thankekunnu PO Attadappa, Kannur- 670006 prakashshipi@gmail.com

17	KTU-F41984	Prof. Rithuparna R. Assistant Professor (Adhoc)	Structural Engineering		8129074745	Vaishnavam mora 44 maradu PO Kochi, kerala-682304 contact.rithuparna@gmail.com
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6.1.2 Technical Staff

Sl No.	Name& Designation	Contact Address .& E-mail ID	Mobile No	Qualification
1	Ms. Smitha K. Instructor II	Dwaraka PO Chovva Kannur670006 smithachovva6@gmail	7012613565	Diploma & BTech in Civil Engineering
2	Mr. Praveen C. Trade Instructor	Chalil house PO Edayannore Panayathamparamba, Kannur praveencyours@gcek.ac.in	9495695733	Diploma in Civil Engineering
3	Ms. Sreelatha N. K. TradeInstructor	Chelarimadam PO Karivellur Kannur dis 670521 sreelathank1@gmail.com	9947086657	ITI plumbing
4	Ms. Bindu P. Trade Instructor	Panikkarayil house PO Palisade, Andaloor bindubalann@gmail.com	9400104764	ITI Survey
5	Mr. Suresh M. K. Trade Instructor	Thazhemaravayal house, Kottathara PO, wayanad mksuresh320@gmail.com	9961209714	ITI Plumbing
6	Mr. Lijith Tradesman	Kunnumpurathuveedu Ponganadu, Kilimanoor Trivandrum	9447003636	Degree, ITI plumbing

6.2 Department of Mechanical Engineering

6.2.1 Teaching Staff

Sl No	KTU ID	Name& Designation	Qualification		Mobile No.	Contact Address & E-mail ID
			MTech specialisation	PhD Division &Field of specialization		
1	KTU-F21616	Dr. Mahesh Kumar P. Professor	Thermal Sciences	Heat Pipes	8075161822	Puthalath house, K Kannapuram POST Cherukunnu, Kannur Kerala 670301 nandumahesh03@gcek.ac.in

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6.3 Department of Electrical and Electronics Engineering

6.3.1 Teaching Staff

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6.4 Department of Electronics & Communication Engineering

6.4.1 Teaching Staff

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12	KTU-F23719	Prof. Mridula T. V. Assistant Professor	Computer and Information Science	9496502625	Keenakode Vayalil Makkada, Kakkodi Calicut-673611 tvmridula@gmail.com

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6.6 Department of Applied Sciences

6.6.1 Teaching Staff

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6.7 Department of Mathematics

6.7.1 Teaching Staff

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6.8 Department of Physical Education

6.8.1 Teaching Staff

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6.9 Administrative Staff

6.9.1 Principal Office Staff

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25	Ms. Sarojini E.	PTS	GCEK, Mangattuparamba Parassinikadavu PO Kannur, Kerala 670563	
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6.10 College Hostel Staff

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6.11 College Library Staff

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6.13 College Co-Operative Store Staff

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6.14 Centre for Continuing Education

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APPENDIX A

HOSTEL RULES & REGULATIONS

To cater to the requirements of the students of GCE Kannur, three separate Ladies hostels and two Men's hostels are functioning in the premises of GCEK. The intake is 150,130 and 130 each in Ladies hostels and 150 and 180 each in Mens Hostels. All inmates of the hostels are to sign a declaration that they will abide by certain rules and regulations set by the college and follow it to the best interest of the institution.

1. General

- a) The hostels being a part of the academic premises deserve a sacred status. Hostel Residents are expected to display acceptable form of behaviour and maintain discipline and decorum everywhere in general, in and around the hostel complex, always. Like any other students, hostellers are expected to perform well in academics.
- b) The warden will have power to frame standing orders to regulate internal matters and other things not explicitly covered by these rules. The hostel shall be under the direct control of the warden and warden's decisions shall be final in interpreting rules in all matters connected with the hostel.
- c) Assistant warden and resident tutors appointed by the principal, shall assist the warden in exercising disciplinary control over the boarders. The Assistant warden/Resident tutor will be incharge of the current duties of the warden in the absence of the warden.
- d) All the correspondence regarding the hostel should be addressed to the warden.

