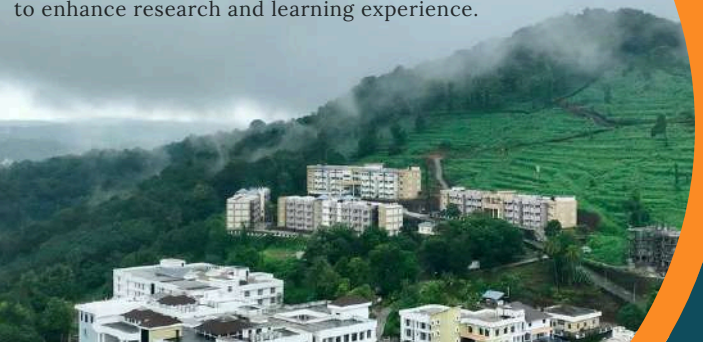
ABOUT US

Indian Institute of Information Technology (IIIT) Kottayam was established in 2015 with the major objective of setting up an education model that can produce best-in-class human resources in IT and harness the multidimensional facets of IT in various domains. It is one of the IIITs that have been established as "Institution of National Importance" by the Ministry of Education, Govt. of India, under the IIIT (PPP) Act 2017. IIIT Kottayam is expected to contribute significantly to global competitiveness through the key sectors of the Indian economy and Industry, focusing on applied research and education in IT and allied areas. IIIT Kottayam conducts academic programmes of B.Tech. in CSE, CSE with specialization in Cyber Security, CSE with specialization in AI & Data Science, ECE, e-M.Tech in AI,ML and Data Science, Cyber Security and Digital Forensics, Big Data and ML, Integrated M.Tech. in AI & Data Science, and Ph.D. in various disciplines such as CSE, ECE, Mathematics, Digital Humanities, Management and allied areas.

INFRASTRUCTURE OF IIIT KOTTAYAM

The institute is connected to National Knowledge Network (NKN) with a bandwidth of 1Gbps and 5Gbps from BSNL. The laboratories are equipped with various hardware and software required to carry out the research. Researchers have 24x7 access to the high performance computing facilities along with the campus-wide licensed Matlab Software package. IIIT Kottayam has become a research-driven organization where ten research groups are outfitted with cutting-edge tools and technology. Besides this, IIIT Kottayam has signed a number of MoU with leading research organizations from India and abroad. In order to become one of the top academic institutions in the world, we plan to pursue research excellence, foster innovation, provide top-notch education to train the next generation of scientists and technologists, and use scientific and technological advancements for the development of India's economy and social welfare. Numerous organizations recognize many IIIT Kottayam students and researchers each year for their outstanding contributions to research. Institute is also subscribed to various E-resources including IEEE Xplore, Digital Library along with IEEE IEL, to enhance research and learning experience.



Indian Institute of Information Technology Kottayam

Ph.D. Admissions AUGUST 2026

Application Portal Opens 15 March

Application Deadline 15 April

Written Test & Interview 01- 09 May

Eligibility Criteria
Click Here

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www.iiitkottayam.ac.in

phdprogramme@iiitkottayam.ac.in

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ABOUT THE PROGRAMMES

IIIT Kottayam launched its doctoral programme to impart the knowledge, skills, and attitude to do world-class research in the area of computer science and its allied fields. Most of the Ph.D. Scholars have been awarded scholarships under various schemes from different funding agencies, like DST. Institute may provide teaching assistantships to eligible students as per prevailing norms. Our scholars are now collaborating with international universities to enhance their research works. The faculties of the Engineering departments and Computational Science and Humanities department along with their research scholars, perform cutting-edge research and have resulted in highly acclaimed publications in reputed Journals and Conferences, as well as Patents in their respective domains. Our faculties also take industrial consultancy projects, apart from sponsored research projects and collaborative projects with Industry/Academia within India and abroad.

Teaching Assistantship

Eligible full-time scholars may receive Minimum of Rs. 25,000/- per month subject to the fulfillment of criteria and conditions set by the Institute from time to time

HIGHLIGHTS

- Research Facilities: Explore innovative ideas with our well-equipped labs and advanced computational infrastructure. https://www.iiitkottayam.ac.in/#!/researchGroups.
- Stand alone Research Groups: To promote interdisciplinary research in various domains.
- Support for Your Growth: Benefit from fellowships, merit-based scholarships, and professional development allowances to attend top conferences and workshops.
- Incentives for Excellence: Get rewarded for publishing in high-impact journals and engage in pioneering research with global collaborations.
- Bright Career Pathways: Take advantage of exceptional placement opportunities and enjoy the flexibility to pursue external research projects.

RESEARCH AREAS

Computer Science and Engineering (CSE):

