

## PRIMARY DETAILS OF COLLEGE

- **Name of the college** : COLLEGE OF ENGINEERING PERUMON
- It is owned by CAPE (Co- operative Academy of Professional Education, Estd. by Govt. of Kerala)
- **Location / Address** : Perumon, Perinad P.O, Kollam District, Kerala State, India, Pin- 691601
- **Contact Details** : Ph : 0474 - 2550500, Fax : 0474 - 2550400, web : [www.perumonec.ac.in](http://www.perumonec.ac.in), E-mail ID : principal@perumonec.ac.in
- **Vision of the College** : An institution of global stature to excel in technical education, research and development for molding engineers to lead a competitive professional environment.
- **Mission of the College** : To mold quality engineers by providing them with fundamental knowledge, analytical skills, creativity, innovation, integrity and ethics to suit the needs of society. To prepare engineers globally competent in technical and leadership skills to solve increasingly challenging technological problems for the betterment of the community.
- **Departments / Streams / Branches** : 1. Computer Science and Engineering, 2. Mechanical Engineering, 3. Electrical and Electronics Engineering, 4. Electronics and Communication Engineering.
- **Programmes offered/ courses offered** : B.Tech, M.Tech
- **University / Affiliated to University** : Kerala Technological University
- The present Principal of the college is Dr. Rajeesh. J

## CO-OPERATIVE ACADEMY OF PROFESSIONAL EDUCATION (CAPE)

The Co-operative Academy of Professional Education (Kerala) was formed to establish Educational Institutions in various professional fields to provide facilities for Education and Training. The Co-operative Academy of Professional Education is promoted by the Co-operation Department of the Government of Kerala and is an autonomous society under Government of Kerala. The Society is registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Act, 1955 on the basis of the Memorandum of Association and the Rules as approved by the Government of Kerala. The Ex-officio Chairman of the Society - Shri. Pinarayi Vijayan The Hon'ble Chief Minister of Kerala. The Ex-officio Vice Chairman of the Society - Shri. V.N. Vasavan Hon'ble Minister for Co-operation & Registration. Chairman of the Board of Governors - Dr. Thajudin Ahamed V I. Director, CAPE, Dr. S. Jayakumar - Joint Director, CAPE. The members of the Society includes, amongst others, the Secretary to Government (Cooperation), Director of Technical Education, Director of Medical Education, Registrar of Cooperative Societies, Presidents of Kerala State and District Co-operative Banks, eminent experts in Technical and Medical Education and industrialists. The governance of the CAPE is vested with an Executive Committee headed by the Hon'ble Minister for Cooperation, Khadi and Village Industries. The establishment of our first institution was in the year 1999-2000 followed by five Engineering colleges and a Medical college in 2000-2001. The first institution started was College of Engineering, Vadakara (Formerly Co-operative Institute of Technology Vadakara), the others were College of Engineering Perumon, College of Engineering Trikaripur, College of Engineering Thalassery, College of Engineering Kidangoor, Cochin Medical College (Formerly

Co-operative Medical College Kochi). These Engineering colleges are affiliated to the Kerala Technological University (KTU). The College of Engineering & Management Punnappra was started during the academic year 2008 at Punnappra in Alleppey district which is affiliated to Kerala Technological University. As per the G.O(MS) No.488/2013/ H & FWD dated 17-12-2013, the Government of Kerala took over the possession of Cochin Medical College, Kochi and brought it under the control of DME. Professionally executed, all the Engineering Colleges are fully established with sprawling campuses of over 25 acres, well equipped labs and workshop, well stocked library, highly qualified and experienced faculty, career guidance and placement cell and transport facilities. The overwhelming public response to its educational mission has inspired CAPE to present to the community its business school, the Institute of Management and Technology (IMT) at Punnappra which is affiliated to Kerala University. The first batch of MBA students were admitted during the academic year 2009-2010. The CAPE finishing school, Kerala Institute of Making The Best (KIMB) also started at Punnappra which is going to be the best finishing school in Kerala. College of Engineering Pathanapuram started in the year 2011, College of Engineering Aranmula in 2014 and College of Engineering Muttathara in Thiruvananthapuram city started in 2016. The Inauguration ceremony of College of Engineering Muttathara was done by the then Hon'ble Chief Minister of Kerala, Shri. Oommen Chandy on 16.02.2016. Recently CAPE has started new Polytechnic and Nursing Colleges to maneuver with diverse technologies for molding students in the competent world.

## COLLEGE OF ENGINEERING PERUMON

- **INTRODUCTION** : College of Engineering Perumon, Kollam is one of the Government sponsored self-financing engineering colleges managed by the Co-operative Academy of Professional Education Kerala (CAPE Kerala) Society which was established by the Govt. of Kerala. Started in the academic year 2000-2001, the college now offers the following UG and PG courses in various disciplines.
- **Four Year B.Tech UG courses** in 1. Electronics and Communication Engineering (120 Seats) 2. Electrical and Electronics Engineering (60 Seats ( Capacity ) ) 3. Computer Science and Engineering (120 Seats) 4. Mechanical Engineering (60 Seats) The college is affiliated to the Kerala Technological University (KTU) and is approved by the All India Council for Technical Education (AICTE), Delhi. It is under the administrative control of CAPE Kerala. Prof. (Dr.) F.V. Albin was the first Principal, followed by Prof. (Dr.) K.S.Ramakrishnan, followed by Prof. (Dr.) Shaji Senadhipan, Prof ( Dr). Z.A. Zoya and Prof. (Dr.) Bindu S J. The present Principal is Dr. Rajeesh. J.
- **About Location and Place** : The college is located in a vast area on the banks of Ashtamudi lake with a picturesque and serene ambience at Perumon, in Panayam Panchayath in Kollam District. The college is about 12 km from the K.S.R.T.C Kollam bus stand and 13 km from the Kollam Railway junction. The nearest airport is Trivandrum international air-port, about 78 km from the college
- **History / Past of the College** : This college was established on 25 acres of the land donated by the Govt.of Kerala. The foundation stone was laid in 2000 by Sri. E.K.Nayanar, then Chief Minister of Kerala. Initially the college was functioning in

temporary buildings at Kundara. Within two years, construction of the buildings was

completed and regular work was shifted to the present campus. The former Minister for Co-operation, Sri.M.V.Raghavan inaugurated the college buildings in Feb, 2004. The buildings now have a total built up area of about 13500 sqm. About 1400 students and 120 staff are there in the roll now.

- Our college has been selected for the implementation of the Technical Education quality Improvement Programme (TEQIP - Phase II), a centrally sponsored scheme under the MHRD, Govt. of India. A grant-in-aid to a maximum of 10 crores were granted to this institute to implement this programme which spans over 2011-15 for strengthening the institution to improve the quality of the educational outcomes. The grant is borne by the central and state Governments in the proportion 3:1.
- College Achievements : Our college is said to flourish when the faculty and students produce outputs that are visible. We honor the achievements, who have excelled in their attempt and we are extremely proud of their success. We create learning and working environments that encourage you to reach your potential and discover your unique purpose. ♦ NBA Accredited status (2018-25) - B.Tech Electrical & Electronics Engineering AND B. Tech Electronics & Communication Engineering. ♦ NBA Accredited status (2023-26) - B.Tech Computer Science and Engineering and B.Tech Mechanical Engineering ♦ NBA Accredited status(2018-25) - B.Tech Electrical & Electronics Engineering AND B.Tech Electronics & Communication Engineering. ♦ NCC Naval unit introduced the year 2020. We are one among the three pioneer Engineering colleges with the unit in the state. Prof.Ajith Aloysius, Faculty in ECE department – commissioned as Sub Lieutenant in NCC Navy, Associate NCC Officer. ♦ Organized three international conferences, ten national conferences and two national symposiums by various departments (2018- 22) ♦ Authorized training center for ASAP (Additional Skill Acquisition Program) courses with well equipped high-tech air conditioned laboratory cum class room. ♦ Skill and Knowledge Development Centre(SKDC) for elevating students' skills to global standards inaugurated on 9-5-2022 and distribution of laptops to address the digital divide scheme of APJKTU in the technical education sector by MLA, Sri Mukesh. ♦ Institution is selected for “AICTE DISTINGUISHED CHAIR PROFESSOR”. Dr.Anil Kakodkar, former Chairman of Atomic Energy Commission and Director of Bhabha Atomic Research Centre is nominated as Distinguished Chair Professor for our Institution(2021-22). College of Engineering Perumon 11 Information Bulletin 2023-24 ♦ Received an amount of Rs. 19.23 lakh for MODROB “E-Mobility Lab” by AICTE. ♦ Achieved a Patent for the invention of “RFID based smart Library Systems” for a period of 20 years , by students under the guidance of Prof. Sivathanu.L , AP in ECE (Date of Grant: 05-07-2021). ♦ Online Faculty Development Program on “Research Trends in Design and Control of Electric Vehicles” from 17 to 21 January 2022 for an amount of Rs.93,000 submitted by EEE Department under AICTE Training and Learning (ATAL) Academy has been successfully completed. ♦ Startup launched: ‘VOXPOU’ under Innovation and Entrepreneurship Development Centre (IEDC) ,CE Perumon ♦ Online Faculty Development Program on “Research Trends in Design and Control of Electric Vehicles” from 17 to 21 January 2022 for an amount of Rs.93,000 submitted by EEE Department under AICTE Training and Learning (ATAL) Academy has been

successfully

completed. ♦ CSI student branch CE Perumon has got best entry level student branch award 2020-21. ♦ Special appreciation to Prof. Ratheesh S AP in CSE from Regional Director of NSS for “Mapathon Keralam” project- KTU NSS CELL . ♦ Participation in Republic Day Parade as the Hub student representative Sneha.S of ECE Department-Travancore for ComSoc Kerala chapter Student Leadership Team 2022. ♦ Participation in the ‘NATIONAL INTEGRATION CAMP’ representing Kerala and APJKTU university - Kiran M of S4 CSE at Coimbatore Sri Ramakrishna College of arts and science. He was one of the 10 volunteers selected for the national integration camp. ♦ Divyasree D of S2 CSE won First position in the Online National Level Quiz Competition conducted by NCC Unit of Baseliros College , Kottayam. ♦ Our student NCC Cadets V. Vishu Hari and Nithin Thomas were selected in INDIAN NAVY.