2. Admission

- a) Admission to the hostel is confined to the students of Govt. College of Engg Kannur.
- b) Hostel admission is through the application submitted to the hostel office. Hard copy of the application, verified by group tutor and recommended by HOD concerned should be submitted to the hostel office. Selection of the students to the hostel will be as per the rules and regulations stipulated by the Director of Technical Education/ Government from time to time. As per the Government direction, admission to the hostel is for an year and each year, eligible students are to submit fresh application to the hostel office for preparing the select list.
- c) Selection of students for admission to the hostel will be made by the warden with the help of the Asst. Warden, Resident tutors, and hostel office staff. Provisional list will be published in the notice board (Hostel and college office) and college web site. Selected students will have to appear along with parent/guardian for admission.
- d) Selected students have to pay admission fee of Rs.25/- along with the 2 months rent

advance. The present room rent is Rs.200/- per month, including establishment, current and water charges, which will be revised from time to time subject to the Govt. orders.

- e) Each student on admission shall pay Rs.4000/(For SC/ST students Rs 1000) as caution deposit, refundable only at the time of leaving the hostel after deducting liabilities, if any. The deposit will be enhanced from the time to time according to the necessity.

3. Allotment, Possession and Vacating the Rooms

- a) Rooms will be allotted at the discretion of the warden. Students must occupy rooms allotted to them only. They are not allowed to change rooms without written permission of the Warden. Rooms once allotted will not be interchanged during the academic year. Change of accommodation from one hostel to another is generally not permitted during an academic year.
- b) The rooms allotted to the students at the time of admission are for a limited period of up to one year or less. If a student fails to occupy the allotted room within a specified time, it will be cancelled. Students will forfeit their rooms if they fail to clear all their dues to the hostel by the given day. In such cases, they will be asked to vacate the hostel.
- c) If a student is found to be continuously absent in the hostel for more than 15 days without sighting proper reasons, the hostel authorities will direct the student to vacate the hostel to accommodate applicants in the wait list. Also, if a student is abstaining from the classes and staying in the hostel without intimation to the authorities, appropriate action will be taken against such students.
- d) Furniture's are allotted to the students at the time of room allotment. Each student has to inspect the furniture and sign a receipt for the same. Inmates will be responsible for the furniture and other items in the room issued in their name and for the goodworking of the electrical and mechanical fittings in the room. The issued furniture's and materials are non transferable. The student may bring other articles only with the written permission of the warden.
- e) Students should obtain clearance certificate from the steward/sergeant/matron while vacating the room.
- f) Once a student vacates the hostel, he/she will not be re-allotted hostel accommodation for a minimum period of sixmonths. Every attempt will be made to provide hostel accom-
-modation to the deserving students subjected to the availability and following the existing norms. Residents who wish to vacate the hostel are to meet the steward and warden to start with the formalities. Permission of the parents and HODs along with certain documentation is mandatory. The refund rules while vacating rooms are as decided by the hostel committee from time to time.

4. Mess

- a) All inmates are automatically members of the hostel mess and they have to register their names in any one of the mess.
- b) Vegetarian and non vegetarian foods are available in the mess.
- c) Hostel committee will be formed each year. This body consists of warden, resident tutors, steward, hostel office representatives such as hostel chairman and mess secretaries who are inmates of the hostel, matron and nominated representatives from each block of the hostel by the warden.
- d) From the hostel council members, hostel chairman for the year and mess secretaries for each month will be nominated. Mess chairman and mess secretaries will preferably be the pre-final year students. They will be responsible for the proper functioning of the mess for the month. If at any time there is no mess secretaries, the warden shall have the power to make necessary arrangements to run the mess until the mess secretary is nominated.
- e) Sick diet will be provided on request for the students who are ill.
- f) Students are not permitted to carry away food items from the mess hall. Each inmate should ensure that the Food waste is a minimum. Food wastes if any should be deposited in waste bin kept for the purpose.
- g) The boarding charges shall not be reduced, unless the mess cut application is submitted to the warden. Mess cut is limited to $1/3^{\text{rd}}$ of the mess working days in a month. Minimum period for mess cut will be 2 days. Written application should be submitted 2 days before the date and the same should be noted in the register maintained in the mess.
- h) Boarder's attendance list will be published. Any discrepancy can be pointed out for correction before the statement of mess dues is published. Complaints after the publication of mess dues shall not be considered.
- i) Mess charges will be divided proportionally among the members and published on notice board.
- j) For the conduct of student mess, items for each hostel can be purchased separately following the existing purchase rules. Items should be purchased from genuine vendors monthly or as per the requirement. Each mess secretaries designated should prepare a menu before the month and intimate the stores requirement to the hostel office. The menu should be approved by the hostel committee before placing the purchase orders. Steward and hostel chairman should ensure the quantity and quality of the items purchased before transferring the items to the store. Mess secretaries should note down the details of the items purchased every day and wherever possible, purchase bills should be collected in the same day.

