SHIV NADAR
INSTITUTION OF EMINENCE DEEMED TO BE UNIVERSITY
DELHI NCR

SCHOOL OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

Ph.D ADMISSIONS

MONSOON 2024

SUSTAINABLE INFRASTRUCTURE SYSTEMS | WATER, ENVIRONMENT & CLIMATE | URBAN NETWORK SYSTEMS

ABOUT THE Ph.D. PROGRAM

The Department of Civil Engineering offers full-time, residential Ph.D. program in various Civil Engineering research domains.

All Ph.D. students will receive Tuition fee waiver (50% or 100% as per merit of the applicant, Teaching/Research Assistantship of ₹40,000/- per month for the first 2 years and ₹45,000/- for subsequent 3 years and a Research Grant of ₹1.5 lakhs for attending reputed conferences **(SEE DETAILS HERE)**.

AREAS OF RESEARCH

Sustainable Infrastructure Systems: AI-based Early Warning System for Natural Hazards, Building Science and Sustainability, Disaster Risk Analysis and Reduction, Geotechnical Infrastructure Systems, Intelligent Infrastructure Systems, Materials and Structures, Natural Hazards and Disaster Management, Structural Health Monitoring, Sustainable and Resilient Materials, Transportation Infrastructure Systems

Water, Environment, and Climate: AI and Emerging Techniques in Agriculture and Water Management, Hydraulic Structures, River Engineering, Hydrology and Water Resources Systems, Remote Sensing and GIS, Air Quality Science and Engineering, Municipal and Solid Waste Management, Water and Wastewater Engineering, Environmental Impact Assessment, Climate Science and Engineering

Urban Network Systems: Energy Systems Analysis and Sustainability, Multi-model Transportation Engineering, Sustainable Water Distribution System, Traffic Engineering, Transportation Systems, Urban Drainage System, Urban Water Conservation

INTERESTED CANDIDATES CAN APPLY ONLINE USING:

https://snu.edu.in/admissions/graduate-programs/

Please check our information brochure available on the above webpage for "IMPORTANT DATES".

DOCUMENTS REQUIRED FOR APPLICATION:

Educational documents, updated CV, colored passport photograph, standardized examination certificate (e.g. GATE, UGC-NET, etc.), Statement of purpose and Letter of recommendation.

ELIGIBILITY

- **Ph.D.**

  M. Tech./M.E. or equivalent degree in relevant discipline with a minimum of 60% or 6 out of 10 CGPA from a recognized technical institute or University.

- **Integrated Ph.D. (i-Ph.D.)**

  Candidates should have a Bachelor's degree in Civil Engineering or equivalent degree in Engineering/Science with a minimum of 75% or 7.5 out of 10 CGPA from a recognized technical institute or University.

SELECTION PROCESS

- PG / UG students in their final semesters are encouraged to apply.
- Written test and Technical interview (Candidates with valid GATE/NET score (95 percentile and above) are exempted from written test).

LAST DATE TO APPLY:

ROUND 1: 28TH APRIL 2024

ROUND 2: 12TH JULY 2024

THERE IS NO APPLICATION FEE

APPLICATION LINK:

CLICK HERE OR SCAN THE QR TO APPLY

Empowering Young Minds for Sustainable Development

FACULTY PROFILES

Dr. Atri Nath
Ph.D. IIT Kharagpur
Specialization: Structural Engg, Computational mechanics, Steel structures, fatigue and fracture, Material modeling

Dr. Ellora Padhi
Ph.D. IIT Kharagpur
Specialization: Water Resources Engineering, Turbulence in open channel flow, Sediment transport phenomena, River meandering

Dr. Gopal Das Singhal
Ph.D. IIT Roorkee
Specialization: Water Resources Engg, Hydraulic structures, River hydraulics, Smart agricultural water management

Dr. Gyan Vikash
Ph.D. IIT Kanpur
Specialization: Computational geomechanics, Constitutive modeling of geomaterials, Physics based - data driven modeling

Dr. Ghanshyam Pal
Ph.D. University of Mississippi, USA
Specialization: Structural Engg, Building physics, Novel cementitious composites, Multiscale numerical modelling

