

**Advertisement for Ph.D. admission in Odd Semester of Academic Year 2023-24:**

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 Academic Year 2023-24. The following information pertains to the seats that are available:

Departments / Schools	Specialization	Institute Scholarship Seats	
Civil Engg.	Geotechnical Engineering, Structural Engineering, Water Resources & Hydraulics Engineering, Environmental Engineering, Transportation Engineering, Remote Sensing	(Gen -04, EWS-01, OBC(NCL)-02, OBC(PwD)-01 SC-02, ST-1)	11
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, Ad-hoc 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	(Gen-03, EWS-01, OBC(NCL)-02, SC-01, ST-01)	08
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, Ad-hoc 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	(Gen-01, EWS-01, OBC(NCL)-01, SC-01)	04
Electrical Engg.	Power System, Control system, Power Electronics & Drives, Renewable Energy	(Gen-05, EWS-01, OBC(NCL)-03, SC-01, SC(PwD)-01 ST-01)	12
ECE	Electronics & Communication Engineering	(Gen-04, Gen(PwD)-01 EWS-01, OBC(NCL)-03, OBC(PwD)-01, SC-1)	11
Mechanical Engg.	Production & Industrial Engineering, Thermal Engineering, Machine Design	(Gen-04, Gen(PwD)-01 EWS-01, OBC(NCL)-03, OBC(PwD)-01, SC-1)	11
Production & Industrial Engg.	Production & Industrial Engineering	(Gen-01, OBC(NCL)-01, SC-01, ST-01)	04
Physics	Experimental Physics, Physics, Material Science	(Gen-01, EWS-01, OBC(NCL)-01)	03
Chemistry	Inorganic / Organic / Physical / Material / Analytical / Computational Chemistry	(Gen-01, OBC(NCL)-01, SC-01)	03
Math	Mathematics	(Gen-02, OBC(NCL)-01)	03
Hum. & S.S.	Economics, Management, Psychology	Gen-01	01

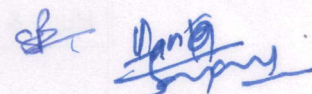
*[Handwritten signature and initials]*

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	OBC(NCL)-01	01
SVE	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	(Gen-01, SC-01)	02
MCA	Cyber Physical Systems, Big Data, Artificial Intelligence, Knowledge Engg., Machine Learning, any other specialization	(Gen-01, OBC(NCL)-01, SC-01)	03
MBA	Marketing Management, Financial Management	(Gen-01, EWS-01, OBC(NCL)-01)	03
<b>Total</b>		Gen-30, Gen(PwD)-02, EWS -08, OBC(NCL)-21, OBC(PwD)-01, SC- 11, SC(PwD)-01, ST-06)	80

### Project seats

Deptt./Schools	No. of Slots	Title of Project	Specialization	Funding Agency	Duration
Computer Engineering	1	Key Management for Secure Multicast Applications in Space Terrestrial Integrated Networks	Information Security	ISRO	Till August 2025
Chemistry	1	Smartphone Assisted Portable Chemical Sensor for the Detection of Toxic Metals and Pesticides in Water Bodies of Haryana	Chemical Sensor, Supramolecular Chemistry, Organic Chemistry and Analytical Methods	DST-Haryana	Till November 2025
	1	Supramolecular Organic-Inorganic Hybrid Gels for the Light-Activated Therapeutic Carbon Monoxide Delivery	Supramolecular Chemistry, Inorganic Chemistry, Drug Delivery and Nanomaterials	SERB-DST	Till January 2026
	1	Ruthenium Catalysed Dehydrogenation Reaction As a Platform from Hydrogen Storage Materials	Organometallic Chemistry & Catalysis	SERB-DST	Till February 2026
	1	Boosting of Energy Generation and Storage Properties by the Composite Materials of Multinary Metal Oxides and Carbon Allotropes Synthesized from Agriculture Bio-wastes	Solid State Chemistry	SERB-DST	Till January 2026
Electronics & Communication Engineering	1	Development Enabled Algorithm for AMR	Wireless Communication	ISRO	Till April 2025

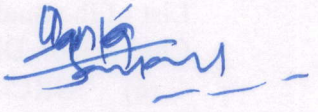
\*\*No financial assistance will be provided to the scholar admitted under project fellowship on completion of project.

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In addition to these seats, applications are also invited for Part-Time Ph.D. seats, Full-Time Ph.D. seats on CSIR-UGC-JRF etc. fellowship scheme or Full-Time Ph.D. seats in project fellowship (on minimum one-year fellowship). Such seats are variable in number depending on the availability of the supervisors' slots of the concerned Department/School for the Academic Year 2023-24.

Note: -

1. The number of Part-Time Ph.D. seats, Full-Time Ph.D. seats on CSIR-UGC-JRF etc. fellowship scheme or Full-Time Ph.D. seats in project fellowship (on minimum two-year 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, 2023.
6. Those candidates who are in the final year of their PG qualifying degrees need to fulfil the minimum educational eligibility requirements as per PhD regulation 2023-24 and submit the proof thereof by 31.10.2023 however, all other documents like Caste/Category Certificate, Course Completion Certificate will be required to be Produced in original on the date of DRC/SRC interview.
7. The last date for completion of minimum educational eligibility criteria and all other documents/certificates will be the date of DRC/SRC interview.

## Admission process as per Ph.D. ordinance 2023-24:

Applications for Ph.D. Programme are to be invited from Indian and foreign nationals in the prescribed format. Guidelines for the admission will be as under:

(a) Reservation in full-time/regular Ph.D. seats in various categories will be made as per the norms of the Government of India amended from time to time. Such reservation in various categories will be implemented in all Departments/Schools on a rotational basis. Academic Section will do this exercise before the beginning of new academic year, preferably in the month of March/April.

(b) 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).

(c) All eligible candidates shortlisted for presentation and interview will be required to appear before the respective DRC/SRC, which will act as the Admission Committee, for a brief power point presentation on the related research area followed by an interview. The candidates who are called for presentation and interview may contact prospective supervisors in the Department/School.

(d) All eligible candidates who are not exempted from the written test as per R-3.1 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\*\*: 40 % marks in each paper, however, 50% of total marks (35 out of 70 marks)

\*Common to all Depts./Schools

\*\* Relaxation as per latest Govt. of India norms

The written test will be conducted by the respective Department/School DRC/SRC (Admission Committee). Detailed guidelines for conducting the entrance test along with timeline will be provided by Office of Dean (Academic). However, the Admission Committee must have representation of members for the SC/ST/PwD reserved seats as per rules of the Institute. Such member(s) will be nominated by competent authority and could be a faculty teaching in any department / school of the Institute.

List of the qualified candidates in the written test will be uploaded on the Institute website by the Chairperson DRC/SRC with a copy to the Office of Dean (Academic).

(e) 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 latest Govt. of India norms

(f) For the candidates exempted from the written test as per R-3.1, DRC/SRC will award marks out of 100 on the basis of their presentation and interview with DRC / SRC for inclusion in the merit list. For all other candidates the score will awarded on the basis of total score out of 100. Based on the total number of seats available, the respective DRC / SRC will recommend the merit list of candidates along with allocation of the seat in accordance with the advertisement and the respective allotted supervisor(s).

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

Qualified research 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:

1. Performance of the candidate in written test (if not exempted)
2. Percentage of marks in qualifying degree
3. Percentage of marks in undergraduate degree
4. Percentage of marks in 10+2
5. Percentage of marks in 10th
6. Seniority as per Date of Birth

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

The respective HoD/School Co-ordinator will send joining reports of the respective research scholars to the Office of Dean (Academic)