#### College Achievements

- ♦ Sindhoory Santhosh of S5 EEE has been selected to the documentation team of IEEE Link under IEEE Travancore Hub. ♦ Lydia Thomas, Deva Govind J and Amrita S of CS4 selected as Co Chair(Design), and Vice Chairs in SAC(Students Activities Committee) CSI Trivandrum chapter. ♦ M.Tech 2021 passout student Gayathri J. L’s MTech thesis under the guidance of Dr. Bejoy Abraham, Associate Professor in CSE and Smt. Sujarani M.S, AP in CSE got Best Master's Thesis Award (consolation) in the 4th Edition of IEEE Graduate Congress GraTE’7’-2022. ♦ Kerala Olympics District Competition - Pranav Sreenath S4 CSE - Won Silver Medal at Pathanamthitta and qualified to Kerala Olympics State level. ♦ Kerala Olympics State Shooting Championship- Pranav of S6 CSE secured Gold Medal at Team Event, 4th place at Individual event ♦ Deepa and Aattu of S5 ECE for securing Bronze Medals in Individual Kumite Competition. ♦ Mr.Kollam Competition -Binoy Pious,S5 ECE secured 5’t Position. ♦ Anasaf Salim of CSE for securing Bronze Medal in State Level Karate Championship. ♦ The short film “Morpho” directed by Sreehari of S7 ME got the Title “Best Short Film 2021 “ from the Social Justice Department, Govt of Kerala. College of Engineering Perumon 12 Information Bulletin 2023-24 ♦ The short film “KNOCK” directed by Aswin T of S5 IT & his team was selected for the Mumbai Independent Film Festival. ♦ Aneez S, EEE 2008-12 Batch has secured 403rd rank in the Civil Service Examination ♦ Ambu S (2008-2012) Batch got selected in IRPFS (Indian Railway Protection Force Service) through Civil Service Examination(2020-21). ♦ Our CSI Student branch Executive Committee member Lydia Thomas of S4 CSE selected for Highest Committed Student Branch Champion (Female) 2020-21. ♦ GARVIN - An Autonomous Electric Vehicle project by final year B Tech students of EEE department, guided by Dr Bindu S.J. Head of the Department,EEE ♦ Gangothri and her team (2017-2021 Batch) developed “E-THAP” a device that can measure body temperature without the help of human intervention and is useful in the current pandemic situation of COVID and got media coverage. ♦ 50 units of automatic sanitizer “e-Shuddhi” developed by 2017-2021 Batch students delivered to 18 important public places including hospitals, KSRTC bus stations , fire stations etc. ♦ Pradeesh Lal and his team (2017-2021 batch) got shortlisted for National level RFID Challenge organized by IEEE India section 2021 for developing a robot “ Robio a convalescent robot” which can be used to measure the body temperature, oxygen level in blood and pulse rate of COVID patients and can be

observed through phone. ♦ Sabari S Ashan and his team (2018-2022 batch) developed a project “ Water cleaning vacuum pump and quality monitoring system ” as academic project got news coverage by media. ♦ EC 2017-21 batch developed a project “Temperature and Face recognition Robot with self sanitization” received Viewers choice award in “Abhinav Vichar”, intercollegiate state level project competition hosted by IEEE AISAT. ♦ Akash V. of 2020-2024 batch won First prize for 3 Level coding competition conducted by IEEE students Branch CE Perumon. ♦ Jyothis J S of 2020-2024 batch won the second prize for JAM competition conducted by 3 Kerala Naval NCC Unit ,CE Perumon. ♦ Akash V. of 2020-2024 batch has won First prize for Ad Making Competition conducted by IEEE students branch CE Perumon.

- ♦ Vaishnavi S R and Ashik Shajan of 2019-2023 batch have secured SGPA 10/10 and became toppers in Third Semester KTU Examination.

#### College Achievements

- ♦ Karthik S. of 2018-2022 batch has participated in the online quiz competition based on life of Gandhi organized by NSS units of TKM College of Engineering under the auspices of NSS cell of APJ Abdul Kalam Technological University in connection with the 150th Birth Anniversary of Mahatma Gandhi. ♦ NSS Unit 539 of College of Engineering Perumon donated more than 2000 book collections to Kites Foundation BOOK FARM book collection campaign for setting up the library for rural areas to Promote Reading. ♦ CSI SB CEP in association with ASCII and IEDC conducted a 24 hours Offline Hackathon, ‘Hack with CEP’. ♦ Ansaf Salim of CSE is detailed for OverSeas Deployment Camp, one of the prestigious camps in NCC Navy. He is the one among the 10 cadets all over India for this camp. He will be visiting four countries as part of the camp from 12th September to 21st August 2023. College of Engineering Perumon 13 Information Bulletin 2023-24 ♦ Faculties of the Computer Science Department handled talk sessions on various innovative topics, organized by Computer Society of India SB in August 2023. ♦ An Online International Conference on “Intelligent Technologies in Computer and Engineering Science” was organized by the Computer Science Department from 15th to 16th June 2023. ♦ CRACK-A-THON’ GROUP-CODING-COMPETITION’ Crack-a-thon’, a group coding competition for 2nd and 3rd year CS students was held as part of the formal inauguration of the coding club of CEP in association with ASCII under the guidance of Prof. Sujarani, coordinated by Shyno Alexander, Vandana V and Viswajith P Son 27th March 2023. ♦ Prof. Anoop S. of CSE was awarded Ph.D., from Noorul Islam Centre for Higher Education for the Thesis titled “Design and Development of Secure Energy Efficient Offloading Framework in Mobile Cloud Computing” under the area of Cloud Computing on 24th March 2023. ♦ CSI SB CEP conducted a seminar on ‘GIT AND GITHUB’ to give an introduction and idea about GITHUB. It was handled by S Pranav (Publicity Head CSI SB CEP) and coordinated by Gregory and Saanika of S5 CSEB on 18th February 2023. ♦ Prof. Sujarani M. S. and three students of the Computer Science Department attended Professional Students Summit 2023, Govt. of Kerala initiative organized by ASAP Kerala under Higher Educational Department at Adlux International Convention Centre, Karukutty, Angamaly on February 11, 2023. ♦ A talk session on ‘Taking change of your life and career: developing own success matrices’ was led by Vipin Gopal, South L&D Leader and Manager Academic Excellence. About

88 students participated in this event. ♦ FDPs attended by faculty members of CSE is 10. ♦ Prof. Varun Chand of CSE was awarded Ph.D from Vellore Institute of Technology for the Thesis titled “An Intelligent Driving Assistance System Using Image Processing and Machine Learning Techniques” under the area of Intelligent Transportation Systems on 6th October 2022. ♦ Sreehari Ramanujan, Devika G and Divyasree D of CSE participated in Ek Bharat Shresht Bharat National camp held in August 2023 and acquired B-Certificate and C-Certificate. Abhirami J of CSE acquired B-Certificate. ♦ Sreehari Ramanujan from S6 CS B won the District Level evaluation of K-DISC YIP4.0.

♦ Prof. Ratheesh S. of CSE honored by Joy Alukkas Foundation for the significant contributions to preserve nature and earth on World Environment Day and it is received from former Mayor of Kollam and chairperson of town planning standing committee Smt. Honey Benjamin.

#### College Achievements

- ♦ S. Pranav of CSE 2019-2023 batch got selected to represent KTU in the All India Inter University Shooting Competition held at Meerut. He represented the KTU shooting team for the third time. ♦ Abhirami S Ajay, from S6 ME has been selected as one of the District Level winners of ♦ evaluation of Young Innovators Programme, YIP 4.0. ♦ Aathira Krishnan, student of S6 ME was part of college team, which secures 1st prize for eastern group dance in SAGA-23 CAPE Arts Fest on 05/05/2023 ♦ Vaishnav, student of S6 ME was part of the college team, which secured 3rd prize for Malayalam Drama in SAGA-23 CAPE Arts Fest on 05/05/2023. College of Engineering Perumon 14 Information Bulletin 2023-24 ♦ Vaishnav, student of S6 ME, has secured 1st prize for Debate competition in SAGA-23 CAPE Arts Fest on 05/05/2023. ♦ Nikhilesh, Vinayak, Akhil Udayan, Nanda Kishore, Manaf, Sreevinayak, Niranjanan, Rajaneesh students of S6 ME has participated in KTU athletic meet held at Chandrashekar Nair Stadium, Trivandrum during April 2023. ♦ Vaishnav of S6 ME has attended National Integration Camp from March 4 to March 10 2023 held at Mary Matha Arts and Science College, Wayanad. Nominated as the best cultural Performer ♦ Govind Suresh, student of S6 ME was a member of the University cricket team which participated in south zone Inter University cricket tournament organized by Reva University, Bangalore from 24th February to 1st March 2023. ♦ Sreevinayak, student of S6 ME was a member of University Handball team which participated in south zone Inter University handball tournament organized by Periyar University, Salem from 3rd to 5th February 2023. ♦ Students of S6 ME have participated in KTU B Zone Cricket Tournament held at Asramam maidan, Kollam on 4 January 2023. ♦ Students of ME participated in KTU B Zone Tug of war competition held at Asramam maidan, Kollam on 4 January 2023. ♦ Amar Krishna, Student of S6 ME has represented and led 18 member State Team for All India Sea Training Camp held at Mumbai (16 December 2022 to 25 December 2022) and has received badges from Flag Officer Commanding Western Naval Fleet. ♦ Bharath, Student of S4 ME has secured 2nd prize in Interzone Karate Championship held on 21st December 2022. ♦ Students of ME were members of the team which secured 3rd position in All Kerala KTU Handball Tournament held at Eranad Knowledge City, Malappuram on 5th December 2022. ♦ Sanitary Pad Vending Machine jointly Developed by IEDC & Department of Mechanical Engineering installed in CEP. These



are the college achievements

## NBA Accreditation

The National Board of Accreditation (NBA) has given accreditation for the all B.Tech programmes of our institute which is a tremendous achievement among engineering colleges of our state. The purpose of the accreditation by NBA is to promote and recognize excellence in technical education in colleges and universities. The purpose of the accreditation by NBA is to promote and recognize excellence in technical education in colleges and universities—at both the undergraduate and postgraduate levels. Institutions, students, employers, and the public at large all benefit from the external verification of quality provided through the NBA accreditation process. They also benefit from the process of continuous quality improvement that is encouraged by the NBA's developmental approach to promote excellence in technical education. The National Board of Accreditation (NBA), India was initially established by AICTE (All India Council of Technical Education) under section 10(u) of AICTE act, in the year 1994, for periodic evaluations of technical institutions & programs basis according to specified norms and standards as recommended by AICTE council. In 2014 it was granted full membership status in the Washington Accord. The University Grants Commission (UGC) provides financial assistance to eligible colleges which are included under Section 2(f)\* of UGC Act, 1956 as per approved pattern of assistance under various schemes. The National Board of Accreditation (NBA) is the Apex body constituted for quality assurance of technical institutions of India. The NBA is equally concerned with assessing and assuring the quality of various constituent elements of the technical institutions, such as academic ambience, teaching learning process, students' performance, infrastructure, financial resources, physical resources, human resources, placements, supporting systems like library resources, computational resources and avenues to develop the students' personality and learning capacities.

**Benefits to Students :** Students studying in NBA accredited Institutions can be assured that they will receive education which is a balance between high academic quality and professional relevance and that the needs of the corporate world are well integrated into programmes, activities and processes. It signifies that he has entered the portals of an Institution, which has the essential and desirable features of quality professional education.

**Benefits to institutions :** Accreditation is market-driven and has an international focus. It assesses the characteristics of an Institution and its programmes against a set of criteria established by National Board of Accreditation. NBA's key objective is to contribute to the significant improvement of the Institutions involved in the accreditation process. Accreditation process quantifies the strengths, weaknesses in the processes adopted by the Institution and provides directions and opportunities for future growth.

**Benefits to Employers:** NBA Accreditation assures prospective employers that students come from a programme where the content and quality have been evaluated, satisfying

established standards. It also signifies that the students passing out have acquired competence based on well established technical inputs.

Benefits to Public : NBA Accredited status represents the commitment of the programme and the Institution to quality and continuous improvement.

