

Advertisement for Ph.D. admission in Even Semester of Academic Year 2022-23

Indian and Foreign nationals are invited to apply online via Google Form (link will be made available on the Institute Website) for admission to Ph.D. programme in various Departments/Schools of Engineering, Sciences, Social Sciences, Computer Applications, and Business Administration for admission in Even Semester of Academic Year 2022-23. The following information pertains to the seats that are available:

Departments / Schools	Specializations
Civil Engg.	Geotechnical Engineering, Structural Engineering, Water Resources & Hydraulics Engineering, Environmental Engineering, Transportation Engineering, Remote Sensing
Computer Engg.	Computer Networks, Internet of Things, Software Defined Networking, Wireless Sensor Networks, Mobile Computing, Cloud Computing, Information Security, Cyber Security, Web Security, Cloud Security, IoT Security, Adhoc Network Security, WSN Security, Security in Pervasive Computers, Key Management in WSN, Online Social Networks, Image Processing, Signal Processing, Information Retrieval, Data Mining, Data Analytics, Pattern Recognition, Soft Computing, Biometrics, Machine Learning, Affective Computing, Software Engineering, Data Science
Information Technology	Computer Networks, Internet of Things, Software Defined Networking, Wireless Sensor Networks, Mobile Computing, Cloud Computing, Information Security, Cyber Security, Web Security, Cloud Security, IoT Security, Adhoc Network Security, WSN Security, Security in Pervasive Computers, Key Management in WSN, Online Social Networks, Image Processing, Signal Processing, Information Retrieval, Data Mining, Data Analytics, Pattern Recognition, Soft Computing, Biometrics, Machine Learning, Affective Computing, Software Engineering, Data Science
Electrical Engg.	Power System, Control system, Power Electronics & Drives, Renewable Energy
EC Engg.	Electronics & Communication Engineering
Mechanical Engg.	Production & Industrial Engineering, Thermal Engineering, Machine Design
Production & Industrial Engg.	Production & Industrial Engineering
Chemistry	Inorganic / Organic / Physical / Material / Analytical / Computational Chemistry
Math	Mathematics
Hum. & S.S.	Economics, Management, Psychology
Physics	Experimental Physics, Physics, Material Science

SREE	Solar Energy, IC Engines, Biofuel, distributed Generation, operational aspects of Renewable energy sources, micro grids stability, optimization in renewable integrated system, smart materials design and application performance issues in Micro Grid/smart Grid, Marine Renewable energy systems instrumentation and control applications in renewable energy systems, power electronics and renewable energy sources power system distribution network energy management, electric vehicle charging, application of soft computing techniques to power system, operation and control with renewable energy integration, control issues in hybrid renewable energy systems, CFD, Heat Transfer, CFD Modeling studios of renewable energy devices, CFD modeling of PCM-based enhanced latent heat storage systems
VLSI	Embedded System Design, Low Power VLSI Design, Micro Electronics & VLSI, VLSI Devices, Nano Electronics, IoT, Mixed signal VLSI, Nano Technology, VLSI Design, Semiconductor Devices, Analog Devices
Computer Applications	Cyber Physical Systems, Big Data, Artificial Intelligence, Knowledge Engg., Machine Learning, Any other specialization
Business Administration	Marketing Management, Financial Management

Institute Scholarship as per the seat matrix tabulated below for the admission in Even Semester of Academic Year 2022-23:

Gen	Gen (PWD)	EWS	EWS (PWD)	OBC (NCL)	OBC (PWD)	SC	SC (PWD)	ST	ST (PWD)	Total
17	02	07	NIL	18	01	5	01	06	NIL	57

Project seats

Deptt./Schools	No. of Slots	Title of Project	Specialization	Funding Agency	Duration
Computer Engineering	1	Visvesvaraya PhD Scheme for Electronics and IT: Phase-II	ESDM/IT /IT enabled services	Meit Y Government of India	05 years
Electronics & Communication Engineering	1				
Computer Applications	1				
Physics	1	Development of Synergetic dielectric and magnetic loss materials composite for high performance microwave absorption applications	Material Science	DRDO	Up to 22.03.2025

Note: No financial assistance will be provided to the scholar admitted under project fellowship or any scholarship other than Institute Scholarship by Institute at any stage

(Handwritten signatures and marks)

In addition to these seats, applications are also invited for Part-Time Ph.D. seats, Full-Time Ph.D. seats on CSIR-UGC-JRF, Visvesvaraya etc. fellowship scheme or under any Full-Time Ph.D. seats in project fellowship (on minimum two-years fellowship). Such seats are variable in number depending on the availability of the supervisors' slots of the concerned Department/School for Even Semester of Academic Year 2022-23.

