

About IIIT Kottayam

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, M.Tech. in AI and Data Science, Cyber Security, 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.



Eligibility Criteria

[Click Here](#)



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IIIT KOTTAYAM

17

OCTOBER

Application
Portal Opens

14

NOVEMBER

Application
Deadline

16-20

NOVEMBER

Written Test
& Interview



Indian Institute of
Information Technology
Kottayam

Ph.D.

ADMISSIONS JANUARY 2026





About the Programmes

IIT 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, CSIR, SERB, MeitY, ICMR. 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 Mathematics, Digital Humanities and Management department along with their research scholars, perform cutting-edge research in their respective domains 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.

Highlights

- Research Facilities: Explore innovative ideas with our well-equipped labs and advanced computational infrastructure. <https://www.iitkottayam.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.

Admission Category

- SCHOLARSHIP HOLDERS
- SPONSORED
- SELF-FINANCING
- EXTERNAL REGISTRANTS



Research Areas

Computer Science and Engineering (CSE):

Artificial Intelligence (AI): Deep learning, Bioinformatics, Ayurinformatics, Natural Language Processing, Data science, Machine learning, AI for Social Good, Optimization, Distributed Computing, Artificial Intelligence, Edge/Fog Computing, AI and NLP applications, AI DS - in Medical Informatics, Data analytics, Image Processing, Responsible and Explainable AI, Interpretable AI, Graph Theory and Algorithms, Intelligent Transportation systems, Quantum Computing, Quantum Optimization, Quantum Machine Learning, Quantum AI, Graph Learning, Computer Vision - Precision agriculture, UAVs in agriculture, Autonomous Vehicles, ML on security, Privacy preserving ML, Federated Learning, EV charging and scheduling, Medical image processing, Big Data, Cloud Computing, Structural Complexity in Networks, Brain Connectivity Models, Climate Dynamics, Graph-Based Machine Learning, Semantic Knowledge Networks, Semantic Graph-Driven Language Understanding, Socio-Relational Graphs, Graph-Based Text Representations Recommender Systems, AI Driven Portfolio Management, Privacy IoT Security, Computer Networks with AI, Software Engineering, Intelligent Video Analytics for surveillance, Geospatial data and applications, Computer vision and deep learning, Intelligent Transportation and Connected Vehicles, Multimodal Fusion, Memory Optimization, IoT and Its Applications

Cyber: Information Security, Cyber Security, Network Security, Lightweight cryptography, Adversarial attacks, Federated learning, Cyber Security, Malware, AI&ML for Systems and security, Edge Intelligence and Computing, Network and Blockchain Security, Offensive Security, Exploit Development, OSINT, AI in Offensive Security, Ethical Hacking, Web Application Security, Cyber Security, Hardware security, ML on security, Privacy preserving Security Aspects of EV Infrastructure, Applied Cryptography, Post-quantum Cryptosystem, Digital Forensics, AI for Digital Forensics and Crime Investigation, Mobile Application Forensics and Security Multimedia security, Multimedia forensics Privacy IoT Security, Biometric Security, Network security, Blockchain technology.

Electronics and Communication Engineering (ECE):

AI, Deep Learning, Robotics, Machine Learning, Fuzzy Neural Network, Signal and Image Processing, Wireless Communication, Signal Processing for Wireless Communication, Artificial Intelligence, Machine Learning and Deep Learning for Wireless Communication, Wireless Communication Technologies for Beyond 5G Systems, Waveform Design, RF and Microwave, Antenna Design, Optical Wireless Communication, Free Space Optics, Photonics, Ocean Optics, Lasers, Spectroscopy, Embedded Systems, Optoelectronics, Quantum Sensing, VLSI and Embedded Systems, FPGA Design for Artificial Intelligence, Electronic Instrumentation, Acoustic Source localization using AI/ML, Piezoelectric Vibration Energy Harvesting, Nanoelectronics and IoT, Speech Processing, Wireless Networks, Wireless Sensor Networks, Vehicular Communication, Signal detection and estimation

Computational Mathematics :

Fuzzy mathematics, Computational Mathematics, Mathematical and Computational Finance, Optimization in Machine Learning and Deep Learning, Evolutionary Optimization, Computational Intelligence, Quantum Computing, Geometric function theory, Fluid Mechanics, Bio Fluid Mechanics, Operation Research, Differential Equations, Scientific Machine Learning, Graph theory and Network Science, Graph Algorithms, Interconnection Networks, Brain Network and Network Analysis, Climate Modeling, Machine Learning for Complex Systems, Physics-Informed Neural Networks, Graph Neural Networks, Dynamical Systems & Mathematical Modeling, Nonlinear Fractional Differential Equations

Digital Humanities:

Digital Humanities, Cultural Analytics, Human Centered Artificial Intelligence, Digital Storytelling & Interactive Narratives, Digital Literary Studies, Cultural Analytics, Computational Social Science, Platform studies, Critical AI studies, Techno- Cultural Studies, Human- Computer Interaction

Management:

Organisational Behaviour, Human Resources Management, Marketing Management, Business Analytics, Operations and Supply Chain management, Strategic Management, Startups and Entrepreneurship.

Research Groups

Research Activities

International Collaborative Activities



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

How to Apply

- Candidates can apply only through the online application portal, <https://phd.iitkottayam.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.**

