



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

## Admission to Ph.D Programme-August 2022

### IMPORTANT DATES

<b>ONLINE APPLICATION PORTAL OPENS</b>	<b>15th April 2022</b>
<b>LAST DATE FOR RECEIVING APPLICATIONS</b>	<b>15<sup>th</sup> June 2022</b>
<b>WRITTEN TEST/ INTERVIEW</b>	<b>1<sup>st</sup>,2<sup>nd</sup>,3<sup>rd</sup>,4<sup>th</sup>,july 2022</b>
<b>CLASSES BEGIN</b>	<b>1<sup>st</sup> August. 2022</b>

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

The areas in which these programmes will be offered are:

<b>Computer Science and Engineering</b>	Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Data Analytics, Data Mining, Computer Vision, Image Processing, Software Defined Networks, Intelligent Distributed Systems, Computational Intelligence, Soft Computing, Graph Neural Networks, Computational Biology, Quantum Computing, Artificial Intelligence and Machine Learning in Fintech, Social Network Analysis, Social Computing, Network Science, Network Representation Learning, Graph Theory, Communication Networks, IoT, Cloud computing, Data Security and Privacy, Blockchain Technology, Post Quantum Cryptography, Iot Security, Quantum Security, Smart Home Security, Cyber Security, Network Security, Privacy and Anonymity Aspects of Communication, Security Based Social Engineering, Applied Cryptography, Data-Centric Security, RFID and Iot Security, Context-Aware Cryptography, Biologically Inspired Cyber Security
<b>Electronics and Communication Engineering</b>	VLSI And FPGA Based System Design, Pattern Classification, Machine Learning and Image Processing, Wireless Communications

<b>Mathematics</b>	Differential Equations Using DNN Algorithms, Nature-Inspired Optimization Algorithms, Evolutionary Computation, Swarm Intelligence
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## Categories of PhD Students

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

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

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

A candidate in this category works full-time towards the PhD 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 External registrant and who can pursue the PhD Programme at IIIT Kottayam while continuing the duties of his/her service at the parent organisation. 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 one semester residential program preferably in the 1st year during the course work. Other academic regulations are the same as applicable to regular students.

## Eligibility Criteria for Admission into PhD Programme

For admission to the PhD Programme, a candidate must satisfy the following criteria:

Computer Science and Engineering:	Master's degree in Computer Engineering/Information Technology/ Computer Applications/ ECE or equivalent area with minimum CGPA of either 6.5 in a 10-point scale or 60% of marks in appropriate branches. OR
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	(ii) Four-year Bachelor's degree in Computer Engineering / Information Technology/ Electronics and Communication Engineering from any IIT's, NIT's, IIIT's / Other Institutions of National Importance with a minimum CGPA of either 7.5 in a 10-point scale or 70% of marks. Such students will be awarded both MS and PhD degree on completion of PhD Programme without any exit option during the programme.
Electronics and Communication Engineering:	Master's degree in ECE/ EEE or equivalent area with minimum CGPA of either 6.5 in a 10-point scale or 60% of marks in appropriate branches.  OR  (ii) Four-year Bachelor's degree in Electronics and Communication Engineering/Electrical Engineering from any IIT's, NIT's, IIIT's / Other Institutions of National Importance with a minimum CGPA of either 7.5 in a 10-point scale or 70% of marks. Such students will be awarded both MS and PhD degree on completion of PhD 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 test and /or interview does not entitle any candidate for admission to the Ph.D. programme.

Registrar