

# Centre for Professional and Advanced Studies

Prospectus

2022-23



## University College of Engineering Muttom, Thodupuzha

Idukki- 685587

Website: [www.ucet.ac.in](http://www.ucet.ac.in)

Email: [principal@ucet.ac.in](mailto:principal@ucet.ac.in), [ucetdp@cpas.ac.in](mailto:ucetdp@cpas.ac.in)

Phone Office: 04862 256222

Principal: 04862 256534

**University College of Engineering (UCE)**, located near Thodupuzha, is a premier institute of Engineering and Technology which is being run and managed by the *Centre for Professional and Advanced Studies (CPAS)*, Kottayam, Kerala. This institute started functioning in 1996 at Thodupuzha and was later moved to its own campus at Muttom in May 2002. The programmes conducted by the college have been approved by the All India Council for Technical Education (AICTE), New Delhi. The courses are affiliated to *APJ Abdul Kalam Technological University* from 2018 admission. All the previous batches were affiliated to Mahatma Gandhi University.

## **Vision, mission and objectives of the institution**

**Mission:** Quality education and research improves the quality of life.

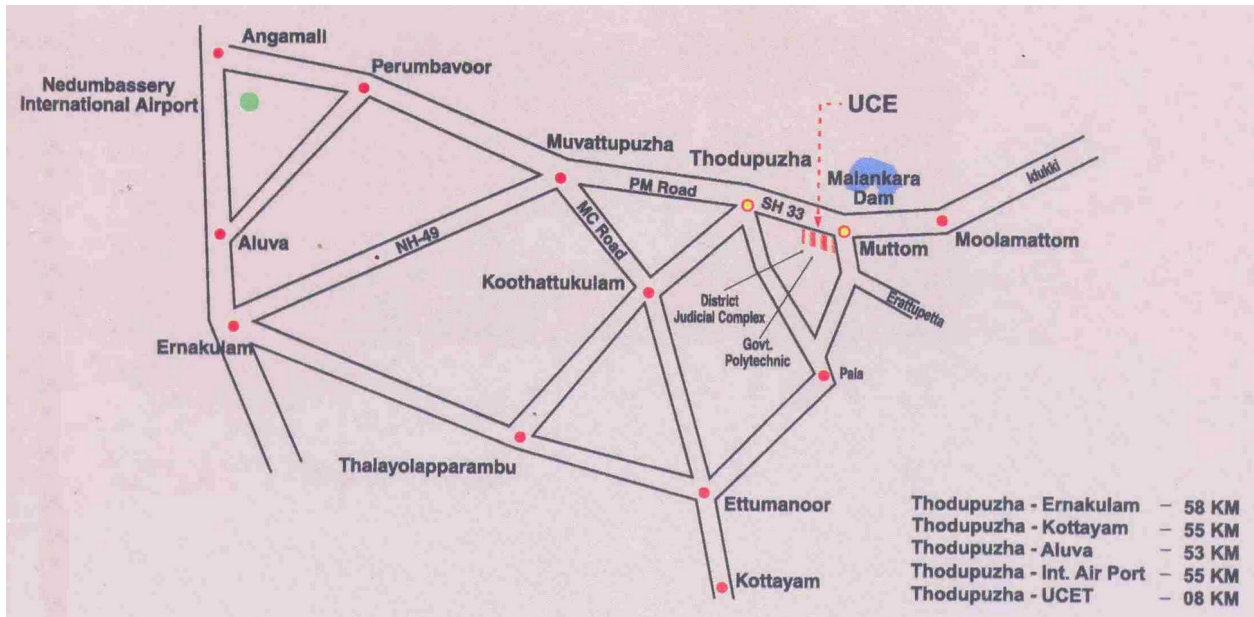
**Vision:** Ensuring an environment friendly and technologically advanced society through the pursuit of engineering education and research. Also support students in career placements by giving them appropriate training.

### **Objectives:**

- To be a centre of excellence in engineering education.
- Foster effective capabilities for the development of high quality technical and scientific manpower.
- Instill communicative and character skills to excel in leadership roles.
- Support students in career placements by giving them appropriate training.

## **UCE Campus Location**

The college campus is located at a picturesque place spread over 25 acres of land at Muttom, 8km from Thodupuzha, by the side of State Highway No 33. The nearest attraction is the ***Malankara Dam*** which is constructed across the waters from the tailrace of Moolamattom Power House. The main entrance to the dam is very close to the main gate of the college; just 20 meter away across the road.



**Malankara Dam**

## COURSES CONDUCTED

The college conducts B.Tech. programmes affiliated to A.P.J. Abdul Kalam Technological University (KTU), Thiruvananthapuram.

<b>I. B.Tech. FIRST YEAR ADMISSION</b>					
Sl. No.	Branch	Duration	Sanctioned seats + Tuition Fee Waiver	Eligibility	Selection
1	B.Tech. Computer Science & Engg.	4 year	60 + 3	<p><i>The eligibility for admission is based on the rules given in the prospectus of KEAM 2022 and amendments issued by Govt from time to time.</i></p> <p><b><u>GOVT. SEAT</u></b></p> <ul style="list-style-type: none"> <li>• Rank secured in the entrance exam conducted by the Commissioner for Entrance Exams.</li> <li>• Pass the Higher Secondary (or equivalent) Exam, with 45% marks in Mathematics, Physics and Chemistry put together.</li> <li>• If the candidate has not studied Chemistry, the marks obtained in Computer Science shall be considered.</li> <li>• If the candidate has not studied Chemistry and Computer Science, the marks obtained in Biotechnology shall be considered.</li> <li>• If the candidate has not studied Chemistry, Computer Science and Biotechnology, the marks obtained in Biology shall be considered.</li> <li>• <u>Relaxation of Marks:</u> SC/ST/SEBC/OEC/ candidates included in the PwD quota, the minimum marks required for admission shall be 5% less than that prescribed for general category.</li> </ul>	<ul style="list-style-type: none"> <li>• 95% seats will be filled by the Commissioner for Entrance Exams (CEE), Govt of Kerala</li> <li>• Remaining 5% NRI seats will be filled by CPAS/ college</li> <li>• Three TFW seats will be filled by the CEE</li> <li>• Vacant seats (if any) after CEE admission will be filled by Spot Admission as per directions of the Govt.</li> </ul>
2	B.Tech. Electrical & Electronics Engg.	4 year	60 + 3		
3	B.Tech. Electronics & Communication Engg.	4 year	60 + 3		
4	B.Tech. Polymer Engg.	4 year	60 + 3		

5	B.Tech. Cyber Security (Awaiting KTU affiliation)	4 year	60 + 3	<p><b><u>NRI SEAT</u></b></p> <ul style="list-style-type: none"> <li>• Candidates who have passed higher secondary (or equivalent) exam with 45% marks in Mathematics, Physics and Chemistry put together.*</li> <li>• Entrance Rank is not required.</li> </ul> <p><i>*Eligibility may vary as per the amendments issued by Govt/ Management from time to time.</i></p> <p><b><u>TUITION FEE WAIVER (TFW) SEAT</u></b></p> <p>Based on entrance rank of students and the annual income of parents.</p>	
---	---	--------	--------	---	--

**II. B. TECH 2<sup>nd</sup> YEAR (LATERAL ENTRY) ADMISSION**

	Branches as above	3 year	6 + lapsed seats of 1 <sup>st</sup> year	<p><i>Eligibility is based on the rules given in the prospectus for B.Tech. Lateral Entry course- 2022-23, published by the Govt. of Kerala.</i></p> <ul style="list-style-type: none"> <li>• Candidates who have passed Diploma in Engineering/ Technology awarded by any State Board of Technical Education, or Institutions under Govt. of India after undergoing regular course of 3 years are eligible for writing the Entrance Exam (<i>if any</i>)</li> <li>• The admission will be subject to regulations of the University.</li> </ul>	<ul style="list-style-type: none"> <li>• As per the rank list prepared by the Entrance Officer, Govt of Kerala</li> <li>• Vacant seats (<i>if any</i>) after Govt. admission will be filled by Spot Admission as per directions of the Govt.</li> </ul>
--	-------------------	--------	--	---	---

## **Fees for B.Tech. Courses**

The tuition fees and special fees for each course are given below.

