

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY GUWAHATI

GUWAHATI – 781015, INDIA

PhD ADMISSION JANUARY 2021

Applications are invited for admission to the Doctor of Philosophy (PhD) programme beginning in January 2021. The disciplines in which these programmes will be offered are: **Computer Science & Engineering (CSE), Electronics & Communication Engineering (ECE), Humanities and Social Sciences (HSS) and Mathematics.** The following are areas of research for which admissions are currently sought:

A. Department of Science and Mathematics					
Sl.no.	Area	Faculty	Category Part-time / Full-time	Assistantship (applicable for Full time) Self-financed / own fellowship	Number
1.	Geometry and topology	Dr. Dipendu Maity	Full-time	Own fellowship	1

B. Department of Computer Science and Engineering					
Sl No	Area	Faculty	Category Part-time / Full-time	Assistantship (applicable for Full time) Self-financed / own fellowship	Number
1.	Security and Privacy Preserved Automatic Health Emergency Detection and MSPSselection in IoT Based Smart Healthcare System	Subhasish Dhal	Full Time	Fellowship from SERB, DST, Govt. of India (for three years)*	1
2.	AI and Machine Learning in Services Computing (Mostly prediction and recommendation)	Soumi Chattopadhyay	Full Time	Fellowship from SERB, DST, Govt. of India (for two years)	1
3.	Reinforcement Learning in Services Computing	Soumi Chattopadhyay	Full Time	Self finance / Own fellowship	1
4	Design of Structure-Preserving Deep	Kaustuv Nag	Full Time	Fellowship from SERB, DST,	1

	Neural Networks for Improved Generalization			Govt. of India (for two years)	
5	Software Engineering, Database Management System and Information Security	Angshuman Jana	Part-time / Full-time	Self finance / Own fellowship	1
6	Software Defined Networks, Network Functions Virtualization	Radhika Sukapuram	Full-time	Self finance / Own fellowship	1
7	IoT, Cloud, and Fog computing	Rakesh Matam	Full-time	Self-finance / Own fellowship	1
* The project has been approved and awaiting sanction.					

C. Department of Electronics and Communication Engineering					
Sl.no.	Area	Faculty	Category Part-time / Full-time	Assistantship (applicable for Full time) Self-financed / own fellowship / Project Sponsored	Number
1.	Signal Processing	Bijit Kumar Das	Full time /Part time	Self-financed / own fellowship	3
2.	Wireless communication	Sanya Anees	Full time/Part time	Self-financed / own fellowship	2
3.	Wireless Sensor Networks	Ripudaman Singh	Full Time/Part Time	Self-financed/Own Fellowship	1
4	Antenna Design	Bidisha Dasgupta	Full Time/Part Time	Own Fellowship/Self Financed	1
5	Online Social Networks	Shilpa	Full time	Own Fellowship/Self Financed	1
6	Signal Processing for Radar-Cellular Coexistence	Sudip Biswas	Full Time	Project Sponsored (JRF)	1

7	VLSI Design	Mourina Ghosh	Full time /part time	Own Fellowship/Self Financed	2
8	VLSI architecture and compiler design	Soumyajit Poddar	Full time/part time	own fellowship/self financed	2
9	Optical imaging, Image processing	Rusha Patra	Full time/part time	Own fellowship/self financed	1
10	Digital VLSI Architectures	Babita Jajodia	Full Time/Part Time	Own Fellowship/ Self financed	1
11	Distributed Network Control: Algorithms and Learning	Surajit Panja	Full Time/Part Time	Self-financed / own fellowship	1

D. Department of Humanities and Social Sciences					
Sl. No.	Area	Faculty	Category	Assistantship	Number
1.	English: Literature; Comparative Literature; Cultural Studies; Urban Studies; Folklore & Oral Histories	Dr. Arjab Roy	Full time/Part time	Self-financed; Own scholarship like UGC-JRF	One (1)

THE SCHEDULE AND THE PROGRAMME

- i. Admissions will be held based on applications received. **The last date of receiving application will be 03-01-2021 (Sunday).**
- ii. **Date of Selection in Online Mode for All Disciplines: 9-1-2021 (Saturday)**
- iii. Shortlisting will be done based on the availability of seats and academic performance of the candidates. A candidate merely fulfilling the eligibility criteria may not be shortlisted.
- iv. There will be no support for travel for the interview.
- v. There is no application fee.
- vi. Course Requirements, if any, will be prescribed by individual Departments. But students will be encouraged to take courses. The Doctoral Committee of a student will evaluate the preparedness of a student and prescribe one or more courses that will have to be taken.