- k) Any of the Mess secretary is required to weigh and issue the items to the cooking staffs for preparing the food. The quantity issued to be noted in the daily register. The balance items, if any during the end of the month, can be transferred to the stock of the succeeding month. But the mess management should ensure that the quantity thus transferred is a minimum.
- l) Food items should be served hot and in time. The timings for breakfast, lunch, evening tea and dinner should be fixed by the hostel committee and followed. In unavoidable circumstances, room mates can be authorized to collect the late food which should be kept and taken from mess hall itself. The practice of preparing the food in advance and keeping it for use later is highly discouraged.
- m) Statement of Mess dues shall be published on notice board and will be available in the inmates' portal. For this, the original genuine purchase bills duly verified and signed by the mess secretaries, steward and the head Accountant should be submitted to the Accounts Officer for verification, without delay in the first week of the succeeding month.
- n) Mess dues for a month should be published by 12th of the succeeding months. All the bills and vouchers and the mess calculations should be published in the hostel web site and will be available in the campus management portal of the inmates and their parents.

5. Guests

- a) Guest Accommodation is highly discouraged in the hostels. However, if a student or parents of a student is badly in need of accommodation, they can be accommodated and adjusted in the room of the student without causing difficulties to the co-inmates. The inmate who introduces the guest is responsible for all the dues incurred by the guest. Guest charges fixed from time to time will be applicable.
- b) Inmates are not allowed to bring guests into the hostel without the permission of the warden. Allocation of accommodation will be subject to the availability of accommodation facilities in the guest room/inmate's room.
- c) Guests will be charged Rs.30/- as room rent per day exclusive of mess charges. If a day's scholar is the student guest, he/she shall not be permitted to stay in the hostel for more than 10 days continuously, unless under special circumstances with the prior sanction of the warden. For parents, guest accommodation cannot be given for more than a day.
- d) All guests have to take food from the mess at a rate fixed from time to time, which will be above the normal rate of mess per day, subject to the availability of food.
- e) No member may introduce more than one guest at a time without the prior sanction of the warden. The guest shall not be transferred from one inmate to another.
- f) The guests are subjected to rules and regulations of the hostel.
- g) The warden has power to refuse permission to guest without assigning any reason.

- h) Any inmate aiding entry of unauthorized person will be punished. Those inmates are liable to a fine of Rs.300/per day and it will be reported to the Principal.

6. Payment of hostel charges

- i) The dues will be collected on all working days from 10.a.m to 1.p.m. The payment of the hostel dues after the date of publication of mess charges is regulated as given below:

1.First 15 working days: without fine.

2.Fine Rs.10/day afterwards

All payment can be done by the inmates and parents digitally through the online facility available in the campus management portal. If the mess dues with fine are not remitted within 25 days from the publication of mess dues, the name of the boarder will be struck off from the rolls. Such removed student will be readmitted only with the permission of the warden, after paying the mess dues plus all fines with a penalty, fine of Rs.5/day from 26th day till the remittance of the dues.

- j) Students leaving the hostel for vacation should pay all their dues before they leave the station.
- k) Room rent has to be paid in advance by the 6th of the month and at the time of admission itself for newly admitted students. All students can pay the mess bill advance so that the mess charges can be adjusted from the advance.
- l) An inmate who completed the course/discontinued the course should vacate the hostel immediately after clearing the dues and report the date of leaving in writing to the Sergeant and hostel office.