## PROSPECTUS

**Mode of Admission and Eligibility Requirements :** Out of the total seats available for ECE, EEE and ME 90% of seats are under the merit quota, 5% reserved for the ward of employees of the Cooperative sector and the remaining 5% are under the NRI quota. In the CSE branch, 60% seats are under merit quota (regulated fee), 30% seats are under the merit quota (full fees), 5% reserved for the ward of employees of the Co-Operative sector and the remaining 5% are under the NRI quota. For all the categories of seats the various fees are fixed by the Govt. and for the state quota seats the fees fixed is same as that in Govt. Engineering Colleges / comparable to that in Govt. Engineering Colleges. To the state quota and the management quota the students are admitted by the Commissioner of Entrance Examinations (CEE) based on the rank obtained in the entrance test and observing all reservation norms as applicable to the Govt.

Engineering Colleges. In the case of NRI seats the students are admitted based on the marks obtained in the qualifying examination. This college is the choice of top rank holders in the CEE. Eligibility for admission is as per the rules and regulations of the Commissioner of the Entrance Examinations, which are stipulated by the Govt. of Kerala, and as per the course regulations of the Kerala Technological University (KTU).

**Academic Software :** College uses Academic Software for recording Academic Activities. The webportal id is [www.cep.etlab.in](http://www.cep.etlab.in). In addition to this portal, there is a mobile app for ease of use. Parents can monitor the academic data of their ward through the login username and password provided for them. The academic data includes attendance, internal marks, assignment marks, university marks etc. Parents shall contact respective class advisors for getting username and password, and also in case of any difficulty in logging into software. Teachers enter the attendance of students immediately after engaging a period. Also the marks of internal exams, assignments etc. are entered after evaluation, so that parents can view them through their login. Attendance, mark etc of students will be sent as SMS to parents .

**B.tech Fee Structure :** Fee Structure includes Tuition Fee per year for Merit Quota Students is Rs. 35000, Management Quota Students is Rs 65000, for NRI Students is Rs. 100000, for SC/ST students is Rs. 35000 it is to be paid by the student to the college after sanctioning from the SC Dept. Additionally, there are one-time fees such as Admission Fees of Rs. 250, Establishment Fees of Rs. 2,000, Students Activity Fund of Rs. 1,000, and Caution Deposit of Rs. 5,000. Other recurring fees include KTU Administration Fees of Rs. 1,050 per semester, University Exam Fee of Rs. 1,500 per semester, and Arts & Sports Fees of Rs. 530. such as the PTA fee of Rs. 6,000

applicable to all categories, the ID Card & Academic Software fee of Rs. 975 for all categories, and the Co-Operative Society fee of Rs. 55 also applicable to all categories. Additionally, there is a Career Guidance and Training Fund fee of Rs. 500, a CAPE State Level Techno-cultural Fest fee of Rs. 500, and an Insurance fee of Rs. 50.

Discipline, Conduct and Behavior :\_1. All students should follow the uniform dress code of the college inside the campus. Dress properly and neatly, befitting to an engineering student.(sec 2.12 for dress code) 2. Behavior of the students, both within and outside the college premises should be decent and befitting to a professional institution. 3. The student should move silently when proceeding from one class without disturbing classes at work. 4. No student shall leave the class before the class is dispersed or without the permission of the teacher-in-charge of the class. 5. Students are prohibited from organizing or attending meetings on the college campus, distributing notices and collecting money for any purpose without the prior permission of the Principal. 6. Any student, • who is persistently insubordinate, • who is habitually irregular in attendance or inattentive to his work in the class • who is repeatedly or willfully mischievous, or obscene in word or act, • who is guilty of malpractice at examinations and • who indulges in movements which lead to communal ill feelings or enmity will be punished according to the recommendations of the college council. 7. Students should observe strict silence in the library and internet lab. They should not disturb others. 8. Scribbling or etching on drawing boards, desks and writing on the wall are strictly prohibited. 9. Students should not misplace articles, furniture or books in the classrooms, laboratories or library. 10. Under any circumstance, no student or staff or outsider is permitted to enter the classroom while classes are going on, without the permission of the staff member concerned. 11. Any type of ragging, teasing, torturing, or misbehavior to any student is strictly prohibited. Legal actions will be taken against those students who are found guilty of ragging as per the prevailing laws and directions of Honourable Courts.

### STUDENT'S COUNCIL

The college has a Student's Union, an elected body from the students with the office bearers in various posts. Its objectives are : To enable the students in effective delivery of duties, taking responsibilities and observing the rights of citizenship. To promote opportunities for the development of character, leadership, efficiency, knowledge and spirit of service among the students. To encourage sports, arts and other cultural, educational and recreational activities that are incidental and conducive to the above objectives. To work for the general welfare of the student community. The term of the council is generally for one year from the date from which it assumes office or till the date of declaration of the elections to the council in the subsequent year. The college also has sectional associations in each department.

**ANTI-RAGGING COMMITTEE :** Definition of Ragging “Any disorderly conduct whether by words spoken or written or by an act which has effect of teasing, treating or handling with rudeness any other student, indulging in rowdyism or indiscipline activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the students to do any act or perform something which such student will not do in the ordinary course and which has the effect of causing or generating a scene of shame or embarrassment so as to adversely affect the physique or psyche of a fresher or junior student.” An anti-ragging committee has been constituted in the college for preventing ragging on the campus, as per the orders of the Hon. Supreme Court vide order Slp(c) Nos-24296-24299/2004 dated 16-5-2007 and the subsequent guidelines issued by the University.

**PROHIBITIONS IN COLLEGE :** 1. Organizational politics in any form is banned on the campus subject to the orders of the Honorable High Court and the University guidelines. Similarly, the following are also banned inside the campus. 2. Smoking, 3. use of alcohol and other intoxicant materials, 4. use of vehicles 5. use of plastics 6. use of mobile phone

**CLASS TIMINGS :** The class timings from Monday to Thursday are as follows: The 1st period is from 9:10 am to 10:10 am, the 2nd period is from 10:10 am to 11:10 am, the 3rd period is from 11:20 am to 12:15 pm. There is a lunch break from 12:15 pm to 1:05 pm. After the break, the 4th period is from 1:05 pm to 2:00 pm, the 5th period is from 2:00 pm to 2:55 pm, and the 6th period is from 3:05 pm to 4:00 pm. On Fridays, the schedule is slightly different with the 1st period from 9:10 am to 10:00 am, the 2nd period from 10:00 am to 10:50 am, the 3rd period from 11:00 am to 11:50 am, and the 4th period from 11:50 am to 12:40 pm. There is a longer lunch break from 12:40 pm to 2:10 pm. The 5th period is from 2:10 pm to 3:05 pm, and the 6th period is from 3:05 pm to 4:00 pm.

**SCHOLARSHIPS AND STIPENDS :** Students belonging to SC/ST/OEC and SEBC categories are eligible for fee concessions, stipends, and lump-sum grants as per the norms set by the Government of Kerala. Various types of scholarships are available, including the MCM-Minority Cum Merit Scholarship, Fisherman Scholarship, Central Sector Scholarship, Merit cum Means Scholarship, C.H. Muhammed Koya Scholarship, AICTE Tuition Fee Waiver Scheme, Stipend for SC/ST candidates, E.K. Nayanar CAPEScholarship, E-Grants, Pragati-Girls Students, and CRPF & Assam Rifles/RPF-PM Scholarship.

DRESS CODE : All students must wear the uniform and identity card strictly. It is a light blue shirt with white stripes and black color pants for boys. Girls are having light blue shirts and black color pants together with black overcoat. In workshop and machines laboratories they should wear dark blue overcoats and closed shoes. Chappals and other fashionable footwear are not allowed there. An identity card with photograph will be issued to all students. Students should wear the same when they are on the campus and must produce the same for inspection.

### Departments / Branches / Streams

1. Computer Science and Engineering, 2. Mechanical Engineering, 3. Electrical and Electronics Engineering, 4. Electronics and Communication Engineering.

1. Computer Science and Engineering (CSE, CS, CS/IT) :

- a. VISION : To emerge as a department of global stature in the field of computer science education, research and development.
- b. MISSION : To equip graduates in the field of computer science with competent technical and analytical skills, innovative research capabilities and leadership potential. To instill graduates with integrity, discipline and ethics to work with commitment for the progress of the society.
- c. This department is all set to keep pace with the latest developments in the field of computer science and engineering. It emphasizes on nurturing the potential of students and above all plays a vital role in carving out software and hardware intellectuals excelling in innovation, creativity, and quality. This department is well equipped with the following labs : 1. Programming Lab I. 2. System Lab. 3. Research Lab I 4. Programming Lab II 5. Project Lab. 6. Network and OS Lab. 7. Hardware Lab.
- d. Department of Computer Science and Engineering has organised KTU sponsored FDP on Emerging trends and developments in Biomedical Engineering from 9th to 14th August 2021
- e. Head of the department(CS) = Dr. K. S. Angel Viji
- f. Faculties ( Computer Science ) / Teachers / Professors of CS Dept ( Computer Science and Engineering ) : Dr K S Angel Viji is the Associate Professor and Head of the Department (HOD) with a background in M.E and PhD. Her contact number is 9751280848. Smitha C S is an Assistant Professor with qualifications in M.Tech and PhD. Her contact number is 9446794749. Sanoj R is an Assistant Professor with qualifications in M.Tech and PhD. His contact number is 9446546127. Dr Sreenithya N. is an Assistant Professor with qualifications in M.Tech and PhD. Dr Suja Vijayan is an Assistant Professor with qualifications in M.Tech and PhD. Her contact number is 9846372722.

Muhammed Nizar B.K. is an Assistant Professor with qualifications in M.Tech. His contact number is 9747125560. Ratheesh S. is an Assistant Professor with qualifications in M.Tech. His contact number is 8547427518. Sujarani M.S. is an Assistant Professor with qualifications in M.Tech. Her contact number is 9495918218. Sri. Mhd. Azharudeen Sahib S. is an Assistant Professor with qualifications in M.Tech. His contact number is 9495550834. Dr Varun Chand H. is an Assistant Professor with qualifications in M.Tech and PhD. His contact number is 9037939080. Dr. Anoop S. is an Assistant Professor with qualifications in M.Tech and PhD. His contact number is 9446747253. Deepa K. Daniel is an Assistant Professor with qualifications in M.Tech and PhD. Her contact number is 8991174195. Sidhik A is an Assistant Professor with qualifications in M.Tech. His contact number is 9995448313. Anish A Aziz is an Assistant Professor with qualifications in M.Tech. His contact number is 8590514876. Anison Abraham is an Assistant Professor with qualifications in M.Tech. His contact number is 7012791171. Suzanna Charly is an Assistant Professor with qualifications in M.E. Her contact number is 8606764228. Jency Mariam John is an Assistant Professor with qualifications in M.Tech. Her contact number is 9605008955. Sijimol K. is an Assistant Professor with qualifications in M.Tech. Her contact number is 9562249938. Ramcy R. is an Assistant Professor with qualifications in M.Tech. Her contact number is 8590141415. These are ones in CS dept.