Note: -

1. The number of Part-Time Ph.D. seats, Full-Time Ph.D. seats on CSIR-UGC-JRF, Visvesvaraya etc. fellowship scheme or under any Full-Time Ph.D. seats in project fellowship (on minimum two-years fellowship) will be decided by the respective Departments/Schools, as per availability of supervisors/slots.
2. Candidates working under a sponsored project at NIT Kurukshetra may be considered for Ph.D. admission by the concerned Department/School only if slots are available with the PI/Co-PI and PI/Co-PI is eligible to be the supervisor/co-supervisor. In addition to above, the project duration must be minimum two years from the date of admission in Ph.D. program.
3. At no stage, the Institute scholarship will be given to a candidate, in any case, who has been admitted under sponsored project or under any other sponsored scheme. Such scholars will be bound to follow terms and conditions of project sponsoring agency.
4. Only GATE-NET qualified candidates can apply against full time Institute Scholarship seats.
5. OBC(NCL)/EWS certificate must have been issued/renewed on or after April 01, 2022.
6. Candidate must fulfill the eligibility criteria by the last date of application i.e. **December 15, 2022.**

Admission process as per Ph.D. ordinance 2022-23:

Applications for Ph.D. Programme are to be invited from Indian and foreign nationals in the prescribed format. Applications as received will be scrutinized by the DRC/SRC of the concerned Department/ School. After scrutiny, the list of all eligible candidates will be uploaded on the Institute website by the Office of the Dean (Academic).

(a) All eligible candidates are required to appear in an objective type (MCQ) written test of PG level comprising two papers as mentioned below:

- Paper-I*: Analytical skills, Reasoning, Aptitude: 30 marks; Duration: 30 minutes
 - Paper-II: Area of Research/ Specialization: 40 marks; Duration: 40 minutes
- Qualifying marks**: 50 % of total marks (35 out of 70 marks).

The written test will be conducted by the respective Department/School. Detailed guidelines for conducting the entrance test along with timeline will be provided by Dean (Academic).

*Common to all Depts./Schools

** Relaxation as per the Govt. of India norms

- (b) List of the qualified candidates will be uploaded on the Institute website by the HoDs/ Coordinators of respective Departments/Schools.
- (c) All qualified candidates will be required to appear before the respective DRC/SRC for an interview/interaction comprising a brief power point presentation on the related research area. Qualified candidates may contact prospective supervisors in the Department/School.

(d) DRC/SRC will evaluate the candidates and award the marks out of 30 (10 marks each for presentation, interview, and academic achievements).
Qualifying marks: 50% (15 out of 30 marks) **

** Relaxation as per the Govt. of India norms

(e) Based upon their performance in both written test and interaction/interview with DRC / SRC, respective DRC / SRC will recommend the merit list of candidates prepared on the basis of total score out of 100 along with allocation of the seat in accordance with the advertisement and the respective allotted supervisor(s).

Such allotment should take care of uniform distribution of full-time research scholars (including candidates from other Departments/Schools) among all eligible supervisors.

Qualified scholars working in Govt./R&D Org./Industry sponsored project/fellowship are to be supervised by the coordinating faculty/ Principal Investigator (PI), provided the faculty/PI is eligible to become supervisor.

In case of tie, merit list will be prepared on the basis of following criteria in order of preference:

- (i) Performance of the candidate in written test
- (ii) Percentage of marks in qualifying degree
- (iii) Percentage of marks in 10+2
- (iv) Percentage of marks in 10th
- (v) Seniority as per Date of Birth

(f) After receiving the merit list as mentioned above, Dean (Academic) will issue the admission letters to recommended candidates for joining the Ph.D. programme.

(g) The respective HoD/School Co-coordinator will send joining reports of the respective research scholars to the office of the Dean (Academic) in time.