6. Medical aid

Inmates of the hostel can avail treatment by the doctor in the neighboring area in case of ordinary ailments. In case of serious or infectious disease, the guardian of the inmate will be informed and requested to take charge.

7. General discipline

- a) Inmates should keep their rooms and premises of the hostel clean. The doors, rooms, walls etc. should not be disfigured by writing, sticking papers/ posters etc. Dust bins should be used for disposing the wastes. Any damage/breakage to hostel property will be charged to the occupants of the room/ block with a fine.

Disciplinary action will also be initiated

- b) Ragging is considered as punishable offense as per F.No. 37-3/Legal/AICTE/2009 regulations. Students should abstain from committing ragging or such offenses as no leniency will be shown to any student found guilty. Ragging in any form is strictly prohibited if someone found guilty, severe action will be taken.

- c) Activities likely to disturb other inmates in the hostel should be avoided. Playing of loud music or disturbing fellow hostel inmates will not be permitted. Students using computers/laptops are not permitted to use multimedia speakers. Violation of this will be viewed seriously. Use earphones while listening to music. Playing outdoor games inside the hostels/corridors is not permitted. Silence Hours will be observed from 9p.m. to 07 a.m. on all days. No noise of any sort will be permitted during the Silence Hours. Serious action will be taken on the breach of this rule.
- d) No student will normally be allowed to stay out the hostel after 9.30pm except with special permission of the warden. Hostel Gates will be closed at 9.30pm and thereafter the entry and exit from the hostel till 6 am is through special permission from the warden/resident tutors. Students, who wish to leave the campus temporarily or otherwise, should obtain the permission of the warden in writing. The application for permission must state, the date and time of his/her intended departure and return, as well as the destination. All these details are to be entered in the in-out register maintained in every hostel and to be signed by the inmates and permitting authority. Girl students leaving the hostel after 6.30am should also mark their movement in the register duly countersigned by the Matron/RTs.
- e) Outsiders other than those who are authorized by the warden are prohibited from entering the hostel. Possession, distribution and/or consumption of alcoholic beverages, prohibited drugs, any form of narcotics, chewable tobacco, gambling in hostel is a serious offence and is strictly prohibited in hostels. Student should not consume alcohol outside and enter into the campus. Smoking is strictly prohibited in the hostel and Academic campus. Non-compliance shall lead to strict disciplinary action and legal authorities shall be informed of violations. (Equally applicable to hostel staffs and visitors)
- g) Residents are discouraged to move to another's room and disturb the inmates. Inmates are not allowed to study and sleep in others room. Combined study, if any should be conducted in the common rooms/common area. Misbehavior of inmates can be reported confidently by the inmates or their parents' directly or by email. Complaints of these kinds will be investigated and action taken accordingly. All hostel inmates must report any disciplinary matter or problems concerning them or their room-mate/neighbor (s) coming to their notice to the Warden/ RTs directly or through their parents. In case their roommate is absent from the room or is sick/ admitted in the hospital or is in any kind of physical/mental trouble or is indulging in any bad practices the same must be immediately brought to the notice of the Warden/RTs or hostel authorities as above.
- h) Details of absence from the hostel must be entered in the movement register. Absence from

the hostel for more than 2 days must be reported to the warden/sergeant/matron.

- i) Students are strictly warned not to use /stock intoxicating drinks or other such materials in the hostel. Possession, distribution and/or consumption of alcoholic beverages, prohibited drugs, any form of narcotics, chewable tobacco, gambling in hostel is a serious offence and is strictly prohibited in hostels. Student should not consume alcohol outside and enter into the campus. Smoking is strictly prohibited in the hostel and Academic campus. Non-compliance shall lead to strict disciplinary action and legal authorities shall be informed of violations. (Equally applicable to hostel staffs and visitors)
- j) Students are not permitted to use other electrical equipment's such as heater, iron box etc. inside their rooms.

All are to join the hostel mess and take food from the mess. Cooking food inside the rooms is strictly prohibited and if such cases are noticed, the inmates of the room will immediately expelled from the hostel.