- g. Lab Staff ( Computer Science )/ Laboratory / Computer Lab / Assistant ( CS ) : The department's support staff includes Sri. Navas Y., who serves as the Computer Programmer and can be reached at 9495432422. Sri. Sajeer S. holds the position of Instructor Gr.I (Hardware) and can be contacted at 9847525885. Sri. Arun C. Pillai is the Tradesman and can be reached at 9895463735. Additionally, Smt. Jaseera A is a staff in CS.

## 2. MECHANICAL ENGINEERING ( Mech ) Branch / mech department :

- a. Vision ( Mechanical ) : Excel in mechanical engineering education and research for overall sustainable development.
- b. Mission ( Mechanical ) : Impart quality education to nurture globally competent and socially responsible mechanical engineers and Foster research to address the technological needs that society faces.
- c. The Department of Mechanical Engineering at College of Engineering Perumon was established in the year 2011 offering a B.Tech programme in Mechanical Engineering. With a right blend of theory and practice, this programme has well laid itself as a prominent option for students. The department has a team of well qualified and experienced faculty in all streams of mechanical engineering who always strive for imparting quality education. State-of-the-art laboratories in the department help to mold engineering graduates as per the curriculum requirements. The department is continuously striving to achieve excellence in mechanical engineering education and research with service to the society.
- d. The laboratories under the Department of Mechanical Engineering are : 1. Machine Tools Lab I 2. Machine Tools Lab II 3. Thermal Engineering Lab I 4.

Thermal Engineering Lab II 5. Fluid Mechanics & Hydraulic Machines Lab 6. Mechanical Engineering Lab 7. Computer Aided Design and Analysis Lab 8. Material Testing Lab 9. Mechanical Workshop 10. Civil Workshop 11. Project Lab and Garage.

- e. Head of Department ( Mechanical Engineering ) : Sony R.
- f. Faculties ( Mechanical Department ) : The Department of Engineering at our institution is led by Smt. Sony R., who serves as the Head of the Department and holds a PhD in addition to an M.Tech degree. The faculty members contributing to the department include Sri. Syamkumar G., Sri. Suneer K.S., Sri. Raj Mohan R.E., Sri. Sudeep Dinesh, Sri. Jithin V.M., Sri. Deepu R.J., Sri. Akhil J. Chandran, Sri. Harikrishnan P., Sri. Muhammed Khais A., Sri. Vipin Babu, and Sri. Rohit R.V. Their qualifications range from M.Tech to PhD, showcasing a diverse and well-qualified team. For further communication, contact details for each faculty member are provided: Smt. Sony R. at 9447865695, Sri. Syamkumar G. at 9497137744, Sri. Suneer K.S. at 9446639190, Sri. Raj Mohan R.E. at 9947402981, Sri. Sudeep Dinesh at 9746930925, Sri. Jithin V.M. at 9447449649, Sri. Deepu R.J. at 8921391495, Sri. Akhil J. Chandran at 9656196131, Sri. Harikrishnan P. at 9496712925, Sri. Muhammed Khais A. at 9847060348, Sri. Vipin Babu at 9567223734, and Sri. Rohit R.V. at 9544587952.
- g. Other Staff in the Mechanical Department : The instructional team at our institution also includes Sri. Chinmayan V., serving as Instructor Gr.I with contact number 9447039832, Sri. Rahul R. in the role of Instructor Gr. II reachable at 9497358817, and Sri. Sujeesh G., who holds the position of Trade Instructor Gr-II and can be contacted at 9446025047. These dedicated individuals contribute to the academic environment with their expertise and commitment to education.

### 3. Electrical and Electronics Engineering ( EEE Department ) :

- a. Vision of EEE Department ( Electrical and Electronics Engineering ) : To be the innovative global leader in technical education and research by providing excellent education in Electrical and Electronics Engineering.
- b. Mission of EEE Department ( Electrical and Electronics Engineering ) : To produce high quality professionals in Electrical and Electronics Engineering who have serious concerns on engineering fundamentals technological advancements, professional ethics and social value system.
- c. Lab in Electrical and Electronics Engineering Department : The department is dedicated to providing students with a thorough understanding of electricity and its technological advancements in the realm of Electrical Engineering. To achieve this goal, the department offers a diverse range of laboratories, each designed to offer practical insights into various aspects of the field. These include the Power System and Power Electronics Simulation Lab, Microprocessors and Microcontrollers Lab, Digital Electronics Lab, Project Lab, Analog Electronics Lab, Electrical Machines Labs 1 and 2, Power Electronics Lab, Circuits and Measurements Lab, Power Systems Lab, Control Systems Lab, Electrical



Engineering Workshop, and E-Mobility Lab. These facilities serve as crucial platforms for hands-on learning, allowing students to apply theoretical knowledge and stay ahead of emerging trends in Electrical Engineering. The department houses laboratories with modern infrastructure. It includes equipment like latest measurement gadgets, process control set up with PLC, power quality analyser, advanced software facilities, different types of AC and DC machines.

- d. Department Contributions and doings : The Department of Electrical and Electronics has organized a series of conferences, including the National Conference on Future Technologies in Power, Control, and Communication Systems (2016, 2017), National Research Colloquium (2017), and subsequent editions in 2018 and 2019. Notable conferences include the International Conference on Innovations in Science and Technology for Sustainable Development (ICISTSD 2022), sponsored by IEEE Kerala Section, and the Third International Conference in August 2022. The department collaborates with CDAC Trivandrum, KEL Kundara, and Entuple Enterprises through MOUs. Students developed IPs using CDAC's HSRPEC technology. Various Faculty Development Programs cover topics like smart grids, electric vehicles, industrial automation, and power electronics. A workshop on 'Electric Mobility: Storage and Management' featured industry experts, attracting 50 participants in December 2022. These initiatives highlight the department's commitment to academic excellence, research, and industry partnerships.
- e. Head of the department of Electrical and Electronics Engineering Department :  
Dr. Mohanalin Raja Rathnam

- f. Faculties of Electrical and Electronics Engineering Department : Dr. Mohanalin Raja Rathnam serves as the Head of the Department (HOD) and is an Associate Professor with expertise in M.Tech and a PhD. For further communication, Dr. Rathnam can be reached at 8281821720. The department also comprises a dedicated faculty including Smt. Jasna Basheer, Assistant Professor (PhD, M.Tech) at 9496332274; Sri. Rahul Charles C.M., Assistant Professor (PhD, M.Tech) at 9496366337; Sri. Thasreef H.R., Assistant Professor with M.Tech qualification at 9995364082; Smt. Viji Chandran, Assistant Professor (PhD, M.Tech) at 9895238814; Smt. Edwina G. Rodrigues, Assistant Professor (on leave) with M.Tech qualification at 9526391325; Smt. Ajisha S., Assistant Professor (PhD, M.Tech) at 9447790928; Sri. Arun M.S., Assistant Professor with M.Tech qualification at 9496367726; Smt. Jasmi M.S., Assistant Professor with M.Tech qualification at 9447361252; Sri. Sreeraj R., Assistant Professor with M.Tech qualification at 8907536022; and Smt. Anjali Surendran, Assistant Professor with M.Tech qualification at 9072720113. This diverse team contributes to the department's academic and research endeavors.

- g. Other Staff at Electrical and Electronics Engineering Department : The instructional team in the department also includes Smt. Bindu S., serving as Instructor Gr-II, reachable at 9496117064; Sri. Vishnula V.S., Trade Instructor Gr-II, with contact number 9946535020; and Sri. Sudheendran T.S., another Trade Instructor Gr-II, available at 9995079599. These dedicated individuals contribute to the department's practical training and educational efforts.

4. Electronics and Communication Engineering :

- a. Vision of Electronics and Communication Engineering dept : To be the innovative global leader in technical education and research by providing excellent education in Electrical and Electronics Engineering.
- b. Mission of Electronics and Communication Engineering dept : To produce high quality professionals in Electrical and Electronics Engineering who have serious concerns on engineering fundamentals technological advancements professional ethics and social value system.
- c. Labs at Electronics and Communication department : The department is committed to enhancing students' understanding of electricity and its technological advancements in Electrical Engineering. To achieve this, the department provides access to various laboratories aimed at offering practical knowledge. These include the Power System and Power Electronics Simulation Lab, Microprocessors and Microcontrollers Lab, Digital Electronics Lab, Project Lab, Analog Electronics Lab, Electrical Machines Labs 1 and 2, Power Electronics Lab, Circuits and Measurements Lab, Power Systems Lab, Control Systems Lab, Electrical Engineering Workshop, and E-Mobility Lab. These laboratories serve as essential platforms for hands-on learning, ensuring students gain practical experience in Electrical Engineering and its emerging areas. The department houses laboratories with modern infrastructure. It includes equipment like latest measurement gadgets, process control set up with PLC, power quality analyser, advanced software facilities, different types of AC and DC machines. Staff development program and faculty development program, workshops, seminars etc are organized regularly. Department organizes national conferences regularly.
- d. Faculties : The Department of Technology at the institution is led by Dr. Rajeesh J., who serves as the Professor and Head of the Department (HOD). He holds a M.Tech and a PhD, and can be contacted at 9442959056. Supporting him is Sri. Pradeep T.S., an Associate Professor with a background in M.Tech and PhD, reachable at 8921276319. The faculty further includes Smt. Navitha K. Krishnan, an Assistant Professor with a M.Tech and PhD, available at 9447097691. Sub. Lt. Ajith A., an Assistant Professor and NCC Officer, brings a combination of M.Tech, MBA, and PhD to the department and can be reached at 9995295599. Other members of the faculty include Smt. Dhanya M., Smt. Smrithi V., Smt. Aseena A., Smt. Archa A.B., Sri. Mukundakumar M., Sri. Surjith S. (on Deputation), Smt. Jasna K., Smt. Tasneem Salam H., Sri. Dinu A.G., Smt. Anju V.

Gopal, Sri. Jasim

Jalaludeen, Dr. Arun P.L., and Smt. Jenny Patrick, each contributing to the department with their expertise and contact details provided for communication purposes.

## OTHER FACILITIES IN THE COLLEGE

- CENTRAL LIBRARY

- College of Engineering Perumon Central Library (CEPCL) has become one of the finest and best in class technical Library & Information Center among the nine prestigious engineering colleges established under the Co-operative Academy of Professional Education (CAPE) by the Government of Kerala. The Central Library of our engineering college provides a quality of informative products and services to ensure LibQUAL service to the users of the academic community. It is functioning in the administrative block of the college. The carpet area of the college library is about 405.63 sq.m. Reading space is 162.74 sq.m. It is well equipped, well furnished, computerized and RFID enabled. It operates in three floors. Reference and Periodical sections are housed in ground floor. Stack room and various sections such as Book Bank literature, Reports, CD-ROMS and Digital library for e-journal access are functioning in the 1st floor. The Central Library of College of Engineering Perumon acquires a prominent place among the students and faculty. The library has a collection of books of nearly 20,000 volumes of 8,572 titles and 53 printed journals. It includes a good collection of books and journals in the areas of Electronics, Computer science, Electrical and Mechanical Engineering and related fields including Science, Mathematics and Management. New titles are added from time to time in order to ensure that students are provided with updated study materials. The library also maintains around 2000 volumes of literature collection includes Malayalam and English books. Reference section includes many valuable reference materials and copies of the most essential general books which can also be borrowed on overnight issue basis. Our Reference section. also includes Dictionaries, Encyclopedias, and study materials for competitive exams such as GATE and IES. The library maintains a Book Bank collection, only for SC/ST students (3 books per student per semester) is functioning in the library. Library subscribes to E-journal resources such as ASME, ASTM-D.L, ELSVIER- SCIENCE DIRECT, IEEE, J-GATE, MC GRAW-HILL & SPRINGER. The Central Library is equipped with RFID based library security system for round the clock protection of library books. Our College Library stands to be the first Indian Library to have implemented RFID Systems of M/s Bibliotheca RFID Systems AG, Switzerland, who is a world leader integrated with KOHA, an open source Library Management System. In addition, Library provides digitized information services using the latest information product, Online Public Access Catalog (OPAC) to its members in right time. Books are classified according to Dewey Decimal Classification Scheme (DDC) and are catalogued according to Anglo American Cataloguing Rules II (AACR-II) with local variations.

