To become a world leader in higher education and research, in the field of Information Technology.

**V S I O N**

- To impart state-of-the-art knowledge in the field of Information Technology with a focus on developing required competencies and virtues to meet the requirements of the society and to become a centre of excellence in this field.

- To attract graduate, post-graduate, and research students and train them in innovative areas so that, they can impress various recruiters from industry and academia and also become entrepreneurs in Information Technology.
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Cochin University of Science and Technology (CUSAT) founded on 10th July 1971 as the University of Cochin, is a state government-owned autonomous university in Kochi, Kerala, India. The university was emerged through an act of the Kerala Legislature, as the result of a campaign for postgraduate education in the state. Later in February 1986, it was renamed Cochin University of Science and Technology (CUSAT).

The student community comprises of 9000+ students admitted to the 3 campuses, namely “Main campus Thrikkakara, Kalamassery”, “Lakeside campus” and “Pulinkunnu campus, Kuttanad”. The institute provides a total of 28 departments through all the campuses. Within the domains provided, 1000+ Research Scholars were brought about by the university.

CUSAT is now a world-ranking university with the specific purpose of developing higher education, emphasizing post-graduate studies and research in applied science, technology, industry, humanities, and commerce. The University has entered into several collaborative ventures with reputed Universities and Institutions worldwide. National and International academic discourses, seminars, workshops, etc., being held yearly in the University, provides opportunities to the student community to update themselves in their respective fields of study.
CUSAT Ranking

CUSAT has consecutively been figured in the Times Higher Education World Ranking since 2017. The Times would rank about 1500 around the world every year and 60 out of 967 Indian Universities would find a place in the list. CUSAT is placed at the 34th position in the Indian Universities ranking and a 1001+ position in World Universities ranking and 401+ position in Asian Universities ranking for the year 2021. The University has also found a place in the QS World University ranking.

The National Institutional Ranking Framework (NIRF) of the Government of India has given the 62nd rank University wise for CUSAT and 178th rank for School of Engineering in the ranking of engineering colleges.

The Cochin University of Science and Technology has been re-accredited with an 'A' grade by the National Assessment and Accreditation Council (NAAC)
The School of Engineering is located in the University-Main Campus in South Kalamassery, Kochi, was established in 1978 to offer part-time M. Tech programmes in the major disciplines of engineering and soon introduced B. Tech programmes and research activities. The campus houses various divisions of engineering and corresponding well-equipped labs and workshops. It has been highly regarded as a research centre and has established state-of-the-art laboratories for the same. Having more than 2600 students, the School of Engineering is the largest academic constituent Department of the University.

The Cochin University College of Engineering Kuttanad (CUCEK) is located in Kuttanad, Alappuzha District at a distance of 65 km from the Main Campus. It is situated in beautiful 42-acre campus surrounded by water scenery, temples, and churches. It was formally inaugurated on 25th of October 1999. The five-storied main building of CUCEK was opened by the then Chief Minister of Kerala, Sri. V S Achuthanandan, on 9th January 2010.
OPEN AIR AUDITORIUM

The Open Air Auditorium is the venue where many of the University fests, programmes, and activities take place. It has a crowd capacity of 1000+. Many high-profile concerts and events have been hosted here.

AMENITY CENTRE

The Students Amenity Centre was inaugurated by Dr. Shashi Tharoor, the then Minister of State for HRD, Govt. of India on 21st November 2013. The total area of the centre is 3795.44 square metres. It is a hub of many co-curricular activities and has a badminton court and a gym. It also houses many offices like the Youth Welfare office, Hostel Affairs office as well as the University Health Centre.

LIBRARY

- The first university library in the state of Kerala to be fully automated in the year 2000
- 95000+ resources covering all major areas of learning
  - 145 print periodicals, patents, theses, and 750+ e-books
- Campus-wide IP enabled access to its digital library
- Efficient and systematic book-keeping services
B.Tech (Bachelor of Technology)

B.Tech. in Information Technology was introduced by the School of Engineering (SOE) in 1995 and is approved by the All India Council for Technical Education (AICTE) with accreditation for 2 years by NBA under Tier-I. They offer an annual intake of 60 students in the SOE and 45 students in the CUCEK with a course duration of 4 years. Every four years, changes are made in courses and new schemes are introduced to make the students aware of the latest technologies in this growing field. The program is designed to develop a practical understanding of the technologies and acquire expertise for a successful career.

M.Tech (Master of Technology)

It was started by the division of IT in 2013 and provides an Industry oriented M.Tech. a course that includes software engineering, software systems, computer and information science and is also approved by AICTE. Students with a valid GATE score or who passed the Departmental Admission Test (DAT) are eligible to sit for admission. Division also provides a GATE stipend for students who secure admission through GATE scores. M.Tech. The syllabus and Curriculum are regularly updated so that students are up-to-date with the latest developments in this area of expertise. In the past, students of M.Tech. Software Systems secured placement/ internship in several multinational companies like Oracle, Amazon, SAP Labs, TCS, etc.
PhD (Doctor of Philosophy)

Different PhD programs offered are:

1. Big-Data centric computing for Hadoop systems.
2. Improvement of Data Security by enhancing Randomness of TDMRC code.
5. An Efficient Mixed Mode-Paired Ciphertext Cryptography Algorithm based on Three Hard Mathematical Problems.
6. Program slicing for Program testing, Artificial Intelligence.
7. Data Mining, Global software development metrics.
B.Tech in Information Technology was introduced in 1995. Information Technology deals with different core areas such as programming, networking, web systems, information management, and human-computer interaction. The department molds young outstanding engineers who are academically strong in both theory and practical. The department offers a B.Tech programme in Information technology. Areas of research include Computer graphics, Real-time systems, Distributed Computing, Management Information Systems, and Electronic Data Interchange Technology.

HISTORY

OUR ALUMNI

Name: Lini Alim  
Company: Apple Inc  
Role: Application Lead

“I earned my Bachelors in Information Technology from CUSAT. The course empowered me with technology and management skills essential in the software industry. In today's rapidly changing IT field, the unique nature of the program prepared me for a specialized career. With the specific domains covered in the program, I was equipped to explore areas such as computer programming, application design, business intelligence, and data security.”
Name: **Payal Rani**  
Company: **Microsoft**  
Role: **Senior Software Engineer**

“

The B.Tech programme offered by the Department of IT at CUSAT provided a solid foundation to start my career in the Software Industry. The courses offered are an eclectic mix of theoretical and practical aspects of Software Engineering. The pedagogy is in sync with the industry standard and equips students well to solve real-world challenges. At Cochin University, I have developed a lifelong love for learning, which is still helping me grow and stay on top of the dynamic IT industry.

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Name: **MD Faizan**  
Company: **Amazon**  
Role: **SDE 1**

“

The four years of my life at CUSAT have been nothing but perfect in its own impeccable way. The teachers pushed me in my studies as well as the extracurricular activities of conducting coding classes, helping me build a strong community of code lovers which I nurture with all my love and care. The whole experience of pursuing my interest and living my life at the campus has built the person I am today.

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Name: **Muhammed Shabin**  
Company: **Techstars Ventures Denver**  
Role: **Global Startup Analyst**

“

Hey, I am Shibin from the batch 2015-2019. Currently working with Techstars Ventures as Global Startup Analyst for 50+ startup accelerators across the world. I can never forget the contributions of the IT department & my faculties towards helping me to explore and experiment with different career opportunities during my college days. They do really care about students who want to do challenging and exceptional things in their careers, especially in entrepreneurship and innovation.

”
Name: Joseph Kanjirakkattu  
Company: SCBU Team, AMD  
Role: Power performance lead

"Having spent four years in this esteemed institution, I have witnessed a tremendous change in my life, may it be on the academic front or even on a personal level. The campus, surrounded by beautiful greenery provides an ideal platform for growth and improvement leading to the formation of bright young individuals determined to make an impact in the coming future."

Name: Rajani Lucy Chacko  
Company: Infosys  
Role: Sr Project/ Program manager

"Looking back, I have fond memories of my engineering days at CUSAT. Along with a good, holistic and relevant curriculum, the faculty also made sure we had an inclusive and enabling environment for learning and growth. The IT Fests and other events conducted under the guidance of the department played a strong part in developing our interpersonal, organisational and leadership skills. Also, thanks to the campus recruitment program at CUSAT, I was able to kickstart my career with TCS right after my engineering course. Indeed proud to be an alumnus of CUSAT, BTech IT!"

Name: Jeen Geevar  
Company: Cognizant Technology Solutions  
Role: Director, Internet of Things

"Hi I am Jeen Geevar. I am a proud Alumnus CUCEK 1999-2003 IT batch. Excited to share the fact that I am the first admission to the college when it started. I still remember the bold decision I made during the admission process to select CUCEK as the first option. And very happy to say that, that has been one of the best decisions in life till date. CUCEK gave me a lot of freedom to be myself all throughout the 4 years. Teacher-Student relationship was at its best. This has helped a long way in shaping our character towards mutual respect. And if there is one word which abstracts all the take away from CUCEK time other than the degree you obtain, that is "Endurance". Standing boldly, fighting to overcome any obstacles, winning, avoiding the fear of loss, all these traits we have learned from CUCEK and it continue to help me throughout my career and personal life. All the best for all of you at CUCEK. Cherish those moments while being there. In future, I am sure that you will always hope to have spent more time there."
**Sithara A**
**Company:** DRDO  
**Role:** Scientist

I am a proud alumnus of SOE, Cusat and I belong to the second batch of IT (1999-2003) which consisted of 80 enthusiastic batchmates from diverse backgrounds. Success is a journey, not the destination and SOE has been consistent in making our journey mesmerizing. It is the place that shaped us to the place which we are right now. In our four years in this wonderful institute, SOE has given us the chance to explore our potentials without inhibitions, build our skills and evolve in diverse domains. State of the art and well-managed computing facilities, knowledgeable faculty, good student-faculty ratio, and a solid base of theory cum practical based learning approaches have made the overall experience at SOE an enriching one. To any new student coming to SOE, Cusat, I would say this- “take every chance you get here, because the memories you make here, are going to last you a lifetime. For anyone who yearns to learn, to explore, and to evolve, SOE is indeed the place to be.”

**Kanu Aravind**
**Company:** IBS  
**Role:** Associate Vice President

At CUSAT, I learnt the value of taking risks, ownership, and having single minded focus, when we conducted our own state wide IT fest. Creating our own campus video when the norm was a two page brochure and to convince the IT corridors of Technopark was a case study in taking bold steps and aiming higher. My class representative experience was the first lessons in leadership and how to handle different voices and reach a productive conclusion. The mix of arts, sports and games along with academics gave me the right perspective and balance. I carried forward some of those perspectives into my professional career, where I could balance between core business objectives and a great place to work. Camaraderie and friendships I enjoyed during those years gave me life long lessons in human relationships, which I maintain to this day.

**Anoop Surendran**
**Company:** Tata Consultancy Services  
**Role:** User Experience Consultant

4 years at CUSAT campus was truly enriching and life altering for me. The perfect mix of high quality teaching staff, world class infrastructure, and an emphasis on extracurricular activities helped me to mould myself as the person and the professional that I am today. My teachers spotted my creative abilities and motivated me to choose Design as my career choice!
RESEARCH AREAS OF FACULTIES

Dr. Binsu C Kovoor
Research Areas:
Computer Vision, Machine Learning, IoT, Computational Geometry, Big Data Image And Video Processing

Ms. Jayaprabha P
Research Areas:
Data Mining, Web Usage Mining, Network Security

Ms. Sariga Raj
Research Areas:
Author Identification, Text Classification

Dr. Harikrishnan D
Research Areas:
Biometric Security, Networking, Object Oriented Design

Dr. Renumol V G
Research Areas:
Computing Education, Educational Technology, Inclusive Education, Cognitive Psychology

Mr. Jabin K V T
Research Areas:
Cloud Computing, Software Engineering

Dr. Shelbi Joseph
Research Areas:
Software Engineering, Internet Of Things, Big Data, Recommender Systems

Dr. Daleesha M Viswanathan
Research Areas:
Affective Computing, Pattern Recognition, Network On Chip (NoC)

Dr. Santosh Kumar M B
Research Areas:
Knowledge Based Systems, Blockchain, IoT Digital Twinning In Agriculture
Student Exchange Programs are one of the rarest opportunities a student can get for experiencing different cultures and perspectives, including new traditions and customs, and meeting new people. Fully embracing these opportunities has allowed students to step out from their comfort zones and adapt themselves to unfamiliar situations.

Our university is dedicated to providing students with such intriguing opportunities by conducting Student Exchange Programs with several outstanding universities like:-

- Nation Ilan University, Taiwan
- Old Dominion University, Japan
- Niigata University, Tokyo, Japan
- Louisiana State University, USA
- Shimane University, Japan
As the saying goes 'The best mechanic deserves the best tools', the university has always seen to it that the students are aided by labs equipped with the latest and the best facilities out there. These are the details of the research facilities provided:
SYLLABUS IN PAR WITH INDUSTRY 4.0

Every 4 years the university updates the syllabus. The syllabus is designed in a project oriented way and is set to meet the requirements of the current industry. Updation of syllabus is executed after a thorough study of the current trends and expectations of the technical industry. After 2015, the syllabus was updated during 2019 and was equipped in such a way that it prepares the students for **Industry 4.0**

Syllabus Includes:

01. Cybersecurity
02. Internet Of Things
03. Cloud Computing
04. System Integration
05. Autonomous Robots
06. Big Data
07. Augmented Reality
08. AI/ML
09. Agile Methodology

Industry Based Elective:

01. Augmented Reality
02. DevOps Engineering
03. Mobile Computing Technology
04. High Performance Computing Architecture
**ARTS AND FESTS**

**Sattva**

Sattva is the arts and sports fest started in the year 2013, held annually at CUCEK. The events are conducted as a platform for the students to display their talents in various events of arts and sports. Here the events are conducted branch-wise and the winning branch is awarded the rolling trophy.

