

Office of the Dean Academic Affairs
National Institute of Technology, Srinagar

ADVERTISEMENT NOTICE
DATED: 13-12-2018

Online applications are invited for enrolment in Ph.D. programmes (Full time and Part time) in the following departments for the Academic session Spring 2019.

S. No	Department	Areas of Research	Eligibility Criteria
1.	Civil Engg.	<p>Structural Engineering</p> <p>Structural Engineering, Reinforced Concrete, Bridge Engineering, Reinforced concrete.</p> <p>Water Resources Engineering</p> <p>Environmental Engineering and Water Resources Engineering/ Hydropower Engineering ,Fluid Mechanics , Irrigation & Flood Control</p> <p>Geotechnical Engineering</p> <p>Geotechnical Engineering/ Soil Dynamics</p> <p>Transportation Engineering</p> <p>Transportation Engineering/ Planning, Transportation Engineering/ Traffic Engineering</p> <p>Engineering Geosciences and Rock Engineering</p> <p>Engineering Geosciences and Rock Engineering</p>	<p>ME/M.Tech in relevant field of Engineering with a minimum CGPA of 6.5 or not less than 60% for General/OBC Category and for SC/ST/PWD minimum CGPA of 6.0 Or not less than 55% marks at Master's level or any other equivalent qualification recognized by the Institute.</p> <p style="text-align: center;">OR</p> <p>BE/B.Tech with valid GATE score above the prescribed cut off level / NET Qualification. The candidates shall have a minimum CGPA of 8.0 or not less than 75% for General /OBC Category and for SC/ST/PWD minimum CGPA of 7.5 or not less than 70% at BE/B Tech level</p> <p style="text-align: center;">OR</p> <p>Master's degree in Applied Geology/ Geology/ Earth Sciences or an allied area satisfying each of the following criteria:</p> <p>A minimum of 65 percent marks or 6.5 CGPA in the Master's degree. (a) First division in Bachelor's degree, and (b) With a valid GATE score or UGC/CSIR NET/NBHM or equivalent qualification in the relevant area tenable for the year of registration.</p>

S. No	Department	Areas of Research	Eligibility Criteria
2	Electrical	<p>A) Power & Energy Systems: This covers the following areas of research: Power System Dynamics & Control, Stand Alone Power System, Power System Operation & optimization, Renewable energy systems (Solar, Wind and Hybrid Systems), Smart Grid, Probabilistic Power System, Uncertainty quantifications, Deregulation, Distributed Generation, Application of Energy Storage Devices to Power Systems, Flexible AC Transmission System, Energy System Planning & Auditing, Loss Allocation, Power System Stability & Control.</p> <p>B) Power Electronics & Electric Drives: This covers the following areas of research: Power Electronics, Power Quality, Improved Power Quality Converters, Custom Power Drives (DSTATCOM, DVR & UPQC), Active Power Filters, Multi-level converters, Matrix converters, Electric Drives, Flexible AC Transmission System, Isolated Bidirectional DC-DC Converters, AC & DC Microgrids, Smart Grids, Special Machines & Control, Modulation Techniques, Electric Vehicles, Control of Renewable Energy Systems, Variable frequency transformer.</p>	<p>ME/M.Tech in relevant field of Engineering with a minimum CGPA of 6.5 or not less than 60% for General/OBC Category and for SC/ST minimum CGPA of 6.0 Or not less than 55% marks at Master's level or any other equivalent qualification recognized by the Institute.</p> <p style="text-align: center;">OR</p> <p>BE/B.Tech with valid GATE score above the prescribed cut off level / NET Qualification. The candidates shall have a minimum CGPA of 8.0 or not less than 75% for General /OBC Category and for SC/ST minimum CGPA of 7.5 or not less than 70% at BE/B Tech level</p>

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3	Electronics & Communication Engg.	Image Processing, Security, Biometrics, Optical Fiber Communication System, Opto – Electronic Devices, WireLess Communication, Digital Communication, Antennas, Nano Electronics, Semiconductor Device Modeling, RF Device Modeling and Extraction, Information Theory, Wireless Communication, Machine Learning, Biomedical Signal Processing, Semiconductor Device Modeling and Simulation,	<p>ME/M.Tech in relevant field of Engineering with a minimum CGPA of 6.5 or not less than 60% for General/OBC Category and for SC/ST minimum CGPA of 6.0 Or not less than 55% marks at Master’s level or any other equivalent qualification recognized by the Institute.</p> <p style="text-align: center;">OR</p> <p>BE/B.Tech with valid GATE score above the prescribed cut off level / NET Qualification. The candidates shall have a minimum CGPA of 8.0 or not less than 75% for General /OBC Category and for SC/ST minimum CGPA of 7.5 or not less than 70% at BE/B Tech level</p>
4	Chemical Engineering	Biochemical Engineering & Biotechnology, Modeling and Simulation, Biomass Conversion, Pollution Abatement, Biofuels, CFD, Fluid Flow, Heat & Mass Transfer, Nanotechnology, Heat, Mass and Fluid flow studies in Micro Channels, Studies on Continuous Electro refiner, Industrial Pollution control abatement, carbon dioxide Capture and Utilization, Coal Benefication, Phase Transfer Cataysis, Seperation Process	<p>ME/M.Tech in relevant field of Engineering with a minimum CGPA of 6.5 or not less than 60% for General/OBC Category and for SC/ST minimum CGPA of 6.0 Or not less than 55% marks at Master’s level or any other equivalent qualification recognized by the Institute.</p> <p style="text-align: center;">OR</p> <p>BE/B.Tech with valid GATE score above the prescribed cut off level / NET Qualification. The candidates shall have a minimum CGPA of 8.0 or not less than 75% for General /OBC Category and for SC/ST minimum CGPA of 7.5 or not less than 70% at BE/B Tech level</p>