- k) Pets of all kinds are prohibited inside the hostel. Feeding stray dogs or cats in the hostel premises is not permitted.
- l) Inmates are advised not to keep large amount of cash or valuables in the room. The students are responsible for his/ her belongings inside the room. Insurance of Laptops/ Valuables is the responsibility of the Hostel residents. All residents must take care of their ATM/ Debit cards. Students should lock the rooms so as to keep their valuables safely and the hostel administration will not entertain complaints regarding theft of Lap Tops, Cell Phones, Cash and jewellery.
- m) Circulars, subscription lists etc. shall not be circulated among students without prior permission from the warden. All official instructions/ notices displayed on noticeboards in the hostels will be deemed to have been read by all residents and excuses for non-compliance of rules and instructions put up from time to time will not be accepted.
- n) Fire Hazards and Safety: Candles and incense are a fire hazard and are not permitted in the hostels. Combustible materials such as gasoline, paint thinner and oil lamps are not permitted as well. Bursting crackers, carrying crackers to the rooms and lighting of lamps/candles are strictly always prohibited in and around the hostel premises. Inmates should turn off the lights, fans, water taps and electrical appliances including mosquito repelling machines, if any, while leaving their rooms/common rooms. This is necessary to reduce power consumption and to avoid inadvertent fire. In case of fire, residents must raise an alarm and call the hostel Security.
- o) Warden or his representative may enter any room for verification at any time of the day or night. The college authorities reserve the right to break open the rooms in case of

violations of hostel rules, suspected unlawful activities and security risk cases or where the student is absent from his room for a long period without prior information or any valid reason. This will be carried out by the security personnel in the presence of the hostel Warden and at the discretion of the Warden. The items in the room will be listed by these officials and kept in the store room. A verbal report, followed by a written report will be sent to the higher authorities.

- p) Proxy or dummy roommates are forbidden. Strict action will be taken if accommodation is held as proxy. They are liable to be removed from the hostel. Residents are not permitted to allow their rooms to be used by others. All visitors and non-residents including students from other hostels must leave the hostel/ other student's rooms during nights. No unauthorized person will be allowed to enter or stay in the hostel premises. If the residents happen to find any such person, they should demand the permit/ Identity Card. And if it is not forthcoming, the matter should immediately be brought to the notice of the Warden/RTs.
- q) Televisions are not permitted in the hostel rooms. Television is provided in the common TV rooms/ Mess Halls in every hostel.
- r) Giving the room keys to any person in good faith is at their own risk. The residents must lock the rooms and their lockers with their own locks.
- s) If any complaint is received from Hostel inmates or from the public to the Head of the Institution about the misbehavior of students and about activities like keeping weapons, consuming alcohol, using Panparag, drugs in campus/hostel rooms etc., steps will be taken as per the rules in force.
- t) Bike race/ motor car race/elephant procession or similar activities should not be permitted inside the Campus Hostels. Students are strictly forbidden from possessing weapons of any sort.
- u) CCTV Cameras will be installed in selected common places such as Entrance and Exit gates of the College and Hostel. No. type of vehicles should be used during celebrations inside the Hostels.
- v) Inorder to monitor and supervise the functioning of the Hostels, separate committees for boys' and girls' hostels have to be constituted by the College Council with five members. The Head of the Institution shall be the Chairman/Chairperson and Hostel Warden the Convener. The inmates are expected to behave politely with institute and hostel authorities, hostel employees and fellow students.) Visiting hours for parents and relatives in the hostel block is from 7 am to 6.30 pm.
- w) Students are expected to use the college bus facilities for to and fro commutation between Men's

hostel and college. Student's vehicles are highly discouraged and if the student wishes to use the motor vehicles, they should submit a request for the same in the prescribed format along with the attested copies of the Vehicle Registration certificate, insurance and driving license of the inmate. On verification, college will issue a pass for using the vehicle till the expiry date of vehicle registration, Insurance registration or license or for a period of one year whichever is earlier. Student's vehicles will be allowed only up to the designated parking area in the hostel and the college. Entry beyond that point is strictly prohibited. The College authorities will provide security for the vehicles parked in the college parking area during working hours. Inmates are to take all security measures as insisted by the Motor vehicles department while using the vehicles. Else, the permission for using the vehicles will be suspended and won't be reviewed further.

