



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KOTTAYAM**  
(An Institution under the Ministry of Education, Govt. of India governed by an Act of parliament)  
**Valavoor (PO), Pala, Kottayam, Kerala - 686635**

**Admission to Ph.D. Programme – August 2025**

**IMPORTANT DATES**

ONLINE APPLICATION PORTAL OPENS	<b>09<sup>th</sup> April 2025</b>
LAST DATE FOR RECEIVING APPLICATIONS	<b>09<sup>th</sup> May 2025</b>
WRITTEN TEST AND INTERVIEW	<b>16-31 May 2025</b>

IIT Kottayam invites applications from motivated and research-oriented students for the Ph.D. programmes starting in August 2025.

The major areas of research are as follows:

<b>Computer Science and Engineering</b>	<p>Artificial Intelligence (AI): Social Good, Healthcare and Agriculture etc., Machine Learning, Deep Learning, Responsible AI, Explainable AI, , Natural Language Processing and LLM, Computer Vision and Image Processing, Big data, Computing Paradigms (Cloud, Distributed, Edge), IoT, Data analytics, Geospatial analytics, Network science, Graph Learning, Climate Networks, Brain Networks, Algorithms and Graph Theory, Graph algorithms, SDN &amp; IoT, ML for systems, Data Analytics and Optimization, Speech and video processing, Medical and BioInformatics, Software Engineering, Data Mining, Federated Learning, Data Science, UAVs, Precision Agriculture, Drones and Imaging, Video Analytics for Surveillance and Security, Bioinformatics and Ayurveda, GAN.</p> <p>Cyber Security, Information Security, Security and Privacy, IoT Security, Cloud Data Security Biometric Security, Cryptography, Lightweight Cryptography, Applied Cryptography, Hardware Security, FPGA Design on</p>
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	Cybersecurity, Secure Distributed Computing, Blockchain Technology, Blockchain Security, Digital Forensics, Memory Forensics, Mobile Application Forensics and Security, Malware Analysis and Threat Intelligence, AI / ML in Cyber Security, AI for Digital Forensics, Vulnerability Assessment.
<b>Electronics and Communication Engineering</b>	Machine learning, Image Processing, Robotics, Fuzzy Systems, RF and Microwave, Antenna Design, MIMO, Small Satellites, NEMS, IoT, Smart Electronics, Ocean Optics, Lasers, Spectroscopy, Embedded Systems, Optoelectronics, Quantum Sensors, Wireless Sensor Networks, VLSI Design, Wireless Communications, Signal Processing for Communication, Instrumentation, Signal Processing, Optical Wireless Communication, Free space optics, Photonics.
<b>Computational Mathematics</b>	Graph Based Learning, Differential Equations, Scientific Machine Learning, Graph Theory, Social Network Analysis, Optimization Techniques, Machine Learning and Optimization, Fuzzy mathematics, Fluid Mechanics, Bio Fluid Mechanics, Operation Research, Mathematical and Computational Finance, Computational Mathematics, Partial Differential Equations.

### **Categories of Ph.D. Students**

#### **i) SCHOLARSHIP HOLDERS (FULL-TIME)**

A student in this category works full-time for his/her Ph.D. degree. He/she receives assistantship/fellowship from INSPIRE/ CSIR/UGC/NBHM or any other recognized funding agency.

#### **ii) SPONSORED (FULL-TIME)**

A candidate in this category is sponsored by a recognized R&D organization, academic institution, government organization, or industry or QIP candidates for doing research in the Institute on a full-time basis. The candidate must be a regular employee of the sponsoring organization with at least **one year** of professional experience in the respective field. The Institute does not provide any financial assistantship/fellowship to such a student. A sponsorship letter must be attached with the application.

### iii) SELF-FINANCED (FULL-TIME)

A candidate in this category works full-time towards the Ph.D. Programme. The Institute will not provide any financial assistantship/fellowship to such a student except teaching assistantship to a limited number, on a case-to-case/need basis.

### iv) EXTERNAL REGISTRANTS

A candidate of this category working in Industries/Institutes/Research Organisations can register as an External registrant and can pursue a Ph.D. Programme at IIT Kottayam while continuing the duties of his/her service at the parent organization. The Institute does not provide any financial assistantship/fellowship to such a candidate. No Objection Certificate in the prescribed format must be attached with the application. **An external registrant scholar is required to spend a one-semester residential program preferably in the first year, during the course work.** Other academic regulations are the same as those applicable to regular students.

### Eligibility Criteria for Admission into Ph.D. Programme

For admission to the Ph.D. Programme, a candidate must satisfy the following criteria:

Computer Science and Engineering:	(i) Master's degree in Computer Science and Engineering/Information Technology/Mathematics/Statistics/ComputerScience/ComputerApplications/Electronics and Communication Engineering / Electrical and Electronics Engineering or equivalent area with a minimum Cumulative Grade Point Average (CGPA) of either 6.5 in a 10-point scale or 60% of marks.  <b>OR</b>  (ii) Four-year Bachelor's degree in Computer Science and Engineering/Information Technology/Electronics and Communication Engineering/Electronics and Electrical Engineering/Mathematics or equivalent in a relevant area from an institute of national importance with a minimum CGPA of either 8.0 in a 10-point scale or 75% of marks. Such students will be awarded both MS and Ph.D. degrees on completion of Ph.D. programme without any exit option during the programme.
Electronics and Communication Engineering:	(i) Master's degree in ECE/EEE or equivalent area with a minimum CGPA of either 6.5 on a 10-point scale or 60% of marks in appropriate branches.  <b>OR</b>  (ii) Four-year Bachelor's degree in ECE/Electrical Engineering from any IITs, NITs, and IIITs /Other Institutions of National Importance with a minimum CGPA of either 8.0 in a 10 point scale or 75% of marks. Such students will be awarded both MS and Ph.D. degrees on completion of Ph.D. Programme without any exit option during the programme.
Computational Mathematics:	2 years M.Sc./Integrated M.Sc. in Mathematics/Mathematics and Computing/ Applied Mathematics/Statistics or an equivalent degree with a minimum of 60% aggregate in the qualifying examination.

**APPLICATION FEE**

An application fee of Rs.**1000/-** for general/OBC and Rs.**500/-** for SC/ST/PWD/Female candidates will have to be paid through State Bank Collect.

**SELECTION CRITERIA**

Selection of the candidate will be based on the performance in the written test and /or interview. Appearing for the test and/or interview does not entitle any candidate to admission to the Ph.D. programme.

Registrar