- **COMPUTER AND INTERNET FACILITIES**

- Computer Center provides internet and intranet facilities to all users in the institute. For the network services, the centre has the high end computational servers on which accounts are given to students, staff and faculty of the departments. College of Engineering Perumon has an fiber optic network over the whole campus routed and Managed by UTM appliances. The college computing facilities are also used for conducting various online tests. Online journals like IEEE, Springer etc are available in the Computer Center. The Computer Center is open from 9.00 am to 4.00 pm on all working days and caters the needs of all staff and students of the college. The institute has a 24 x 7 Wi-Fi facility in the college campus for the students and faculty members to avail internet connection at any place in the college. It provides students the facilities of e-mail, net surfing, up/down loading of web based applications and helps them in preparing projects & seminars presentations. Users of the computer centre enjoy vistas of information superhighway through 8 mbps Broadband connectivity provided by BSNL and 100MBPS leased line connectivity provided by National Knowledge Network via rail tel.

- **Career Guidance and Placement Cell:**

- A placement cell is effectively functioning in this college. Leading multinational companies visit the college every year for recruitments. This cell undertakes various training and personality development programs in a regular fashion. The placement cell publishes the employment opportunities and makes available information about higher education.

- **Placement History ( Job, work, company, interview selection ) :**

- The students from this college have consistently secured placements in renowned multinational corporations, including but not limited to TCS, INFOSYS, WIPRO, CTS, SATYAM, HCL, L&T INFOTECH, SIEMENS, HUAWEI, SYNTEL, CARITOR, CSC INDIA, TATA ELXSI, NEST, UST, IBS, SUNTEC, ERNST & YOUNG, SUBEX, ACCENTURE, IBM, QBURST, TECH MAHINDRA, CERIUM, GADGEON, EXPERIAN, VVDN, ACCUBITS, ZOHO, SOTI, LITMUS7, KEY VALUE SYSTEMS, and 6D TECHNOLOGIES, among others. The placement history of the college reflects a notable trajectory over the years, showcasing the consistent growth and success of its students in securing positions in prominent companies. The placement counts for each academic year are as follows: Year 2004-2005: 54, Year 2005-2006: 81, Year 2006-2007: 82, Year 2007-2008: 112, Year 2008-2009: 86, Year 2009-2010: 91, Year 2010-2011: 27, Year 2011-2012: 103, Year 2012-2013: 50, Year 2013-2014: 50, Year 2014-2015: 70, Year 2015-2016: 54, Year 2016-2017: 31, Year 2017-2018: 40, Year 2018-2019: 87, Year 2019-2020: 143, Year 2020-2021: 126, Year 2021-2022: 178, Year 2022-2023: 137

### DEPARTMENT ASSOCIATIONS

Four associations are functioning in the college under the various departments as below  
: 1. EARNEST, 2. ASCI, 3. DYUTHI, 4. TRAMS

1. EARNEST : The Electronics and Communication Engineering Department Students Association named EARNEST (Electronic Association Rendering Newly Emerging Scientific Thoughts) was formed with the intention of cultivating interest in science and technology among the students. It organizes various programs like technical seminars, paper presentations, personality development programs etc. The association has conducted various programs right from the beginning of its journey. For the year 2014, the association has conducted various programs such as seminars, technical talks, quizzes and so on. There is immense support for these programs from the faculty side and from the student's part. We were able to bring up various technical and non-technically talented students through our ventures. We have conducted a seminar on the topic "Advanced Electronic World " which was conducted on behalf of EARNEST and was run by a person from prestigious institutions. We have conducted a Technical Expo "Open House 2016" on March 22-23, 2016. The Tech Fest ADVIB-18 was organized and conducted by the department association on 16th - 17th February, 2018. College radio was launched on 16th February, 2018. The Abstract Book 2K18 and Newsletter TRONANCE was released on 23rd February, 2018. During the academic year 2020-21, six events were conducted namely Basics of Arduino, Cymatics- The Science of Visualizing Audio Frequency , Semiconductor Physics in RealWorld , Webinar on KTU Programs, Webinar on SEO (Search Engine Optimization), Life Experience Alumni Interaction - Anjitha Viswanath , ISRO. Academic year 2022-23, Earnest inauguration was done on 13 th April 2023 by Er. Arun C, Assistant Engineer, KSEB.
2. ASCI : The Computer Science and Engineering Department Students Association. It organizes lectures, seminars and technical talks by distinguished personalities from various streams. On behalf of ASCI, College Of Engineering Perumon had organized an online workshop on Java. The workshop was handled by Premraj, S3 CSE. It was a two day workshop(7/11/2020-8/11/2020). Throughout the workshop several topics related to java have been covered where students find it much useful. About 70+ students attended. The feedback about the workshop was excellent. The meet up cum orientation session was conducted exclusively for the first year students of CS & IT depts. It was conducted on 18 oct 2019 at Main Block Seminar Hall, College of Engineering, Perumon. The event was organized under ASCI and Hack

ClubIndia. It was hosted in association with the Local Hack Day under MLH. The event started by 2.30 pm. The session was led by Abhinash Sivan, student of 4th year Computer Science Department, CEP. Participants were given an overall idea about IBM-Z and the specialities of IBM -Z series were discussed. The main goal behind the event was to make students aware of the opportunities before them. ASCI has Communities and other such clubs that play a vital role in improving the skill set of students and often the new students don't realize the importance. Other main topics discussed were the internship opportunities for engineering students. Internships are part of the curriculum and good internships are hard to find. Students were given an idea on how to get good internships at tech giants. Also other student programs like the campus ambassador programs and Microsoft Student Partners program were included. Cool swags from the MLH community were distributed to the participants and then by 4 pm the program was concluded by ASCI.

3. DYUTHI : The student association of Electrical and Electronics Engineering 'DYUTHI' was established in the year 2005. Since its inception, Dyuthi has played the vital role of being the much needed bridge between the students and industry level research and development. Our goal is to organize social and professional activities which strengthen and enrich the community within the department and to develop leadership and initiative, and to inculcate a sense of responsibility among the members of the association. The Association organizes several events throughout the academic year like technical talks by guest speakers, quizzes, workshops and most importantly 'VIDYUTH', technical expo of Electrical & Electronics Engineering Department. Its annual publications include Newsletter, Journal, Technical magazine, Project book etc.
4. TRAMS : The Royal Association of Mechanical Engineering Students (TRAMS) was established in the year 2013. TRAMS is among the most active student bodies in the college. The objective is to organize various activities such as seminars, workshops, industrial visits, technical contests etc for the benefits of students in mechanical engineering. The association helps students to explore and sharpen their technical and creative skills through its activities. TRAMS organize a major event – Auto Expo regularly. TRAMS also take active role in the event, "ADVYAKA" – The Tech Fest of College of Engineering Perumon.

The Parent Teacher Association (PTA) is actively functioning in the college. The objectives of the association are: To work for the welfare of the students and the institution. To offer constructive suggestions on various issues for the smooth and successful functioning of the college. To promote better participation of the parents in the various programs of the college and to establish better liaison with the teacher. All parents/guardians of the students on the rolls of the college and staff members are the members of the association. It is compulsory for a parent/guardian of a student on the rolls of the college to be a member of PTA.

The executive committee of the PTA consists of 1. President : Dr. Rajeesh. J (Principal) 9442959056 2. Vice President : Mr. Sarovaram Sreekumar 9388333328 3. Secretary : Mr. Rahul Charles C.M. (Asst. Prof. EEE) 7907839949.

Executive Members from Parents Side : The executive members representing the parents' side play a crucial role in the organizational structure. Mr. Sarovaram Sreekumar, whose contact number is 9388333328, along with Mr. Chandrabhanu B. at 7356247171, Mrs. Sunitha Sunil at 9910943328, Mr. Jagadeep S. at 9744225799, Mr. George Thankachan R. at 9846114040, and Mr. Sreekantan I. at 9447363363, collectively contribute to the effective functioning of the parental involvement in the institution. These individuals serve as vital points of contact and representation for parents, ensuring a strong and supportive connection between the educational institution and the parents' community. Their active participation and contact information provided here demonstrate their commitment to fostering a collaborative and communicative environment between the school and the parents they represent.

Executive Members from Teacher's Side : The academic faculty for various engineering disciplines at our institution includes Mr. Rahul Charles C.M., serving as Assistant Professor in Electrical and Electronics Engineering (EEE) with contact number 7907839949. Mrs. Dhanya M., an Assistant Professor in Electronics and Communication Engineering (ECE), is available at 9447013719. Mr. Suneer K.S., handling responsibilities as an Assistant Professor in Mechanical Engineering (ME), can be reached at 9895872333. For Mechanical Engineering (ME), Mrs. Rajmohan, an Assistant Professor, is contactable at 9496332274. Mrs. Sujarani M.S., an Assistant Professor in Computer Science and Engineering (CSE), can be contacted at 9495918218. Finally, Mr. Senthil Kumar P., serving as an Assistant Professor in Civil Engineering, is reachable at 9995890729. Together, these dedicated faculty members contribute to the diverse and comprehensive education provided in their respective disciplines, and their contact information is provided for effective communication and coordination.

Non Teaching Member (As per the approval of the General Body) 1. Mr. Venu P. (Trade Instructor in ECE) 9746917561

The PTA owns 8 college buses. The PTA plays a decisive role, as a supporting body, for the overall development of the college for ensuring smooth functioning of the college.

### COLLEGE BUSES



At present seven buses, operated by the college PTA for the convenience of students and staff. The service of college buses is controlled by a committee which includes student members also. Any complaints regarding the bus operation can be reported to the bus committee. Students and staff who are using college buses should remit the bus fee every semester, calculated based on the working days of that semester. A bus pass will be issued based on the remittance of the bus fee for both students & staff and which should be kept with them while traveling by college bus. Rules are over leafed in the bus pass. The students and staff who are using the college bus without a bus pass will be punished. The decisions of the Principal will be final in this matter

BUS ROUTES : There are 7 bus routes : BusRoute-1(Mearam to College), Bus Route - 2 (Karunagappally to College), Bus Route - 3 (Kottarakkara to College), Bus Route 4 Paravoor to College, Bus Route - 5 (Kannanalloor to College), Bus Route - 6 (Parippally to College), Bus Route -7 (Cheerankavu to College)

1. BusRoute-1(Mearam to College) : The college transportation service is efficiently managed by the dedicated driver, Chandra Babu, who can be reached at 9895139101. The boarding points and corresponding timings for both to and from the college are as follows: In the morning, the bus departs from Mearam at 8:05 AM, followed by Thattamala at 8:15 AM, Madannada at 8:25 AM, Polayathod at 8:30 AM, and Kollam Railway Station at 8:35 AM, before finally reaching the college at 9:50 AM. In the evening, the return journey begins from the college at 4:10 PM, with stops at Kollam Railway Station at 4:25 PM, Polayathod at 4:35 PM, Madannada at 4:50 PM, Thattamala at 4:55 PM, and concluding at Mearam at 5:00 PM.
2. Bus Route-2(Karunagappally to College) : The college transportation service is efficiently overseen by the dedicated driver, Rajendranathan Pillai, who can be contacted at 9495892680. The boarding points and corresponding timings for both the morning and evening routes to and from the college are detailed below:In the morning, the bus commences its journey from Karunagappally at 7:40 AM, making subsequent stops at Sankaramangalam at 8:00 AM, Sakthikulangara at 8:15 AM, Ramankulangara at 8:20 AM, Anchukallumood at 8:25 AM, Collectorate at 8:30 AM, and High School Junction at 8:35 AM, before reaching the college at 9:00 AM. In the evening, the return journey begins from the college at 4:10 PM, with stops at High School Junction at 4:45 PM, Collectorate at 4:50 PM, Anchukallumood at 5:00 PM, Ramankulangara at 5:05 PM, Sakthikulangara at 5:10 PM, Sangaramangalam at 5:15 PM, and concluding at Karunagappally at 5:50 PM.
3. Bus Route - 3 (Kottarakkara to College) : Driver Name : Suryakanthan Mob: 9947584278. The college transportation service includes convenient boarding points and timings for both the morning and evening routes to and from the college. The schedule is

as follows: In the morning, the bus departs from KSRTC Stand Kottarakkara at 7:45 AM, proceeding to Neduvathur at 8:05 AM, Ezhukone at 8:15 AM, Arumurikkada at 8:25 AM, and finally reaching the college at 9:00 AM. In the evening, the return journey starts from the college at 4:10 PM, making stops at Arumurikkada at 4:55 PM, Ezhukone at 5:00 PM, Neduvathur at 5:05 PM, and concluding at KSRTC Stand Kottarakkara at 5:10 PM.

4. Bus Route - 4 (Paravoor to College) : The college transportation service is efficiently managed by the dedicated driver, Vijayan V., reachable at 9020445657. The designated boarding points and corresponding timings for both the morning and evening routes to and from the college are as follows: In the morning, the bus commences its journey from Paravoor at 7:40 AM, followed by Thirumukku at 7:55 AM, Kottiyam at 8:10 AM, Kalluthazham at 8:25 AM, Karikcode at 8:30 AM, and Chandanathope at 8:35 AM. The bus then arrives at the college at 9:00 AM. In the evening, the return journey starts from the college at 4:10 PM, with stops at Chandanathope at 4:50 PM, Karicode at 5:00 PM, Kalluthazham at 5:05 PM, Kottiyam at 5:10 PM, Thirumukku at 5:15 PM, and concluding at Paravoor at 5:30 PM. This transportation schedule ensures timely and convenient commuting for both students and staff, providing an efficient means of travel to and from the college.
5. Bus Route - 5 (Kannanalloor to College) : Driver Name :Suresh S Mob:9947341526.The transportation service for the college operates with designated boarding points and corresponding timings for both the morning and evening routes:In the morning, the journey to the college begins with boarding at Kannanalloor at 7:45 AM, followed by Ayathil at 8:10 AM, Chemmamukku at 8:25 AM, Ashramam at 8:30 AM, and KSRTC Stand at 8:35 AM. The bus arrives at the college at 9:00 AM.In the evening, the return journey starts from the college at 4:10 PM, with boarding points at KSRTC Stand at 4:50 PM, Ashramam at 4:55 PM, Chemmamukku at 5:00 PM, Ayathil at 5:05 PM, and concluding at Kannanalloor at 5:10 PM.This transportation schedule ensures efficient and timely commuting for students and staff, facilitating smooth travel to and from the college.
6. Bus Route - 6 (Parippally to College): The college transportation services are efficiently managed by Rajendra Babu, who can be reached at 7902849289. The boarding points and corresponding timings for both the morning commute to college and the return journey are as follows:In the morning, the bus picks up students from Cheerankavu at 8:15 AM, followed by Aarumurikkada at 8:20 AM, Hospital Junction at 8:25 AM, Perumpuzha at 8:30 AM, and Keralapuram at 8:35 AM. The bus then arrives at the college at 9:00 AM.In the evening, the bus departs from the college at 4:10 PM, making stops at Keralapuram at 4:45 PM, Perumpuzha at 4:50 PM, Hospital Junction at 5:00 PM, Aarumurikkada at 5:10 PM, and concluding at Cheerankavu at 5:15 PM.This transportation schedule ensures prompt and convenient commuting for students and staff, facilitating smooth travel to and from the college.
7. Bus Route -7 (Cheerankavu to College):The college transportation service is efficiently managed by Rajendra Babu, who can be contacted at 7902849289. The designated boarding points and corresponding timings for both the morning commute to the college

and the return journey are as follows: In the morning, the bus picks up students from Cheerankavu at 8:15 AM, followed by Aarumurikkada at 8:20 AM, Hospital Junction at 8:25 AM, Perumpuzha at 8:30 AM, and Keralapuram at 8:35 AM. The bus then arrives at the college at 9:00 AM. In the evening, the return journey starts from the college at 4:10 PM, making stops at Keralapuram at 4:45 PM, Perumpuzha at 4:50 PM, Hospital Junction at 5:00 PM, Aarumurikkada at 5:10 PM, and concluding at Cheerankavu at 5:15 PM. This transportation schedule ensures prompt and convenient commuting for students and staff, facilitating smooth travel to and from the college.

### Women's Forum

The Women's Forum serves as an independent body dedicated to coordinating various activities related to the overall welfare of women within the institution. The committee members are Dr. Uma Mohan representing Civil Engineering, Mrs. Sony R. representing Mechanical Engineering (ME), Mrs. Jaseena representing Electronics and Communication Engineering (ECE), and Mrs. Bindu S. representing Electrical and Electronics Engineering (EEE). Together, these members collaborate to address and promote the welfare and empowerment of women within the college community.

### Co-operative Society

Co-operative Society, registered as per the Co-op Act, is functioning in the college with an objective to have a common forum for various welfare activities of the whole staff and students of the college. A store is functioning in full swing under the society, which caters to the needs of the staff and the students in respect of all academic stationeries. A reprographic center is also functioning well under this society, attached to the store. The Board of Directors of the Co-operative Society is composed of key individuals overseeing its operations and governance. Dr. Rajeesh. J, the Principal, serves as the President, leading the board. Mrs. Dhanya K, an Assistant Professor in Electronics and Communication Engineering (ECE), holds the position of Vice President. Mr. Venu P., a Trade Instructor in ECE, assumes the role of Secretary, managing administrative affairs. Additionally, the present committee members include Mrs. Anjana Sivan from the office, Mrs. Suja Rani M.S. representing Computer Science and Engineering (CSE), and Mrs. Ajisha S. representing Electrical and Electronics Engineering (EEE). Together, they collaborate to ensure the effective functioning and welfare of the Co-operative Society.

### National Service Scheme (NSS)

The National Service Scheme (NSS) has emerged as a powerful and dynamic youth movement in the country. The NSS acts as a catalyst to build up the right method of student leadership in an institution. The college has implemented the NSS. The main aim of the scheme is to provide various opportunities for the students to gain valuable practical experience of community service. The NSS helps in building personal development skills among students. Last year

(2021-2022) our student Sneha represented APJKTU and participated in the Republic Day parade held at Kartavya Path, New Delhi. Another student, Kiran, has participated in the national youth festival (2021) as well as in a national integration camp held at Ramakrishna College of Arts and Science, Coimbatore, Tamil Nadu. An Electoral Literacy Club is a platform to engage school students through interesting activities and hands-on experience to sensitize them on their electoral rights and familiarize them with the electoral process of registration and voting. Through ELC, Election Commission of India, aims at strengthening the culture of electoral participation among young and future voters. ELCs are present in Schools, Colleges and Rural Communities, our college is one among those institutions

#### CHAPTERS OF PROFESSIONAL BODIES

Four associations are functioning in the college under the various departments as below :

1. ISTE, 2. SAE, 3. IEEE, 4. CSI

1. **Indian Society for Technical Education (ISTE):** Indian Society for Technical Education (ISTE) is a premier national society for teachers and students of the technical education system. The major objective of the ISTE is to assist and contribute to the production and development of top quality professional engineers and technocrats needed by our nation. This college has institutional membership of this body. A student chapter of ISTE is also functioning well in the college. This chapter is conducting different training programs, seminars, talks, etc. which would enhance the professional knowledge of the students. These programs will aid the students to get equipped with technical excellence, innovation, leadership quality, organizational skills, sharp logic etc and to mold themselves into successful engineers. Mrs. Thasneem Salam, Asst. Prof. Dept. of Electronics & Communication Engg. is the staff in charge for ISTE chapter.
2. **SAE (SAEINDIA) :** SAEINDIA is India's leading resource for mobility technology. As an individual member-driven society of mobility practitioners the ownership of SAEINDIA wrests with its members who are Individuals from the mobility community, which includes Engineers Executives From Industry, Government Officials, Academics and Students SAEINDIA is a strategic alliance partner of SAE International registered in India as an Indian nonprofit engineering and scientific society dedicated to the advancement of mobility industry in India. The SAE chapter in the college is actively participating in the events organized by SAEINDIA.
3. **IEEE Chapter (IEEE):** The motto of the Institution of Electrical and Electronics Engineers (IEEE), USA is to create an awareness of the budding engineers on the latest technological innovations. The student chapter of IEEE is functioning well in the College.
4. **CSI (CSI Society/Computer Society India ) :** Computer Society of India (CSI) is the first and largest body of computer professionals in India. CSI is a non-profit organization and its members are committed to the advancement of theory and practice of Computer Engineering and Technology Systems. The seed for the Computer Society of India (CSI) was first shown in the year 1965 with a handful of IT enthusiasts who were a computer

user group and felt the need to organize their activities. They also wanted to share their knowledge and exchange ideas on what they felt was a fast emerging sector. Today the CSI takes pride in being the largest and most professionally managed association of and for IT professionals in India. The purposes of the Society are scientific and educational directed towards the advancement of the theory and practice of Computer Science & IT. Computer Society of India (CSI) is the first, largest and most professionally managed association of and for IT professionals in India. CSI is a non-profit organization established in 1965 and its members are committed to the advancement of theory and practice of Computer Engineering and Technology Systems. The society celebrated its Golden Jubilee In 2015. CSI Student Branch having institution membership ID M10741 is one of the active student branches of College of Engineering Perumon having more than 150 students as members. The CSI Student branch CEP aims for the benefit of every student of the college. The society will always work for the betterment of students along with the progress of College of Engineering Perumon to scale new heights. CSI members can benefit from participation in professional activities conducted by the CSI, receive publications of the CSI (CSI Communications, CSI Journal of Computing, CSI Transactions on ICT), and also grow and contribute by taking up leadership roles in total chapters and also at regional and national level. CSI student branch College of Engineering Perumon organizes Webinars and Workshops Competitions and other Events. Students can participate in these events. And it is also a platform to showcase skills. Students from any branch of B.Tech course can take CSI membership.

