



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 – January 2023

IMPORTANT DATES

ONLINE APPLICATION PORTAL OPENS	6 th October 2022
LAST DATE FOR RECEIVING APPLICATIONS	30 th November 2022 23rd November 2022
WRITTEN TEST/ INTERVIEW	4 th -7 th December 2022
CLASSES BEGIN	4 th January 2023

Applications are invited for admission to the Doctor of Philosophy (Ph.D.) programme starting in August 2022.

The areas in which these programmes will be offered are:

Computer Science and Engineering	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 Computing, Fog Computing, Edge Computing, 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 Intelligence, Edge Intelligence, 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 Modelling, Computational Linguistics, Graph Algorithms, Community Detection, Cryptography, FPGA Design, Social Network, Computational Science for Social Good, Analysis, Computer Vision and Image Processing, Natural Language Processing, Parallel & Distributed Algorithms for Graph Data, Graph Representation Learning, Access Control Mechanism, Privacy-Preserving Techniques.
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Electronics and Communication Engineering	VLSI And FPGA Based System Design, Pattern Classification, Machine Learning and Image Processing, Wireless Communications
Mathematics	Differential Equations Using DNN Algorithms, Nature-Inspired Optimization Algorithms, Evolutionary Computation, Swarm Intelligence

Categories of Ph.D. Students

i) SCHOLARSHIP HOLDERS (FULL-TIME)

A candidate with INSPIRE/CSIR/UGC can apply for a full-time Ph.D. programme. Such a candidate receives the assistantship or fellowship from concerned funding agencies. The Institute does not provide any financial assistantship/fellowship to such candidates. Sponsorship must be attached to the application.

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 does 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 IIIT 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 I 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:	<p>Master's degree in Computer Science Engineering/Information Technology/ Computer Applications/ECE or equivalent area with a minimum CGPA of either 6.5 on a 10-point scale or 60% of marks in appropriate branches.</p> <p style="text-align: center;">OR</p> <p>(ii) Four-year Bachelor's degree in Computer Science Engineering / Information Technology / Electronics and Communication Engineering from any IITs, NITs, IIITs / Other Institutions of National Importance with a minimum CGPA of either 7.5 on a 10-point scale or 70% of marks. Such students will be awarded both MS and Ph.D. degrees upon completion of Ph.D. Programme without any exit option during the programme.</p>
Electronics and Communication Engineering:	<p>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.</p> <p style="text-align: center;">OR</p> <p>(ii) Four-year Bachelor's degree in Electronics and Communication Engineering / Electrical Engineering from any IITs, NITs, IIITs / Other Institutions of National Importance with a minimum CGPA of either 7.5 on a 10-point scale or 70% of marks. Such students will be awarded both MS and Ph.D. degrees upon completion of Ph.D. Programme without any exit option during the programme.</p>
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