



भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY GUWAHATI
आमबारी, गोपीनाथ बोरदोलाई (जी.एन.बी.) मार्ग, गुवाहाटी-781001, भारत
Ambari, Gopinath Bordoloi (G.N.B.) Road, Guwahati-781001, India

Date : 11.05.2017

PhD Admissions 2017

Applications are invited for admission to the Doctor of Philosophy (PhD) programme beginning in July 2017. The disciplines in which these programmes will be offered are: **Computer Science & Engineering (CSE), Electronics & Communication Engineering (ECE), Economics, English, Political Science, and Mathematics.** The following are areas of research for which admissions are currently sought:

Area	Faculty	Assistantship	Remarks
CSE			
Machine Learning, Image Processing, Soft Computing	Moumita Roy	JRF (25000/- p.m)	Sponsored Project (1)
HPC, Big Data, Parallel Computing	Dip Sankar Banerjee	JRF (25000/- p.m)	Sponsored Project (1)
Cloud Computing	Ferdous Ahmed Barbhuiya	JRF (25000/- p.m)	Sponsored Project (1)
Wireless sensor network, IoT and smart cities	Suchetna Chakraborty	JRF (25000/- p.m)	Sponsored Project (1)
Computer Architecture, DRAM Architecture and Network on Chip	Shirshendu Das	JRF (25000/- p.m)	Sponsored Project (1)
Internet of Things	Rakesh Matam and Suchetna Chakraborty	JRF (25000/- p.m)	Sponsored Project (1)
Networks, Game Theory, Graph Theory, Image Processing	Rohit Tripathi, Subhabrata Paul, Nilkanta Sahu	JRF (25000/- p.m) / self financed / INSPIRE eligible* or other already awarded to candidate	Up to 3 will be selected; one JRF position is available from the Institute.
ECE			
Internet of Things	Soumyajit Poddar and Shovan Barma	JRF (25000/- p.m)	Sponsored Project (1)
Signal Processing	Shovan Barma	JRF (25000/- p.m)	Subject to project approval (2)
Embedded Systems and VLSI	Soumyajit Poddar	JRF (25000/- p.m)	Subject to project approval (2)

Wireless Communication, Information Theory and Coding, Analog VLSI	G. Aruna, Kuntal Deka, Sounak Roy, Mourina Ghosh	JRF (25000/- p.m) / /Part-time / self financed / INSPIRE eligible* or other already awarded to candidate	Up to 4 will be selected; at most 1 part-time will be selected; one JRF position is available from the Institute.
Mathematics			
Number Theory	Gautam Kalita	INSPIRE eligible* or other already awarded to candidate	(1)
Humanities and Social Science (HSS)			
Economics			
Health Economics; Issues Related to Development Economics	Hari Kant Choudhury	self-financed students either full/part-time	At most 2
English			
Colonial and Postcolonial Studies	Rajarshi Mitra	self-financed student; full time preferred	(1)
Linguistics			
Sociolinguistics (Discourse/ Conversation Analysis)	Suranjana Barua	self-financed full time student	(1)
Political Science			
Identity Politics, Socio-Political Movements, Demography, Territory and Indian State, Conflicts and Violence	L. David Lal	self-financed students either full/part-time	At most 2

*candidates who are eligible for INSPIRE fellowships (see website: <http://www.inspire-dst.gov.in/fellowship.html>) may apply, and if admitted, can apply for INSPIRE fellowship. Or, a candidate already with a provisional INSPIRE offer may apply.

THE SCHEDULE AND THE PROGRAMME

- i. Admissions will be held based on applications received. The first round of decisions will be based on applications received by **20/06/2017**. Applications will be accepted even after that till the date of interview, but shortlisting criteria may be different and will depend on candidates already called.
- ii. A test and / or interview will be held on the following date for all disciplines: **Monday 3/07/2017**.
- iii. Shortlisting will be done based on the availability of seats and academic performance of the candidates. A candidate fulfilling the eligibility criteria may not be shortlisted. Shortlisted

candidates whose applications are received by **20/06/2017** will be informed latest by **22/06/2017**.

- iv. There will be no support for travel for the interview.
- v. There is no application fee.
- vi. There will be no course requirement for the programme. However, students will be encouraged to take courses. There is no residency requirement for part-time students.
- 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.

HSS

Economics

MA in Economics with at least 60% marks or a CPI of 6.5

English

MA in English / Cultural Studies with at least 55% marks or a CPI of 6.0

Linguistics

MA in Linguistics with at least 55% marks or a CPI of 6.0

Political Science

MA in Political Science with at least 60% marks or a CPI of 6.0

Mathematics

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

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 indicated below. The OBC(NCL) Certificate, issued by competent authority, on or after 01-06-2016, shall only be acceptable.

Fees

Sl. No.	Items	Periodicity	Amounts (Rs.)
1.	Tuition Fee	Per Semester	5,000
2.	Institute Caution Money	One Time (Refundable)	5,000
3.	Hostel Rent (if staying in the hostel)	Per Semester	4,000
Total Without mess related fee / deposit			14,000
Mess related Collections for all hosteller students			
Sl. No.	Items	Periodicity	Amounts (Rs.)
4.	Mess Charges (every month)	monthly	3,500
GRAND TOTAL (1 to 4) to be paid on admission			17,500

SUBMISSION

Interested candidates are requested to apply by filling up the prescribed form available at www.iiitg.ac.in and sending it either electronically to acadoffice@iiitg.ac.in or by post. Please note that there is a limit on the email size that can be received (20MB), so please send your application form in the first email and the attachments in subsequent emails if the size exceeds 20 MB. Self-attested copies of all degrees and mark sheets must be enclosed. GATE / NET score card copy must be enclosed. The application form should be filled in the Word File template provided and should not be scanned. This is to reduce the size of the application and to enable us to extract information easily. You can sign the application form when you come for admission.

Sponsored Projects Description

	Principal Investigator	Title	Agency	Number
1	Institute	Design Innovation Centre (Internet of Things)	MHRD, through NEHU	2 (1 CSE, 1 ECE)
2	Moumita Roy	Adaptive Learning Models for Land-cover Classification with application in Remote Sensing based Monitoring of Agriculture and Forestry	Science and Engineering Research Board (SERB), DST	1
3	Ferdous Ahmed Barbhuiya	A Secure and Scalable Inter-cloud Authorisation framework for resource sharing in Cloud Environment	SERB	1
4	Dip Sankar Banerjee	Bridging Network Science and HPC: Accelerating Big Data Centric Network Analytics using HPC Technologies	SERB	1
5	Suchetana Chakraborty	Design and Development of an Adaptive Middleware for Smart Building Monitoring	SERB	1
6	Shirshendu Das	Reducing Energy Consumption and Operating Temperature of Last Level DRAM cache in Multicore Systems	SERB	1

Projects Subject to Approval

	Principal Investigator	Title	Agency	Number
1	Shovan Barma	A Prototype Design & Development of "Poke-Ball": An Additional Thread to Traditional Communication Medium by Means of Touch	DST	1
2	Shovan Barma	A Study on Influence of One Distinct Emotion on Other During Emotional State Transitions Based on EEG Signal	SERB	1
3	Soumyajit Poddar	An Unmanned Aerial Vehicle based platform to conduct survey of heritage sites to build a digital archive and virtual reality based view	SERB	2