S. No	Department	Areas of Research	Eligibility Criteria
5	Mechanical Engineering	<p>Experimental Fluid Mechanics and Heat Transfer, Thermal Energy Storage, Renewable Energy, Nano Fluids, Computer Aided Design of Thermal Systems</p> <p>Industrial Engineering, Decision Sciences, Ergonomics, Innovations and Entrepreneurship, Data mining and Manufacturing Strategies</p> <p>Tribology of Ceramics & Nano-Ceramics, Life Cycle Engineering, Tribology & Maintenance Engineering, Aircraft wing vibration, Smart Structures, Finite Elements Method</p> <p>IC Engine (Performance, Emission and Combustion), Utilization of Bio fuels, Combustion of Alternative fuels, Emission control Haptics, Robotics, Multi-body Dynamics, Fault tolerant Control System, MEMS (modeling and simulation), Direct Methanol Fuel Cells (DMFCs)</p> <p>Wear Modeling and Tribology, Nano Lubrication and Materials</p> <p>Smart Structures and Material Characterization, FEM, Production Technology, Welding, Materials Processing, Machining, Optimization and Modeling, Composites, High temperature Tribology</p>	<p>ME/M.Tech in relevant field of Engineering with a minimum CGPA of 6.5 or not less than 60% for General/OBC Category and for SC/ST minimum CGPA of 6.0 Or not less than 55% marks at Master's level or any other equivalent qualification recognized by the Institute.</p> <p style="text-align: center;">OR</p> <p>BE/B.Tech with valid GATE score above the prescribed cut off level / NET Qualification. The candidates shall have a minimum CGPA of 8.0 or not less than 75% for General /OBC Category and for SC/ST minimum CGPA of 7.5 or not less than 70% at BE/B Tech level</p>

S. No	Department	Areas of Research	Eligibility Criteria
6	Computer Science Engineering	Computer Networks and Security, Internet of Things, Algorithms, Machine Learning, Theoretical Computer Science, Computational Biology, Visual Cryptography	<p>i) 4year BE/B.Tech in Computer Science & Engineering / Information Technology / Electronics Communication Engineering</p> <p>ii) ME/M.Tech in Computer Science & Engineering/ Information Technology /Electronics & Communication Engineering. with a minimum CGPA of 6.5 or not less than 60% for General/OBC Category and for SC/ST minimum CGPA of 6.0 Or not less than 55% marks at Master's level.</p>
7	Metallurgy and Materials Science	Physical Metallurgy, Mechanical Metallurgy, Fly Ash, Corrosion Engineering, Process Metallurgy.	ME/M.Tech in relevant field of Engineering with a minimum CGPA of 6.5 or not less than 60% for General/OBC Category and for SC/ST/PWD minimum CGPA of 6.0 Or not less than 55% marks at Master's level or any other equivalent qualification recognized by the Institute.
8	Mathematics	Operation Research/ Statistics, Sequence Spaces, Measures of Non-compactness	Masters Degree in relevant field of Science with NET/GATE Qualification and a minimum CGPA of 6.5 or not less than 60% marks for General /OBC Category and for SC/ST minimum CGPA of 6.0 Or not less than 55% marks at Master's level or any other equivalent qualification recognized by the Institute.

S. No	Department	Areas of Research	Eligibility Criteria
9	Physics	Nanotechnology, condensed matter physics, Renewable energy, high energy physics, nanomaterials / material science	Masters Degree in relevant field of Science with NET/GATE/ JEST Qualification and a minimum CGPA of 6.5 or not less than 60% marks for General/OBC Category and for SC/ST/PWD minimum CGPA of 6.0 Or not less than 55% marks at Master's level or any other equivalent qualification recognized by the Institute.
10	Chemistry	Organic, Inorganic/ Environmental, Physical Chemistry , Material Chemistry, Natural Product Chemistry, Synthetic organic chemistry, Applied Chemistry Catalysis, Analytical Chemistry, