



OFFICE OF INTERNATIONAL RELATIONS



INDIAN INSTITUTE
OF TECHNOLOGY
PALAKKAD



WHY IIT PALAKKAD

Established by the Government of India in 2015 in Palakkad, the gateway to the state of Kerala, India. IIT Palakkad is one of the 3rd generation IITs with 120 faculty, 1300 students and 80 administrative & supporting staff; a campus of about 575 acres, located with a beautiful Western Ghats in the backdrop.

- Embraces a vision to be a leader in cross-disciplinary inquiries
- Recognizes collective growth, in collaboration with industry and other academic institutions, as the need of the time
- Emphasizes blue sky research and directed research as two essential pillars of technology development
- Targets to become a multi-disciplinary institution with a population of 5000 students in 10 years
- Home to the best minds from across the globe

ACADEMIC DEPARTMENTS

- Biological Sciences and Engineering
- Chemistry
- Civil Engineering
- Computer Science and Engineering
- Data Science
- Electrical Engineering
- Humanities and Social Sciences
- Mathematics
- Mechanical Engineering
- Physics
- Environmental Sciences and Sustainable Engineering Centre

ACADEMIC PROGRAMS

- 4-year Bachelors
- 2-year Masters': M.Sc, M. Tech
- Research-based: Masters' by Research (MS), Ph.D.

THRUST AREAS OF RESEARCH

- Health & Biomedical Science & Engineering
- Manufacturing & Materials
- Water Resources and Hydrology
- Geotechnical Engineering
- Energy and Safety Related Technologies
- Ecology and Sustainability
- Agricultural Engineering and Food Science
- Data Science and Artificial Intelligence
- Robotics and Intelligent Systems
- Cyber Physical Systems
- Cyber Security
- Green Energy

The interdisciplinary research centres with a major focus on research

- Environmental Sciences & Sustainable Engineering Centre (ESSENCE)
- Centre for Computational Imaging (CCI)
- The Physical and Chemical Biology Laboratory (PCBL)
- Lab for Advanced VLSI and Artificial Intelligence (LAVA)
- Centre of renewable Energy (CoRE)



RESEARCH AND INCUBATION INITIATIVES AT IIT PALAKKAD

IIT PALAKKAD TECHNOLOGY INNOVATION HUB FOUNDATION (IPTIF)

IIT Palakkad has established IPTIF to facilitate the Technology Innovation Hub on Intelligent Collaborative Systems (TIH-ICS) setup at IIT Palakkad by the DST, Government of India. IPTIF is streamed into 3 verticals, Entrepreneurship, Skill development, Research and technology development.

TECHNOLOGY INNOVATION FOUNDATION OF IIT PALAKKAD (TECHIN)

<https://techin-iitpkd.org>

TECHIN, a not-for-profit section 8 company, was set up by IIT Palakkad to be a collaborative technology business incubator involving other institutions, industries and young entrepreneurs. The incubatees and startups are given support to translate their ideas into viable products for the market and beyond.

CSQUARE INNOVATION LABORATORY OF IIT PALAKKAD

<https://csquare.iitpkd.ac.in>

CSquare is a well-equipped facility for the fabrication of any prototype, proof of concept idea, project work. The students can tinker and try their ideas. The facility has state-of-the-art machines ranging from CNC machines, laser cutters, 3D printers to hand tools and drones for the fabrication of projects or products in any interdisciplinary field. The software to support designs like fusion 360 and CAD are at your fingertips.

SOCIAL INITIATIVES

<https://iitpkd.ac.in/social-initiatives>

Unnat Bharat Abhiyan (UBA)- A Flagship program of Ministry of Education, Government of India to bring in transformational changes in rural development processes.

<https://uba.iitpkd.ac.in>

National Service Scheme (NSS)- A Central Sector Scheme of the Government of India for the students to take part in community service activities.

Pale Blue Dot- A Public Lecture Series that IIT Palakkad organises jointly with the Palakkad District Library and Unnat Bharat Abhiyan.

<https://iitpkd.ac.in/palebluedot>

Science Quest- An annual residential science camp in memory of Late Prof. M. C. Valsakumar.

<https://iitpkd.ac.in/science-quest-2019>

Palakkad Math Circle- An outreach program aimed at enhancing the mathematical education at school level in schools around Palakkad.

Vigyan Jyoti- A DST initiative for empowering girl students.

INDUSTRY COLLABORATION & SPONSORED RESEARCH (ICSR)

A total of 182 Sponsored Projects and 84 Consultancy Projects have been handled by the faculty members with a total budget amounting to Rs. 71.39 Crores till July, 2023.

www.iitpkd.ac.in



EXCLUSIVE PROGRAMS @ IIT PALAKKAD

IIT Palakkad has introduced course based programs like:

- **M.Tech in Manufacturing and Materials Engineering (MME)** which has equal emphasis on materials and manufacturing engineering. It also offers unique central facility for cutting edge research on materials and manufacturing with state of the art lab facilities for hands on modeling skill.
- **M.Tech in Geotechnical Engineering** which focuses on providing candidates a deeper understanding of evaluating soil, rock, groundwater and man-made materials. This program teaches to design structures from designing to constructing.
- **M.Tech in System-on-Chip-design (SoCD)** is an interdisciplinary program with curriculum designed at the intersection of semiconductor devices, circuits and system, so that the student will be able to appreciate and apply advances made across domains to design better SoCDs.
- **M.Tech in Data Science** is a masters degree program is offered by the Department of Data Science at IIT Palakkad. A major highlight is that it is interdisciplinary in nature with four engineering streams (CSE, EE, CE, ME) and three science streams (Physics, Math, Humanities & Social Science) participating in the program.
- **Power Electronics and Power Systems (PEPS)** : Power electronics is a key enabling technology and understanding of the diverse disciplines like Semiconductor devices, Power converters, control theory Power conversion techniques and its application in power system etc. is therefore essential to all power engineers.
- **Computing and Mathematics (MCaM):** M.Tech program in Computing and Mathematics provides a unique mix of computer science and mathematics courses, thus addressing the increasing demand for individuals with expertise in both these areas. Major areas include Algorithms, Graph Theory, Combinatorics, Logic, Computational Methods and Foundations of Data Science & Machine learning.

Program	Duration	Fees (US \$) p.a.
M.Sc.	2 years (4 Semester)	3,450 approx.
M.Tech	2 years (4 Semester)	3,650 approx.
M.S	2-2.5 years	1,290 approx.
Ph.D	4-5 years	1,300 approx.

ACADEMIC YEAR

Split into two semesters, viz. Aug-Dec and Jan-May.

HOW TO APPLY

1. **Study in India portal** studyinindia.gov.in
2. **ICCR Scholarship- Government of India**
<https://www.iccr.gov.in/a2a/iccr-scholarship>
<http://a2ascholarships.iccr.gov.in/>
3. **Indian Govt. Fellowship for ASEAN students**
<https://asean-iit.in/>
4. **Direct Entry** <https://ir.iitpkd.ac.in/node/7>

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