**COLLEGE GYMNASIUM** : A healthy body keeps you dynamically fit and energizes you in all your academic and cocurricular activities. A gymnasium is functional inside the campus with adequate facilities.

**ASAP - ADVANCED SKILL DEVELOPMENT PROGRAMME** : ASAP established Advanced Skill Development Centres (ASDC) through which ASAP offers courses equivalent to NSQF levels 6 and 7, as well as futuristic courses like Artificial Intelligence and Machine Learning, Cloud Computing, Robotics Process Automation, to name a few. Currently Artificial intelligence and machine learning courses are being offered at 16 centers at engineering colleges across the state. College of Engineering Perumon is one among the 16 ASDC centers across the state. It has also been noted that the curriculum has helped a few students who are currently undergoing the training in getting placement in AIML. In addition to this, third year students are interested to register upcoming courses such as AIML 2020, GSuit etc. However, these course enrolment procedures are in the waiting stage. Also, ASAP handled syllabus oriented online classes for all Engineering college students through an online facility.

**SKDC** - Skill and Knowledge Development Centre : Kerala Knowledge Economy Mission aims at transforming the state of Kerala into a knowledge society which will produce, consume, and transact knowledge for its own social and economic

development. With the aim to become the skill and knowledge development center of Kerala, CAPE rebooted its finishing school (KIMB) and established the Skill and Knowledge Development Centre (SKDC) with its central office at Punnapra, Alappuzha. The state level inauguration of Skill and Knowledge Development Centre (SKDC) was held at College of Engineering and Management Punnapra on 09-05-2022. The inauguration of SKDC nodal office at College of Engineering Perumon was also held on the same day. SKDC has its district nodal offices at its 10 academic institutions. It intends to conduct training programs for students, job seekers, entrepreneurs and employees of various organizations, for improving their skills in different areas. Training programs are conducted through all nodal offices (Engineering colleges) under CAPE by utilizing its infrastructure facilities and employees. Three day workshop titled “PERIPETEIA – A Turning point in Psychosocial Development” was conducted as the inaugural training program under SKDC at College of Engineering Perumon from 17-06-2022 to 20-06-2022. SKDC in association with KILA, conducted a training programme on ‘Computer fundamentals for elected representatives of LSGs’. The program was conducted to give training on Computer Fundamentals to the elected representatives of LSGs. Elected representatives from various Gram Panchayats of Palakkad and Kollam District participated in the training program conducted at SKDC CE Perumon nodal center. It was conducted batch wise with four days duration.

**NPTEL :** NPTEL LOCAL CHAPTER, CE, PERUMON has maintained its position as an Active local chapter since Jan-April 2018 session. Many activities were conducted to raise the awareness of students for participation in NPTEL online courses for the July – October 2019 session. Orientation programs were conducted for first year students by Mrs. Aseena.A,(Assistant Professor,Department of ECE) and SPOC, NPTEL Local Chapter, CEP.An interactive session was also handled by Jishnu.V.S of S5 ME (2017-2021) batch who secured the maximum certificates in NPTEL online exams during Jan-April 2019 session. The outcome of these efforts was reflected in considerable increase in the number of enrollment and exam registration during Jul-Oct 2019 and Jan-April 2020 as compared to previous years.During this period, a total of 56 students participated in NPTEL exams;the chapter had two course toppers, 1 student secured Elite+Gold, 24 students secured Elite+Silver and 25 students secured Elite certificates. The CEP Local Chapter again retained its position as Active Local Chapter. The CEP Local Chapter is putting all efforts to encourage the students for active participation in NPTEL online exams and it is envisaged that there will be more and more students’ participation in future and the Local Chapter come out with flying colors.

**NCC :** The National Cadet Corps (NCC) is the youth wing of the Indian Armed Forces with its headquarters in New Delhi, India. It is open to school and college students on a voluntary basis as a Tri-Services Organisation, comprising the Army, the Navy and the Air Force, engaged in developing the youth of the country into disciplined and patriotic citizens. The soldier youth foundation in India is a voluntary organization which recruits cadets from high schools, higher

secondary, colleges and universities all over India. The Cadets are given basic military training in small arms and drill. The emblem of the NCC consists of 3 colours; red, dark blue and light blue. These colours represent the Indian Army, Indian Navy and Indian Air Force respectively. The 17 lotuses indicate the 17 directories of India. 3K NAVAL NCC UNIT is the only NAVY NCC UNIT in KOLLAM Group. College of Engineering Perumon is the first college in CAPE to have a Naval NCC Sub Unit. Only three Engineering colleges in Kerala have a Naval NCC sub Unit. It is one amongst the most active navy units in India. Formation of the Naval NCC Unit in the College of Engineering Perumon was in December 2020. 3 K Naval NCC Unit carry out activities like Ship modeling, EC DINKY6 Sailing, Whaler Sailing, Boat pulling, WindSurfing, Kayaking etc. Our cadets undergoing these activities at Thevally unit. Cadets coordinate various online activities during Republic day, Independence day and during NCC day ( like Talks, online Quiz, Dance competition, Drawing competition etc). Conducted a Session about ARMED FORCES AND NCC at Kottiyam School for SPCCadets AS PART OF KARGIL VIJAY DIWAS. Many of our cadets attended ALL INDIA TREKKING EXPEDITIONhighlighted physical effort more than anything as they had to navigate through thick forests and mountain areas.A cadet from CEP NCC attended the national camp, SEA TRAINING CAMP at MUMBAI.Training was conducted by INDIAN NAVY onboard INS KOLKATA.Rowing boat simulator' installed in our institution - CE Perumon is theFirst in any college (arts & science or engineering institution) in All overIndia. Recently our college hosted an annual training camp for NCC students all over kerala.We are one of the active colleges in Kollam unit having enthusiastic and patriotic cadets.

**IEDC :** This aims to promote the institutional vision of transforming youngsters into technological entrepreneurs and innovative leaders and to bridge the gap between learning and leadership. It helps to channelize the knowledge and energy of youth towards becoming active partners in the economic development process. This catalyzes development of knowledge-based and innovation driven enterprises and promotes employment opportunities among youth especially students and to cultivate a culture of innovation driven entrepreneurship.It helps to act as an institutional mechanism for providing various services including information on all aspects of enterprise building to budding S&T entrepreneurs.

### **COMMITTEES 2023-2024**

Detailed breakdown of the committees and their members for the academic year 2023-24:

1. Project Committee: Chaired by Dr. Uma Mohan from the Civil Engineering department, with Mr. Senthil Kumar P. from Civil Engineering, Mrs. Anitha Rani from Electrical Engineering supervising, Mr. Thasreef H.R. from Electrical and Electronics Engineering (EEE), and Mr. Abdulla A. representing Electrician.
2. Parent-Teacher Association (PTA) Committee : Comprising Mr. Rahul Charles from EEE, Mrs. Dhanya M. from Electronics and Communication Engineering (ECE), Mr. Romy Roy from Applied Science (AS), Mrs. Sujarani M.S. from Computer Science and Engineering (CSE), Mr. Suneer K.S. from Mechanical Engineering (ME), Mr. Rajmohan R.E. from ME, and Mr. Venu P. as the special invitee and PTA Secretary.

3. Purchase Committee : Consisting of the Principal, all Heads of Departments (HoDs), Mr. Devarajan M.N. from the Administration Office (AO), Mr. Santosh K.V. from Agricultural Engineering (AG: I), and Mr. Shamim F.H. from the Junior Section (JS).
4. Career Guidance and Placement Cell (CGPC) Committee : Led by Mr. Muhammed Azarudeen Sahib from CSE, Mrs. Sujarani M.S. from CSE, Dr. Viji Chandran from EEE, Mrs. Aseena A. from ECE, Mr. Sudeep Dinesh from ME, and Mr. Navas Y. from Chemical Processing (CP). Additionally, designated training coordinators are appointed.
5. College Bus Committee : Headed by Mr. Rajmohan R.E. from ME, with Mr. Sudheendran T.S. from EEE, Mr. Rahul R. from ME, Mrs. Archa A.B. from ECE, and Mrs. Jyothi, the librarian, as members.
6. Other Committees : Including NSS I and NSS II, Hostel Committee, Alumni Association, Sports Committee, Housekeeping Committee, Library Committee, Ethics Committee, Women's Forum Internal Compliance Committee, Network Administration and Website Committee, Innovation and Entrepreneurship Development Cell (IEDC) and Industry-Institute Interaction Cell (IIIC), Internal Quality Assurance Cell (IQAC), counseling, information dissemination, anti-ragging, tours, magazine publication, and community engagement committees.

**A.**

**P. J. ABDUL KALAM TECHNOLOGICAL UNIVERSITY  
ACADEMIC REGULATIONS FOR B. TECH, 2019  
SCHEME**

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

**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.

**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.

### **3. Structure of B.Tech. Program :**

R3.1 The duration of the B.Tech. Program shall be 4 years (8 semesters) R3.2 The maximum duration shall be six academic years spanning 12 semesters. R3.3 Every academic year shall have two semesters “1 July to 31st December (Odd semester)” and “1st January to 30th June (Even semester)”. Each semester shall have a minimum of 72 working days. The vacation of the faculty and staff shall be as per the Government orders from time to time. R3.4 Every branch of the B.Tech Program shall have a curriculum and syllabi for the courses approved by the Academic Council. Syllabus for any course shall be normally modified / updated once in four years. However, innovative elective courses can be included as and when required, on the recommendations of the respective Board of Studies and subject to the approval of the Academic Council. All revisions shall be based only on the recommendations of the Board of Studies concerned. 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 : The credit distribution for various categories in the curriculum is as follows:

Humanities and Social Sciences including HSMC courses constitute 8 credits.

Basic Science courses, denoted as BSC, make up 26 credits. Engineering Science courses, which encompass workshop activities, drawing, and fundamentals of electrical, mechanical, or computer engineering, account for 22 credits under the code ESC. Professional core courses, abbreviated as PCC, contribute 66 credits to the curriculum. Professional Elective courses (PEC) relevant to chosen specialization or branch amount to 19 credits. Open subjects, including electives from other technical or emerging subjects as specified in the curriculum, are covered by 9 credits marked as OEC. Project work, seminars, and internships in industry or elsewhere are denoted as PROJ and constitute 10 credits. Certain Mandatory Courses, such as Environmental Sciences, Induction training, Indian Constitution, and Essence of Indian Traditional Knowledge, are non-credit bearing, collectively referred to as MC. Mandatory Student Activities, graded on a pass/fail basis, are marked as SA and contribute 2 credits in total. In summary, the total credits required for the curriculum amount to 162.

Total Credits required : 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. 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 advice, clarifications and permissions on academic matters. It is the official responsibility of the institution to provide the required guidance, clarifications and advice 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 feedback 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.