- x) The Principal/Warden reserves the right to break open any room which is not vacated, pack up the belongings and store it. No complaints of breakage or loss will be entertained. Warden can also break open the rooms in case of any violation of hostel rules, suspected unlawful activities or based on security risk perceived.
- y) Misconduct or infringements of rules & regulations and activities which are not in the interest of the institution and harmful to the reputation of the institution will make a student liable for severe disciplinary action and even expulsion from the hostel & College.

8. Holidays

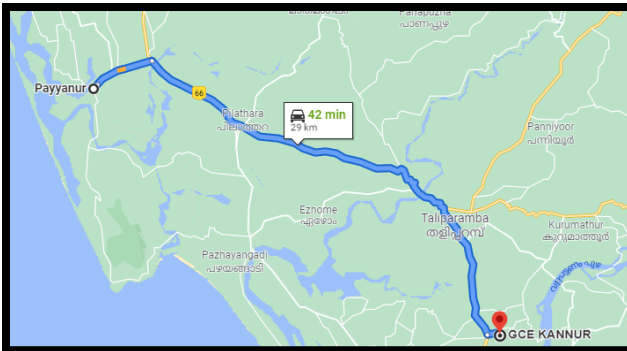
- a) During Onam, Christmas, and summer vacation holidays the hostel will normally be closed. However, the warden will consider applications of boarders for staying in the hostel during holidays.

APPENDIX B BUS ROUTE

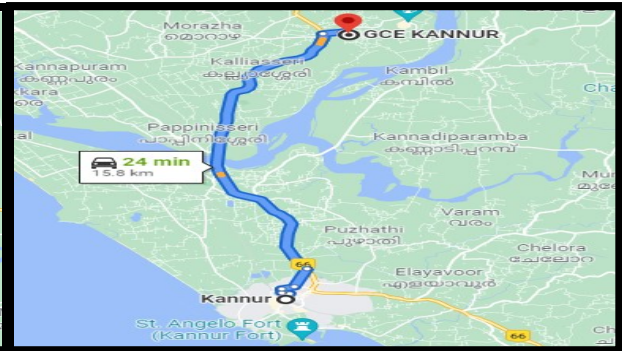
To Kannur	Route	Time (Morning)	Time (Evening)	No. of Buses
	Caltex via Kambil to College	8.00 AM	4.15 PM	1
	Caltex Plaza via Puthiyatheru to College	8.10 AM	4.15 PM	2
	Kannur Railway Kizhakke kavadam to College	8.15 AM	4.15 PM	1
To Payyanur	Route	Time (Morning)	Time (Evening)	No. of Buses
	Perumba via Pazhayangadi to College	7.55 AM	4.15 PM	1
	Central Bazar via Taliparamaba to College	8.00 AM	4.15 PM	1
	Perumba via Taliparamaba to College	8.05 AM	4.15 PM	1

APPENDIX C LOCATION

GCE Kannur is situated approximately 16 km north from Kannur city and 29 km from Payyanur on the Kannur - Mangalore National Highway 66. The nearest air connectivity is by Kannur international airport which is nearly 35 km far from the college. Kannapuram railway station, which is the nearest one is about 7km far from the college.



Route map from Payyanur to GCEK



Route map from Kannur to GCEK

ANNEXURE I
Declaration of code of conduct

I (full name of student).....Son/ Daughter of
Mr/Mrs/Ms.....and a Student
of.....Branch at Govt. College of
Engineering, Kannur hereby declare that I have carefully read and fully understood the
Student Discipline Regulations framed by the Discipline Committee of GCE, Kannur and will
follow the regulations and uphold strict discipline throughout my course of study in GCE,
Kannur. I further affirm that in case the above declaration is found to be untrue at any time or any
of the conditions is not fulfilled or violated by me during my course of study in GCE, Kannur.
I am aware that the College administration has every right to take disciplinary action against
me including expelling me from the college.

Signed on theday of.....month
.....year

Signature of student:

Name :

GCE KANNUR



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