- vii. There will be a written comprehensive examination after admission to determine if the student is ready to take up research work and to determine if the student has sufficient breadth of knowledge in the discipline he / she has been admitted to.

CATEGORIES OF STUDENTS

i) Regular

A student in this category works full-time for his/her PhD degree. He / she may get a fellowship / assistantship, or may be self-financed.

ii) Sponsored (full-time)

A student in this category is sponsored by a recognized 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 **one year** of professional experience in the respective field. The Institute does not provide any assistantship/fellowship to such a student. Sponsorship letter must be attached with the application.

iii) Part-time

A student in this category is a professionally employed person, who pursues the PhD Programme while continuing the duties of his/her service. He / She must be a regular employee of the sponsoring organization with at least **one year** of professional experience in the respective field. A No Objection Certificate from the Head of the Institution/Organisation in which He / She is employed must be enclosed at the time of application.

ELIGIBILITY

For admission to the PhD Programme in various disciplines a candidate must satisfy the following criteria:

CSE and ECE

- i) Master's degree in Engineering/Technology in the relevant area with a minimum Cumulative Performance Index (CPI) of 6.5 or 60% of marks.

OR

- ii) Four-year Bachelor's degree in Engineering/Technology/Medical Sciences or equivalent in a relevant area with a minimum CPI of 7.0 or 65% of marks.

Mathematics

- i. MA/ MSc/ MTech in Mathematics with at least 60% marks or a CPI of 6.5

HSS

- i. Master's degree in English and / Comparative Literature with at least 60% marks or a CPI of 6.0
- ii. Candidates with MPhil degree/ NET-JRF will be given preference.

For candidates with a B.Tech / MA / MSc, preference will be given to those who have cleared GATE / NET/ JRF.

RESERVATIONS (SC, ST, OBC (Non-creamy layer) and PD categories):

Eligibility criteria will be relaxed by 5% marks or 0.5 CPI for SC/ST/PD applicants. Reservation is as per GOI rules. OBC (Non-creamy layer) candidates will have to enclose certificate and self-declaration statement as per format at Annexure-I & Annexure - II. The OBC (NCL) Certificate, issued by competent authority, on or after 01-06-2019, shall only be acceptable.

Fees

Sl. No.	Items	Periodicity	Amounts (₹)
1.	Tuition Fee	Per Semester	5,000
2.	Institute Caution Money	One Time (Refundable)	5,000
Total			10,000

*The candidate needs to pay the hostel and mess fees only when a student joins a hostel. Hostel rent will be charged on a pro-rata basis (semester of 6 months with a charge of 12,500/- for the whole semester) based on when the student joins a hostel.

SUBMISSION

Interested candidates are requested to apply by filling up the Google Forms in the links given below accordingly -

1. CSE – https://docs.google.com/forms/d/e/1FAIpQLScRStGJGN_RuwRcQ3AdDmMY-xyomwEhFo84BmXTSsZpdVYCWg/viewform?usp=sf_link
2. ECE – https://docs.google.com/forms/d/e/1FAIpQLSd-Q87H-mUOKcNK9k6fxX6f0fSG3RW_GwPspbPZfmVuaHoYqg/viewform?usp=sf_link
3. HSS – https://docs.google.com/forms/d/e/1FAIpQLSdCsrnuJTybsaSAP6HOV9EQzToIrNpY9yHkzaR7jz0mD6JMjw/viewform?usp=sf_link
4. Science and Mathematics – https://docs.google.com/forms/d/e/1FAIpQLScUpmllsuaT5r6ZSYBjQx2Gnasm-SLhzy-HmpzuZfN-uJMpfQ/viewform?usp=sf_link

Please upload the APPLICATION FORM along with the self-attested copies of all degrees; mark sheets and GATE / NET score card copy (if any) must be uploaded.