

About IIIT Kottayam

Indian Institute of Information Technology (IIIT) Kottayam was established in 2015 with the major objective to set 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 an "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 programs 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, Big Data and ML, FinTech and Ph.D. in various disciplines such as CSE, ECE, Mathematics, and allied areas.

Infrastructure of IIIT Kottayam

The institute is connected to National Knowledge Network (NKN) with a bandwidth of 1Gbps. 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. An MoU has been signed with CDAC for installing the state-of-art supercomputer (ParamYuva-II Supercomputer) under National Param Supercomputing Facility (NPSF). Institute is also subscribed to various E-resources including IEEE Xplore Digital Library along with IEEE CSDL, to enhance research and learning experience.



Ph.D. Admission

January 2023

Contact Us



+91-0482-220 2162, 2137, 2100



phdprogramme@iiitkottayam.ac.in



**Indian Institute of Information
Technology Kottayam,
Valavoor P.O.,
Pala, Kottayam-686635,
Kerala**



www.iiitkottayam.ac.in



For more details



About the Program

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. The faculties of the Engineering departments and Computational Science and Humanities 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 along with collaborative projects with Industry/Academia within India and abroad.

IIT Kottayam has signed MoU with various Industry/Academia among them

- *Taiwan-India Joint Research Center on Artificial Intelligence* (“CCU AI Center”): Joint research projects on AI and related technologies, online classes, Student exchanges, FDPs, etc.
- *German Academy of Digital Education* (DADB): Aims to facilitate AR/VR immersive blended learning programs for training on 5G and advanced wireless communication skills.
- *Microsoft*: In the domains of Agriculture, climate change
- *University of New Brunswick, Canada*: Staff exchange, Student exchange programs, Study abroad programs, and Joint programs at the undergraduate level, postgraduate level, and summer schools.
- *University of Edmonton, Alberta, Canada*
- *Technische Universität München Germany*

Industry Tie-ups with

- IBM
- TCS
- UST Global
- NeST Digital

Collaborations with other agencies

- *National Institute of Mental Health and Neurosciences* (NIMHANS), Bangalore
- *Kerala Police Cyberdome*
- *Manorama Horizon for Online Certification Programs*

Admission Category

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

Eligibility Criteria

For details visit:

 www.iitkottayam.ac.in

How to Apply

- Candidates can apply only through the online application portal.
 https://www.iitkottayam.ac.in#!/phd_home
- 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.

Admission Timeline

Application Portal Open : **10 October, 2022**

Application Deadline: **23 November, 2022**

Class Commencement: **04 January, 2023**

Admission Fee Details

General/OBC candidates: **Rs.1000/-**

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

to be paid through **State Bank Collect.**

Research Areas

> Computer Science and Engineering (CSE):

Data Analytics, Data Mining, Data Science, Data Semantics, Data Privacy, Multilayer/Climate/Wireless Networks, Software Defined Networking, Machine Learning, Interpretable Machine Learning, Deep Learning. IoT, Blockchain, Cloud/Fog/Edge/Soft Computing, Security in IoT, Software Defined Networking, Resource Management in Cloud, Fog/Edge, AIOps, Scheduling in Smart grid, Electric Vehicles, Computational Linguistics, Bio-Informatics, Artificial/Natural Language Intelligence, Cyber Security, Machine Learning in Cyber Security, Hardware Security, Hybrid Cryptography, Applied Cryptography, Industry 4.0 and Cyber security, Smart Home/City Security, Software Defined Firewall Security, Network & Information Security, Information Management, Quantum Computing and Technologies, Big Data Analytics, Energy-Efficiency in Large Scale Data Processing Environment, Resource Management in Modern and Future Computing Paradigms, Emerging Databases, Financial Modeling, Graph Algorithms, Community Detection, Cryptography, FPGA design, Computational Science for Social Good, Social Network Analysis, Computer Vision and Image Processing, Natural Language Processing, Parallel & Distributed Algorithms for Graph Data, Graph Representation Learning, Access Control Mechanism, Privacy Preserving Techniques, Swarm Intelligence, Nature Inspired Optimization Algorithms

> Electronics and Communication Engineering (ECE):

VLSI and FPGA based system Design, Computer Vision, and Image Processing, Natural Language Processing and Recommender Systems, Machine Learning, Image Processing

> Computational Mathematics:

Statistical or Stochastic Learning and Optimization, Financial Modeling, Mathematics for Data Science, Swarm Intelligence, Nature Inspired Optimization Algorithms