Indian Institute of Information Technology Kottayam

Department of Electronics and Communication Engineering

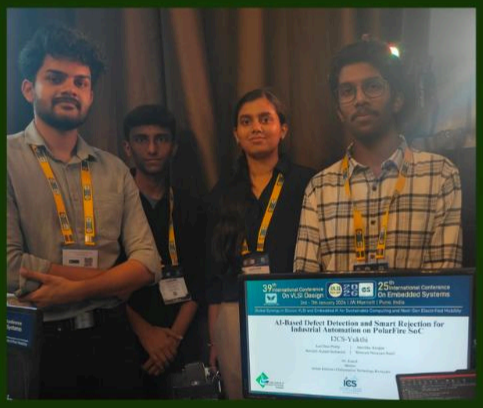
Ph.D. August Admissions 2026

WHY IIIT KOTTAYAM - ECE?

- Institution of National Importance under the MoE, Govt. of India.
- Strong focus on interdisciplinary research blending electronics, communication, computing, and intelligent systems.
- Advanced research infrastructure including access to modern tools, test & measurement systems, and high-performance computing clusters.
- Active collaborations with international universities and national research organizations.
- Fellowships and assistantships as per institute norms.
- Support from Chip to Startup and MeitY.
- Support for conference publication.

Application Portal Opens: 15 March
Extended Application Deadline: 15 April
Written Test & Interview: 01-09 May
Apply Online: phd.iiitkottayam.ac.in
Application Fee: ₹1000 (Gen/OBC) ₹500 (SC/ST/PwD/Female)

PHD ADMISSION CATEGORIES:
Scholarship Holders (Full-Time) – funded by national agencies
Sponsored (Full-Time) – supported by industry/R&D organisations
Self Financing (Full-Time) – may receive TA support
External Registrants – employed candidates pursuing Ph.D. in collaboration with their parent organization



RESEARCH AREAS IN ECE

1) VLSI and FPGA based system design
2) Hardware accelerators for AI/ ML
3) Formal Verification in VLSI Design
4) Analog IC design
5) Nanoelectronics
6) Embedded and IoT systems
7) Multidimensional Data Imputation in Industrial IoT
8) Cooperative perception in vehicular networks
9) Lifetime Maximization in WSNs
10) Cross-layer Protocol Development for WSNs
11) Optoelectronic system design for Underwater applications
12) Quantum Photonics Sensors
13) Energy Harvesting and Smart Sensor Technologies
14) AI driven Acoustic Sensing and Instrumentation
15) Speech/ Audio Processing using ML/DL
16) Image Processing and Computer Vision
17) Quantum Neural network
18) AI, DL and Agentic AI
19) AL/ ML/ DL for Signal Processing and Communications
20) Wireless Communication Technologies for Beyond 5G and 6G Systems
21) Free space optical communication
22) Visible light communication
23) RF, Microwave Circuit Design
24) Antenna Design

I2CS Intelligent Integrated Circuits and Systems Research Group
ELIX
ASPIRE
NGC Next Generation Communications Research Group
MORAL Microwave and Optical Advanced Research Lab

phdprogramme@iiitkottayam.ac.in
+91- 482-2202161/2212/2272/2140/2149/2162/2100

Indian Institute of Information Technology Kottayam
Valavoor P.O.,
Pala, Kottayam – 686 635
Kerala, India