Description	<b>Govt. Seat</b> (Rs/-)				<b>NRI Seat</b> (Rs/-)				<b>Tuition Fee Waiver Seat</b> (AICTE scheme) (Rs/-)			
	I year	II year	III year	IV year	I year	II year	III year	IV year	I year	II year	III year	IV year
Admission fee	<b>500</b>	-	-	-	<b>500</b>	-	-	-	<b>500</b>	-	-	-
Administration fee for KTU	<b>1000</b>	-	-	-	<b>1000</b>	-	-	-	<b>1000</b>	-	-	-
Affiliation fee for KTU	<b>750</b>	-	-	-	<b>750</b>	-	-	-	<b>750</b>	-	-	-
Sports and Arts fees (KTU)	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>
Caution deposit (refundable as per rules)	<b>5000</b>	-	-	-	<b>5000</b>	-	-	-	<b>5000</b>	-	-	-
<b>Special fee</b>												
Lab fee	250	250	250	250	250	250	250	250	250	250	250	250
Library fee	150	150	150	150	150	150	150	150	150	150	150	150
Stationery fee	50	50	50	50	50	50	50	50	50	50	50	50
Game fee	170	170	170	170	170	170	170	170	170	170	170	170
Magazine fee	50	50	50	50	50	50	50	50	50	50	50	50
Terminal exam fee	50	50	50	50	50	50	50	50	50	50	50	50
University Union fee	100	100	100	100	100	100	100	100	100	100	100	100
College union fee	50	50	50	50	50	50	50	50	50	50	50	50
Student amenities	50	50	50	50	50	50	50	50	50	50	50	50
Department association fee	50	50	50	50	50	50	50	50	50	50	50	50
Career guidance and placement	250	250	250	250	250	250	250	250	250	250	250	250
Student accident insurance	50	50	50	50	50	50	50	50	50	50	50	50
Youth festival fee	200	200	200	200	200	200	200	200	200	200	200	200
Medical fee	30	30	30	30	30	30	30	30	30	30	30	30
<b>Total special fee</b>	<b>9250</b>	<b>2000</b>	<b>2000</b>	<b>2000</b>	<b>9250</b>	<b>2000</b>	<b>2000</b>	<b>2000</b>	<b>9250</b>	<b>2000</b>	<b>2000</b>	<b>2000</b>
<b>Tuition fee</b>	<b>35,000</b>	<b>35,000</b>	<b>35,000</b>	<b>35,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	-	-	-	-
<b>Grand Total</b>	<b>44250</b>	<b>37000</b>	<b>37000</b>	<b>37000</b>	<b>59250</b>	<b>52000</b>	<b>52000</b>	<b>52000</b>	<b>9250</b>	<b>2000</b>	<b>2000</b>	<b>2000</b>

### **Fee Structure for SC/ST/OEC Students**

Description	Govt. Seat (Rs/-)			
	I year	II year	III year	IV year
Admission fee	500	-	-	-

## **Information About NRI Quota**

1. 5% seats in each branch is reserved for students sponsored by Non-resident Indians (NRIs).
2. Candidates seeking admission in NRI quota shall visit [www.cpas.ac.in](http://www.cpas.ac.in) to apply online and send the print out (via post) to the Principal, University College of Engineering, Muttom, Thodupuzha- 685587. Ensure that the print out is received by the addressee before the deadline. The deadline will be notified on the website. A copy of this print out has to be retained by the candidate for future reference.
3. Candidates applying for NRI quota shall remit an application fee of Rs 750/-.
4. The applications shall submit the following documents at the time of admission. Sponsorship certificate, Employment certificate attested by the consulate/embassy, certificate regarding relationship with the applicant, copies of the relevant pages of passport of the sponsor, etc.
5. No request for change from NRI quota to general category will be considered in future.
6. The admission will be based on a separate rank list prepared on the basis of marks of the qualifying exams. No rounding off of the percentage marks to the nearest whole number is permitted.
7. The unfilled seats in NRI quota will be converted into general category.
8. The candidate should attend the admission counseling at their own expense. If he/she fails to appear for the same or remit the fee in time, he/she will lose the chance.

## **Tuition Fee Waiver (TFW) scheme**

As per the directions of AICTE, up to 5% of the sanctioned intake per course shall be available for the Tuition Fee Waiver scheme. These seats are supernumerary in nature. The Commissioner for Entrance Examinations (CEE) admits students in this category, based on merit of students and annual income of parents. The selected students need not pay the tuition fees; but need to pay all other fees of the institution.

## **CPAS Scholarship scheme**

Two seats in each B.Tech. branch of this college are reserved for admitting meritorious students (below 10000 rank in KEAM rank list) with the same tuition fee charged by the Government Engineering Colleges in Kerala.