Artificial Intelligence, Machine Learning, Deep Learning, Explainable Artificial Intelligence (XAI), Agentic AI, Vision Language Models, Edge AI, Optimization in Artificial Intelligence, v, Explainable Artificial Intelligence (XAI), Agentic AI, Vision Language Models, Edge AI, AI for Social Good, Optimization in Machine Learning and Deep Learning, Evolutionary Algorithms, Machine Intelligence, Data Analytics, Data Science, Graph Machine Learning, Graph Representation Learning; Natural Language Processing & Speech Technologies: Natural Language Processing (NLP), Speech Processing, Language Models (LLM), NLP for Healthcare, NLP applications in Ayurveda; Computer Vision & Image/Video Processing, Medical Image Processing, Remote Sensing Image Classification and Segmentation, Geospatial Analysis, Explainable AI for Vision Systems; Biomedical Systems & Healthcare AI: Biomedical Systems, AI in Healthcare, Health Informatics, Medical Imaging, Brain Network Analysis, Bioinformatics, AI for Disease Detection, Quantum Computing, Quantum Artificial Intelligence, Quantum Machine Learning, Cloud Edge Continuum, Network Analytics, AI for Social Good, Responsible Computing, Remote Sensing Image Classification/Segmentation, Geospatial Analysis, Distributed Computing, Cloud Computing, Fog computing, Energy forecasting and Scheduling in EV Charging, Resource Optimization in EV, Software defined networks and security, UAVs in Agriculture, Surveillance and Smart Cities, Security and privacy, Edge computing and intelligence, IoT, Biometric Security Quantum Technologies Post-Quantum Cryptography, Quantum Sensors, Graph Neural Networks, Federated Learning, Climate Networks, Human Computer Interaction, E-learning, Theoretical Computer Science, Algorithms and Graph Theory, Cloud Edge Continuum, Network Science, Network Representation Learning, Robustness of complex networks, Vision, Remote Sensing Image Classification/Segmentation, , Explainable AI (XAI), Energy forecasting and Scheduling in EV Charging, Resource Optimisation in EV, Advanced Databases, Mobile adhoc networks(MANETs), Vehicular adhoc networks VANETS

Computer Science and Engineering (CSE): Cyber Security

Cyber Security, Digital Forensics, Information Security, Network Security, Data Security, Applied Cryptography, Post-Quantum Cryptography, Hardware Security, Adversarial Machine Learning, Multimedia Forensics, Digital Forensics and Crime Investigation, Mobile Application Forensics, Malware Analysis, OSINT (Open Source Intelligence), Financial Crime Analytics, Offensive Security Frameworks; Privacy, Trust & Responsible Computing: Privacy Preserving Machine Learning, Federated Learning, Blockchain Applications, Quantum Computing, Quantum Artificial Intelligence, Quantum Machine Learning, Post-Quantum Cryptography, Quantum Sensors, ,ML for systems and IOT, Forensics&Malware, AI and AI agents for offensive security, Mobile adhoc networks(MANETs), Vehicular adhoc networks VANETS, Graph -Based Forensics, Financial Crime, Open-Source Intelligence, Internet of Things privacy and security, Biometric security, Biometric security, Machine learning in cyber security, FPGA design, Hardware security, Cryptography, Privacy preserving, Healthcare, , AI/ML/DP based cyber security, Nework security and Distributed/Cloud/edge computing security

Electronics and Communication Engineering (ECE):

Internet of Things (IoT), Wireless Sensor Networks, Embedded Systems, Edge Computing / Edge Intelligence, FPGA Design, VLSI Design, Electronic Instrumentation, Smart Nanotechnology; Wireless Communications & Networking: Wireless Communication, Signal Processing for Communications, Beyond 5G and 6G Wireless Technologies, RF / Microwave / Antenna Design, MIMO Systems, Optical Wireless Communication, Free Space Optics, Visible Light Communication; Network Technologies: Mobile Adhoc Networks (MANETs), Vehicular Adhoc Networks (VANETs), Vehicular Communications, Software Defined Networks, Network Analytics, Cloud–Edge Continuum; Physics, Photonics & Optics: Optoelectronics, Lasers, Spectroscopy, Ocean Optics, Quantum Sensors; Fluid Mechanics & Physical Systems: Fluid Mechanics; Biofluid Mechanics, Machine Learning in Fluid Mechanics, Energy Systems & Smart Infrastructure: Energy Forecasting, EV Charging Scheduling, Resource Optimization in Electric Vehicles; Fluid Mechanics & Physical Systems: Fluid Mechanics, Biofluid Mechanics, Machine Learning in Fluid Mechanics; Energy Systems & Smart Infrastructure: Energy Forecasting, EV Charging Scheduling, Resource Optimization in Electric Vehicles; UAV & Smart City Applications: UAVs in Agriculture, UAVs for Surveillance, Smart City Technologies, Computer Vision for UAV Systems, Waveform Design, Biomedical systems, Vibration Energy Harvesting, Acoustic Source Localization using AI/ML, Signal Processing, VLSI, Speech Processing, Image Processing, Machine Learning, Deep Learning.

Computational Mathematics :

Mathematical Modelling, Computational Mathematics, Optimization, Fractional Calculus, Dynamical Systems, Nonlinear Partial Differential Equations, Graph Theory, Network Science/Analysis, Graph Algorithms, Uncertainty Quantification Mathematical and Computational Finance, Partial Differential Equations, and Mathematical Modelling in Sports Analytics, Fuzzy mathematics, Graph Embedding, Optimization in Machine Learning and Deep Learning, Evolutionary Algorithms, Physics-Informed and Graph Neural Networks, Spatio-Temporal Climate Modelling, Uncertainty Quantification, Data Science, Quantum Computing, Post Quantum Cryptography

Research Groups

Research Activities

International Collaborative Activities

How to Apply

- **Candidates can apply only through the online application portal, https://phd.iiitkottayam.ac.in/**
- **There is no provision for offline submission of application forms.**
- **If you are applying for more than one discipline, please submit a separate application for each discipline.**
- **Incomplete applications will be rejected.**

Application Fee

General/OBC candidates: Rs. 1000/-

SC/ST/PWD/Female candidates: Rs. 500/-

To be paid through State Bank Collect.