



**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 – August 2023**

**IMPORTANT DATES**

|                                      |   |
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| ONLINE APPLICATION PORTAL OPENS      | 11 <sup>th</sup> April 2023                 |
| LAST DATE FOR RECEIVING APPLICATIONS | 31 <sup>st</sup> May 2023                   |
| WRITTEN TEST/ INTERVIEW              | 10 <sup>th</sup> -14 <sup>th</sup> June2023 |
| CLASSES BEGIN                        | 2 <sup>nd</sup> August 2023                 |

IIIT Kottayam invites applications from motivated and research-oriented students for the Ph.D. programmes starting in August 2023.

The major areas of research are as follows:

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| <b>Computer Science and Engineering</b>          | Internet of Things, Edge/Fog/cloud Computing, Wireless Networks, Bioinformatics, AI, Machine Learning, Deep Learning, NLP, Distributed Systems, Algorithms and Data Structures, Responsible AI, Software Defined Networks, Big data, Graph Theory and Algorithms, Edge Computing and Intelligence, Data Analytics/Science, Cloud Computing and Database Systems, Computational Science for Social Good, HPC, Emotion Intelligence, Cyber Physical Systems, Smart healthcare, Computer vision, Image processing, Modern biometric technologies, Social Network analysis, Signal Processing, Medical/Underwater Image Processing, AI in Agriculture, Evolutionary algorithms: models, development and their applications in AI/ML. Applied Cryptography, Data Security and Privacy, Privacy preserving Techniques, Security in IoT, Hardware security, Data Privacy, Network Security, IoT Security, Supply Chain Optimization, FPGA design, ML on security |
| <b>Electronics and Communication Engineering</b> | Wireless\Mobile Communication, Antenna Design, Signal Processing, Image Processing, Machine Learning/Deep Learning, Optical Sensors, Embedded Systems, Ocean Optics, Laser Spectroscopy, Instrumentation, Nano electronics, Wearable devices  |
| <b>Mathematics</b>                               | Cryptography, Evolutionary algorithms: models, development and their applications in AI/ML.   |

## **Categories of Ph.D. Students**

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

A candidate with an assistantship/fellowship from INSPIRE/CSIR /UGC /NBHM/KSCSTE or any other recognized funding agency to do Ph.D. can apply under this category. Such a candidate receives the assistantship or fellowship from the concerned funding agencies. The Institute does not provide any financial assistantship/fellowship to such candidates.

### **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 first 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: | Master's degree in Computer 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.<br>OR<br>(ii) Four-year Bachelor's degree in Computer Science and Engineering/ Information Technology/Electronics and Communication Engineering from any IITs, NITs, IITs |
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|  | / Other Institutions of National Importance with a minimum CGPA of either 8.0 on a 10-point scale or 75% of marks. Such students will be awarded both MS and Ph.D. degrees on completion of Ph.D. Programme without any exit option during the programme.   |
| Electronics and Communication Engineering: | 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.<br><br>OR<br><br>(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 8.0 on a 10-point scale or 75% of marks. Such students will be awarded both MS and Ph.D. degrees on completion of Ph.D. 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 the test and/or interview does not entitle any candidate to admission to the Ph.D. programme.

Registrar