Indian Institute of Information Technology Kalyani

An Institute of National Importance

(Autonomous Institution under MOE, Govt. of India & Department of Information Technology & Electronics, Govt. of West Bengal)
WEBEL IT Park,14, Adivasi Para, Opposite of Kalyani Water Treatment Plant
Near Buddha Park, Dist. Nadia, P.O. Kalyani - 741235, West Bengal.
Email-office@iiitkalyani.ac.in, website-www.iiitkalyani.ac.in

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Advt. No. IIITK/ACAD/PHD/23-24/35   **Date: 30/05/2023**

<u>Ph.D. Admissions 2023 - 2024 (Autumn Semester)</u>

Applications are invited from eligible Indian Nationals for admission to the Doctor of Philosophy (Ph.D.) programme in the Autumn Semester, 2023 - 2024. This programme will be offered in Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Mathematics and Physics (Space and Atmospheric Sciences). Admissions are offered in the following categories:

i) **Research Fellow:**
   a. **Fellow with confirmed fellowship (NET/INSPIRE, etc.):** A student with confirmed fellowship from any recognized funding agency may apply in this category. The student has to devote **full-time** in research and help in the teaching process of the Institute.
   b. **Institute Teaching Assistantship:** For students without any fellowship, limited number of Teaching Assistantship (TA) @25,000/- per month may be available for a period of a maximum of 05 years. All students in this category are required to provide service of atleast 06 hours per week as teaching assistant in theory and/or laboratory courses.

ii) **Sponsored:** A student may be sponsored by a reputed R&D organization, academic institution, government organization or industry for doing research in the Institute on a **full-time** basis. He/she must be a regular employee of the sponsoring organization with at least two years of professional experience in the respective field.

iii) **External:** A student should be employed in an R&D organization/academic institution of national repute/industry having adequate research facilities. The research work leading to the Ph.D degree may be carried out largely in the parent organization of the candidate under a Local Supervisor from the organization but with the overall guidance provided by a faculty member (Institute Supervisor) of the Department/Centre in which he/she is registered. Such a candidate will have to complete the course work and other requirements of the Institute and will have to take official withdrawal after completion of the requirements to continue work in his/her parent organization.

iv) **Part-time:** A student be a professionally employed person (including the staff of IIIT Kalyani), who pursues the Ph.D programme while continuing the duties of his/her service. He/she must be a regular employee of that organization with at least **two years** of professional experience in the respective field.

v) **Project Staff:** A student should be working on a sponsored project in IIIT Kalyani. The remaining duration of the project at the time of admission should be at least one year.

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List of Reseach Domain:

Discipline	Research Domain			
	Full-time (Institute Scholarship)	Full-time (Other Scholarship)	Part-time	External
Mathematics	Mathematical Modeling, Mathematical Biology	Mathematical Modeling, Elastodynamics, Mathematical Biology	NIL	Mathematical Modeling
ECE	ML for VLSI EDA (Physical Design Automation),	Wireless Communications in the Physical Layer, 2D nanomaterial based biosensor, AI ML in gas sensor, fabrication of energy storage devices	Wireless Communications in the Physical Layer	NIL
CSE	Cryptography (Post-Quantum, Quantum), IoT and Blockchain Security, Information Security, Machine Learning in NLP	Cryptography (Post-Quantum, Quantum), IoT and Blockchain Security, Coding Theory, Information Security, Steganography, Visual Cryptography, Signal Processing, Post-Quantum Cryptology	Cryptography (Post-Quantum, Quantum), IoT and Blockchain Security, Coding Theory, Signal Processing, Post-Quantum Cryptology	Cryptography (Post-Quantum, Quantum), IoT and Blockchain Security, Coding Theory, Signal Processing, Post-Quantum Cryptology
Physics	Machine Learning in Atmospheric Sciences, Atmospheric Physics	Machine Learning in Atmospheric Sciences, Atmospheric Physics	NIL	NIL

ELIGIBILITY CRITERIA: For admission to the Ph.D. Programme in various disciplines a candidate must satisfy the following criteria:

For Engineering Disciplines: One of the following criteria be satisfied:
1. Master's degree in Engineering/Technology in a relevant area with a minimum CGPA of 6.5 (in a 10 grade point scale) or 60% of marks.
2. Bachelor's degree in Engineering/Technology in a relevant area with a minimum CGPA of 7.5 (in a 10 grade point scale) or 70 % of marks. The candidate should be GATE/NET qualified.