## **General Information**

1. The examination fee shall be remitted by each student to the university at the time of respective exams.
2. SC/ST/OEC students are exempted from examination fee as per Govt. norms.
3. Caution deposit shall be returned only on the completion of the course, after adjusting liabilities, if any.
4. GENERAL/SEBC students get scholarships through E-Grantz, Govt of Kerala, based on annual income.
5. Children of *Fisherman* get full scholarships through E-Grantz, Govt of Kerala, so as to cover the entire fees (excluding caution deposit and PTA contribution).
6. **How to remit the fees:** All fee payment should be through State Bank Collect link provided on the CPAS website. The fee shall be paid using Credit/Debit card or Net Banking or at SBI with the challan generated from the online transaction.
7. **Schedule of remittance:** Fee for the first semester/half year is to be remitted at the time of admission. For all subsequent semesters/half years, fee should be remitted without fine within the Fifth working day of May/June for the II, IV, VI, and VIII semesters/half years and the Fifth working day of December/January for the III, V, and VII semesters/half years; and there after within ten days with a fine of Rs. 100/-. A fine of Rs.10/- per day including holidays will be levied from the last day of remittance of the fine of Rs.100/-. This is applicable for online payment done at prior date but submitted after the last day of remittance without fine. However, the students are required to remit the fee within the cut off date mentioned by CPAS.

## **Department of Computer Science & Engineering**

The course is designed to keep students at pace with the practical field. It is our objective that student should be able to pursue advanced studies in Computer Science on a competitive universal basis. The focus is on holistic learning and empowering students to make significant contributions at all levels through theory classes, laboratory sessions, seminar presentations and project work. The system of electives gives choices for students to develop expertise in their area of interest. The course is intended to cater to the ever changing demands of software industry.

## **Department of Electrical & Electronics Engineering**

This department was introduced in 2002. In a short period, the department has turned out to be an enviable asset of the college with its dedicated and supportive faculty, good laboratory facilities, hardworking and energetic students. The department aims to equip the students with advanced knowledge in the field of Electrical and Electronics Engineering as well as professional skills necessary to face the challenges of the future.



## **Department of Electronics & Communication Engineering**

While fulfilling the requirements of the syllabus prescribed by the University, the course goes much further and offers students the opportunity to work on diverse hardware and software platforms. The curriculum is designed so as to give adequate emphasis on the Analog and Digital processing of information. The core programme is supplemented and further reinforced by a well-chosen set of elective courses. .

## **Department of Polymer Engineering**

This department is unique in the field of Polymer science and technology education in the country. The B.Tech. Polymer Engineering course was initiated to meet the requirements of rubber and plastic industries. Polymer Engineering is a field that is growing every moment and has greater scope in future. The students are professionally trained in various industries in and out of the state, thereby nourishing themselves with the skill and expertise. Most of the alumni are in key positions in various industries as well as in Government undertakings.

## **Department of Cyber Security**

This is a unique programme in KTU, which imparts knowledge about processes and practices designed to protect networks, computers, programs and data from attack, damage or unauthorized access. The programme addresses the underlying need for cyber experts as the country is heading towards an internet explosion mostly fueled by e-commerce, e-banking, e-governance and social media. This course seeks in-depth specialization in the fields of cyber security, cyber threat intelligence and digital forensics. One can gain advanced and in-depth knowledge of penetration testing, cyber forensics, and malware analysis and software vulnerability.

## **Placements and Training at UCE**

The Placement and Training Cell of UCE is headed by a senior faculty member. The cell concentrates on the following:

Conducting Aptitude Tests- Numerical, Logical Reasoning, Verbal Ability etc., Conducts Technical Aptitude Tests, Group Discussion Training, Preparation for GATE and CAT, Mock-tests by reputed firms, Personality Development Programmes, Communication Skill Development, Interview Training, co-ordinates various Campus Placement Pool Drives by Multinational Companies in addition to Pre Placement Training activities. The cell also facilitates associations with industries /Industrial Training which helps in bridging Industry- Academia Gap.

### ***Warning against Ragging***

As per Supreme court/AICTE/UGC directions, if a student is found guilty in a ragging complaint, it will be viewed seriously and stringent disciplinary action will be taken, including expulsion from the college.