**Dhishna**

Dhishna is the techno-cultural pageant held annually at SOE CUSAT. It provides a platform to showcase various modern and innovative ideas of engineering applications that could be transformed into reality. Dhishna has grown significantly due to the quality of the technical and cultural programs being showcased every year.

**Sargam**

Sargam is the annual inter-collegiate youth festival of CUSAT, which features unique, converging artistic talents from north Kasargod to Trivandrum in the south. The talented youths, setting aside their scholastic activities and academic pursuits, come to celebrate the annual cultural fest.
| **CLUBS** |
|-----------------|--------------------------------------------------------------------------------------------------|
| **CUSAT Hack Club** | CUSAT Hack Club is a chapter of the international non-profit Hack Club, which is a global nonprofit network of technology enthusiasts. It is a developers club where people learn to code entirely through building things. |
| **IEEE** | The IEEE CUSAT has a well-established student branch with an emphasis on learning and networking. The club consists of 50 plus members who engage in developing critical skills and career-building. |
| **Women Techmakers** | A chapter of Google's Women Techmakers program, the club provides visibility, community, and resources for women in technology. The club is committed to empowering women in technology through focused initiatives. |
| **TinkerHub CUSAT and CUCEK** | TinkerHub was registered as a non-profit in 2016. TinkerHub gives students exposure to internships, career opportunities, and scholarships around the world and a hands-on learning experience. |
| **GDSC** | Google Developer Student Clubs is a community group for students interested in Google developer technologies. It is a community that unites students who are keen to learn and solve problems. |
| **Hack Club CUCEK** | Hack Club Cucek is a chapter of the international non-profit Hack Club at Cucek. The major programmes conducted by the club include Hacktoberfest where they conducted sessions on Github, Python, UI/UX, and penetration tests. |
CITTIC

The Centre for Innovation Technology Transfer and Industrial Collaboration has the vision to be a nodal centre for translating the fruits of academic research into products and services for the benefit of society. This is an established centre for CUSAT and its members, industry, entrepreneurs, the government of Kerala, other government-sponsored research Institutions/universities, and the general public with a mission to facilitate the formation of emerging technology and businesses by leveraging the expertise of CUSAT. It provides a base for technology businesses that enables entrepreneurial companies’ growth and successful development through an array of business support resources and services.

CITTIC has objectives to facilitate the protection and transfer of university-created discoveries into new products and services, promote regional economic growth and job creation and enhance the relationship with industry by identifying a range of models for collaboration with the university. It also generates new funding support for the university by actively facilitating the formation of university-connected start-up companies promoting small/singly owned entrepreneurial ventures.
TRAINING AND PLACEMENT CELL

Placement Process

The Training and Placement cell of School of Engineering is the main body that centrally coordinates the placement process of multiple departments on the campus. The Placement cell acts as an interface between the departments and companies, thereby coordinating the placement process meticulously and smoothly. The placement cell coordinators including the placement officer, staff, student coordinators work around the year with recruiters to maintain cordial relationships with them, the result of which is the impressive placement record and the high number of recruiters coming in every placement season.

Procedure

INVITATION:
The Placement Officer sends invitations to various companies and organisations along with the brochures of the departments.

NOTIFICATION TO STUDENTS:
Students are notified the job profile and the eligibility and those who are interested complete the registration process with the placement cell. This list is forwarded to the companies for further short-listing and scheduling purposes.

REVERTING WITH RESPONSE FORM:
Companies interested in hiring fill the job announcement form (Pre-Visit Response) with details including job descriptions, streams, eligibility criteria, and their selection procedures.

THE PLACEMENT DRIVE:
The placement cell and the companies mutually discuss and agree on the schedule of the placement process and the placement cell intimidates the student about the same. The companies reach the campus on the days scheduled and conduct placement drives as per their decided norms.
CUSAT campus is situated in KALAMASSERY and is about 10km from Aluva and 12km from Ernakulam. If you are coming by train you could get off at Aluva or Ernakulum (Ernakulum Junction or Ernakulum Town). From there you can reach south Kalamassery by city bus. Auto/Cab service can also be availed.

**Contact Us**

**Prof.(Dr.) Jacob Elias**
Chief Placement Officer

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