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For Science Disciplines:

Master's degree in Science in a relevant area with a minimum CGPA of 6.5 (in a 10 grade point scale) or 60% of marks. The candidate should be GATE/NET qualified.

Mere fulfilment of eligibility criteria does not ensure an applicant's right to admission in the Ph.D programme. The decision of the selection committee will be final in this regard.
Reservations will be applicable as per MoE, Govt. of India norms.

APPLICATION PROCEDURE:
Interested candidates are requested to apply by **filling up and submitting the** Google form available here (https://forms.gle/cifgC6VJ5Lhxczbb8) **along with the PhD application form available on IIIT Kalyani website** (iiitkalyani.ac.in). The candidate should also **send the hard copy of the application form duly signed and completed in all respect** (with self attested copy of all certificates/relevant documents and proof of online transfer of application fees) to the institute address through speed post/courier only. Templates for no-objection certificates are available in **Annexure I** of the application form. Candidates are requested to check the form submission guideline available on institute's website before filling up the form. Candidates are also requested to subscribe the envelope with "**Application for Ph.D. Admission**". The Institute reserves the right not to fill any or all the positions for Ph.D. program.

Application Fees:
Application fees of Rs. 500/- (Rupees five hundred only) [Rs. 300/- (Rupees three hundred only) for SC/ST/EWS] (Non-Refundable) should be paid (before submitting the Google form) through online transfer in the bank account of IIIT Kalyani (details given below). Reference no. of bank transaction should be mentioned in the specified section of the application form.

Bank Detail:
A/c Name: Indian Institute of Information Technology, Kalyani
Bank Name: State Bank of India
A/c No: 33984361509
IFSC Code: SBIN0006701, MICR Code: 700002332

Hard copy should be sent to the following Address:
The Deputy Registrar,
Indian Institute of Information Technology Kalyani,
14, Adivasi Para, Webel IT Park (Near Buddha Park),
Kalyani – 741235. Nadia, West Bengal

SELECTION PROCEDURE:
1. Admission will be made based on the fulfillment of eligibility criteria and performance in the written test and/or interview. The first round of shortlisting will be based on applications received within **21 days from the date of advertisement**.
2. The candidates are requested to visit the Institute's website for the date of the interview.

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Important Dates:

Last date of application: **21 days from the date of advertisement**

Publication of candidate list selected for test/interview: **3rd Week of June 2023 (**tentative, Institute website**)**

Written test and/or interview: 1st week of July (between 03/07/23 – 07/07/23, tentative, will be declared on Institute website)

Documents Needed At Joining Time:

1. Self-attested photocopies of all academic testimonials along with originals for verification.
2. Valid Caste Certificate (if any).
3. Proof of Fellowship (if applicable).
4. Transfer certificate from last institute and migration certificate from the last University/Board attended.
5. No objection certificate from the present employer (for Part-Time Candidates).
6. Release letter from the employer (if applicable) for regular candidates.
7. Fellowship Agreement on ten rupees non-judicial stamp paper, notarized from court (for regular candidates with institute TA-ship).
8. Bank account details (for regular candidates with institute TA-ship).
9. Proof of payment of fees as per the Ph.D. fees structure.
10. Five copies of passport size photograph.
11. Valid identity proof (such as, Aadhar, Driving license, Passport etc.).

Deputy Registrar