Dr. Gurmail Benipal
Ph.D. IIT Delhi
Specialization: Structural Engg, Constitutive modeling, Damage plasticity and thermo-chemo-visco-elasticity, Stability of structures

Dr. Hitesh Upreti
Ph.D. IIT Roorkee
Specialization: Water Resources Engg, Remote sensing in agriculture and water resources, Irrigation water management

Dr. Jagabandhu Dixit
Ph.D. IIT Bombay
Specialization: Earthquake Engg, Natural hazards and disaster risk reduction, Disaster mitigation and emergency management

Dr. Manoj Kumar Singh
Ph.D. IIT Delhi
Specialization: Structural Engg, Adaptive thermal comfort, Occupants behavior and built energy interaction, Building energy simulation, High-performance building envelopes

Dr. Sailesh Narayan Behera
Ph.D. IIT Kanpur
Specialization: Environmental Engg, Air quality monitoring and aerosol modeling, Pollution studies: water-air-soil inter- actions

Dr. Shalini Rankavat
Ph.D. IIT Delhi
Specialization: Transportation Engg, Transport planning and policy, Traff ic safety, Public transport and NMV planning

Dr. Sumedha Moharana
Ph.D. IIT Delhi
Specialization: Structural Engg, Piezoelectric impedance based structural health monitoring, Smart materials, Concrete durability

Dr. Susant Kumar Padhi
Ph.D. IIT Guwahati
Specialization: Environmental Engg, Biological & physio-chemical processes, Wastewater treatment, Solid waste management

RESEARCH LABORATORIES AND FACILITIES

UG Laboratories
- Concrete Technology Laboratory
- Experimental Soil Mechanics Laboratory
- Fluid Mechanics Laboratory
- Strength of Materials Laboratory
- Transportation Engineering Laboratory

PG-Research Laboratories
- Advance Materials and Building Energy Laboratory
- Air Quality Laboratory
- Air Quality Sampling Laboratory
- Disaster Management Laboratory
- Intelligent Geosystems Laboratory
- Theoretical and Computational Geomechanics Laboratory
- Water Management Field Laboratory

UG and PG-Research Laboratories
- Civil Engineering Computing Laboratory
- Environmental Engineering Laboratory
- Geoinformatics Laboratory
- Hydraulic Engineering Laboratory

FOR MORE INFORMATION, VISIT

Department of Civil Engineering:
https://snu.edu.in/schools/school-of-engineering/departments/department-of-civil-engineering/

For queries, write to:
DR. HITESH UPRETI
hitesh.upreti@snu.edu.in

RESEARCH HIGHLIGHTS

The Department of Civil Engineering received prestigious DST FIST-2022 RESEARCH GRANT from DST, Govt. of India.

ACTIVE AND RECENTLY COMPLETED EXTERNALLY FUNDED RESEARCH PROJECTS

Faculty Name (PI of project)	Project Area	Funding Agency
Dr. Atri Nath	Simulation of Cyclic-plastic Response of Additively Manufactured Materials	DST*
Dr. Ellora Padhi	A Novel Hybrid Approach for the Design of Stilling Basin to Counter the Downstream Local Scour	SERB#
Dr. Gopal Das Singhal	AI-based DSS for Improved Crop Water Use Efficiency using Regulated Drip Irrigation in the Backdrop of Climate Change	DST*
Dr. Ghanshyam Pal	Innovative Approach to Energy Savings in New and Existing Indian Habitat	DST*
Dr. Sailesh Behera	Physicochemical Characterization, Formation Mechanism and Human Health Risk Assessment of Size Fractionated Particulate Matter Emitted from Stationary Engine Exhausts	SERB#
Dr. Sumedha Moharana	Study of Adhesive Bond/Debond Effect on Electro- Mechanical Behavior of Coupled-Piezo Structural System	SERB#
Dr. Susant Kumar Padhi	Simultaneous Treatment of Gaseous BTEX and Wastewater Containing Nitrate and Sulphate by Using an Anaerobic Hybrid Bioreactor for Methane Production	SERB#

*DST is Department of Science and Technology, Government of India. | #SERB is Science and Engineering Research Board, Government of India

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