**5. ASSESSMENT - Btech :** 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. The evaluation criteria for internal assessment of theory courses and drawing/practical courses are as follows:

For theory courses: Course Attendance contributes 20% to the overall evaluation. Tests account for 50% of the evaluation. Assignments/Class work and Course projects collectively contribute 30% to the overall assessment.

For drawing/practical courses: Course Attendance holds a weightage of 20%. Tests contribute 40% to the evaluation. Assignments/Class work and Course projects together contribute 40% to the overall assessment. There shall be a minimum two internal evaluation tests, each of 2 hrs duration. Each test shall cover 50% of the syllabus and shall be for 50 marks. Retest shall be permitted to the students who could not appear for the internal tests due to genuine grounds. Three days shall be utilized for conducting the internal evaluation test. 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. 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 normalized 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 cards shall give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

The grading system for courses is as follows:

- S: Grade Point (GP) 10, applicable for scores of 90% and above.
- A+: GP 9.0, for scores between 85% and below 90%.
- A: GP 8.5, awarded for scores between 80% and below 85%.
- B+: GP 8.0, given for scores between 75% and below 80%.
- B: GP 7.5, for scores between 70% and below 75%.
- C+: GP 7.0, applicable for scores between 65% and below 70%.
- C: GP 6.5, awarded for scores between 60% and below 65%.
- D: GP 6.0, given for scores between 55% and below 60%.
- P (Pass): GP 5.5, for scores between 50% and below 55%.
- F (Fail): GP 0, applicable for scores below 50% or below 40% if failed due to lack of eligibility criteria (FE).
- I: GP 0, awarded when a student couldn't appear for the end semester examination but

meets eligibility criteria (R6.6).

- Additionally, the classification of First Class with Distinction requires a CGPA of 8.0 and above, while a B.Tech Degree First Class requires a CGPA of 6.5 and above. Equivalent percentage marks are calculated as 10 times the CGPA.

R6.18 There is no provision for improving the grade. However, the student is permitted to check the answer books of the End Semester Examination after the results are declared, on payment of the prescribed fee. Any discrepancy in evaluation could be brought to the notice of the Controller of Examination, who shall initiate appropriate action as per the University Examination Manual. R 6.19 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. R 6.20 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.  $SGPA = \frac{\sum (C_i \times G_{P_i})}{\sum C_i}$ , where 'C<sub>i</sub>' is the credit assigned for a course and 'G<sub>Pi</sub>' is the grade point for that course. Summation is done for all courses specified in the curriculum of that semester. The failed and incomplete courses shall also be considered in the calculation.  $CGPA = \frac{\sum (C_i \times G_{P_i})}{\sum C_i}$ , where 'C<sub>i</sub>' is the credit assigned for a course and 'G<sub>Pi</sub>' is the grade point for that course. Summation is done for all courses specified in the curriculum up to that semester for which the 'CGPA' is needed. Here the failed courses shall also be accounted. 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. 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 R6.22 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. R6.23 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.

**6.BREAK OF STUDY :** R7.1 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, students 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 appropriate decisions based on the team's recommendation. The break of study for the start up shall be permitted only after the 4 semesters 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

## **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 5%. 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.

**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. 8. 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.

## **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 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.

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

**12. B.Tech Honors :** R12.1 All B. Tech students are eligible to register B.Tech (Honours). However, their mandatory CGPA at the end of eighth semester shall be 8.5 or higher to be eligible for the award of B. Tech (Honours). R12.2 The B. Tech (Honours) registration shall be along with the registration of the 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 B.Tech(Honours). However, the additional credits thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA. R12.4 The student shall earn additional 20 credits to be eligible for the award of B. Tech (Honours) Degree. R12.5 Out of the 20 Credits, 12 credits shall be earned by undergoing minimum three specified B. Tech (Honours) Elective courses of the respective stream. Credits for the B. Tech (Honours) Elective courses are deemed to be earned only on getting at least a grade 'C' or better in the composite evaluation. A student shall not be permitted to select the normal elective courses of the respective B. Tech programs for attaining the credit requirements of B. Tech (Honours). The remaining 8 credits could be acquired through two MOOCs of the respective streams recommended by the Board of studies and approved by the Academic Council. R12.6 The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment. R12.7 The institutions offering B. Tech Honours programs shall not charge any additional fee from the students. R12.8 B. Tech (Honours) Degree shall be issued by the University to the students who fulfill all the academic eligibility requirements for the B. Tech and B. Tech (Honours) programs.

### **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 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 1 July to 31 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.

**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.

### **LIST OF APPROVED HOSTELS**

1. **LADIES HOSTELS:** The ladies hostels available include Mulluvila Hostel, managed by Mrs. Thankamma James, reachable at 9995206669 or 9446112226; Thiruvathira Hostel, overseen by Ms. Aswathy or Prasad R, contactable at 9744566941 or 9947732171; Priyas Hostel, managed by Bindhu L, contactable at 8547958428 or 8547936208; The Green Lake View Hostel, supervised by Mrs. Subi, reachable at 6282375876; and Vaiga Nivas Hostel, managed by Mrs. Vineetha, contactable at 9809393569. These hostels provide accommodations for female residents and offer various facilities and amenities.

2. **BOYS HOSTELS:** The boys hostels available include Ponnus Hostel, under the management of Mrs. Mini Salu, can be contacted at 9895345087. Thiruvathira Hostel, supervised by Mhs. Nisha, can be reached at either 9526642446 or 9645708079. Mahalekshmi Hostel, overseen by Mr. Harshakumar, can be contacted at 9633862220. Umesh Bhavan Hostel, managed by Mr. Umesh Kumar, is reachable at 8281933172 or 9072849361. Lucky Hostel, under the management of Mrs. Padmini, can be reached at 9048145149. Lastly, Bethlehem Hostel, managed by Bobby Leons, can be contacted at 9496597961. These hostels cater specifically to male residents and provide various amenities and facilities for their accommodation needs.

### **ACTIVITY POINTS**

Students must earn a minimum of 100 activity points to qualify for the B.Tech degree, with two credits given on a pass/fail basis. The points are not included in the CGPA calculation. The main activity segments include national initiatives, sports and games, cultural activities, professional self initiatives, entrepreneurship and innovation, and leadership and management. Colleges must verify and document the activity points earned by students, and additional activities can be considered with approval from the Academic Committee of the KTU.

Activity point details of each category, including the activity points allocated to different levels and all relevant details:

#### **### Sports & Games Participation:**

- **\*\*Level I:\*\***

- Participation: 8 points

- 1st Prize: 10 points (additional points for Level IV and V winners, maximum limit enhanced to 80)

- 2nd Prize: 8 points

- 3rd Prize: 5 points

- **\*\*Level II:\*\***

- Participation: 15 points
- 1st Prize: 10 points (additional points for Level IV and V winners, maximum limit enhanced to 80)
- 2nd Prize: 8 points
- 3rd Prize: 5 points
  
- **\*\*Level III:\*\***
- Participation: 25 points
- 1st Prize: 10 points (additional points for Level IV and V winners, maximum limit enhanced to 80)
- 2nd Prize: 8 points
- 3rd Prize: 5 points
  
- **\*\*Level IV:\*\***
- Participation: 40 points
- 1st Prize: 20 points (maximum limit enhanced to 80)
- 2nd Prize: 16 points
- 3rd Prize: 12 points
  
- **\*\*Level V:\*\***
- Participation: 60 points
- 1st Prize: 20 points (maximum limit enhanced to 80)
- 2nd Prize: 16 points
- 3rd Prize: 12 points

These activity points represent the recognition and rewards for achievements in sports and games participation, with varying levels of participation and prizes.

### ### Cultural Activities Participation:

- **\*\*Level I:\*\***
- Participation: 8 points
- 1st Prize: 10 points (additional points for Level IV and V winners, maximum limit enhanced to 80)
- 2nd Prize: 8 points
- 3rd Prize: 5 points
  
- **\*\*Level II:\*\***
- Participation: 12 points
- 1st Prize: 10 points (additional points for Level IV and V winners, maximum limit enhanced to 80)
- 2nd Prize: 8 points
- 3rd Prize: 5 points
  
- **\*\*Level III:\*\***

- Participation: 20 points
- 1st Prize: 10 points (additional points for Level IV and V winners, maximum limit enhanced to

80)

- 2nd Prize: 8 points
- 3rd Prize: 5 points

- **Level IV:**

- Participation: 40 points
- 1st Prize: 20 points (maximum limit enhanced to 80)
- 2nd Prize: 16 points
- 3rd Prize: 12 points

- **Level V:**

- Participation: 60 points
- 1st Prize: 20 points (maximum limit enhanced to 80)
- 2nd Prize: 16 points
- 3rd Prize: 12 points

These points represent the recognition and rewards for achievements in cultural activities participation, with varying levels of participation and prizes.

**Professional Self Initiatives:**

- **Tech Fest, Tech Quiz:**

- Level I: 10 points
- Level II: 20 points
- Level III: 30 points
- Level IV: 40 points
- Level V: 50 points

- **MOOC with final assessment certificate:**

- Level I to V: 50 points

- **Competitions conducted by Professional Societies (IEEE, IET, ASME, SAE, NASA etc.):**

- Level I: 10 points
- Level II: 15 points
- Level III: 20 points
- Level IV: 30 points
- Level V: 40 points

- **Attending Full-time**

Conference/Seminars/Exhibitions/Workshop/STTP  
IITs/NITs:

conducted at

- Level I to V: 15 points

- **Attending Full-time Conference/Seminars/Exhibitions/Workshop/STTP conducted at KTU or its affiliated institutes:**

- Level I to V: 6 points



- **Paper presentation/publication at IITs/NITs.**

- Level I to V: 20 points
- Additional 10 points for certificate of recognition.
  
- **\*\*Paper presentation/publication at KTU or its affiliated institutes:\*\***
  - Level I: 8 points
  - Additional 2 points for certificate of recognition.
  
- **\*\*Poster Presentation at IITs/NITs:\*\***
  - Level I to V: 10 points
  - Additional 10 points for certificate of recognition.
  
- **\*\*Poster Presentation at KTU or its affiliated institutes:\*\***
  - Level I to V: 4 points
  - Additional 2 points for certificate of recognition.
  
- **\*\*Industrial Training/Internship (at least for 5 full days):\*\***
  - Level I to V: 20 points
  
- **\*\*Industrial/Exhibition visits:\*\***
  - Level I to V: 5 points
  
- **\*\*Foreign**

Language Skill (TOEFL/IELTS/BEC exams etc.):\*\*

- Level I to V: 50 points

These points represent the recognition and rewards for various professional self-initiatives, such as participating in competitions, attending conferences, presenting papers, and developing skills.

#### ### Entrepreneurship and Innovation:

- Points are allocated based on various achievements, such as registering a start-up, patenting, prototyping, receiving awards, and more, across Levels I to V.

These points represent the recognition and rewards for entrepreneurial and innovative achievements, with increasing rewards as achievements reach higher levels.

#### ### Leadership & Management:

- Points are allocated for different roles and responsibilities within the institution, such as core coordinators, sub-coordinators, volunteers, association chapters, event organizers, hobby club members, and elected student representatives, across Levels I to V.

These points represent the recognition and rewards for leadership and management roles at different levels within the institution, with increasing responsibilities and rewards as roles progress to higher levels.

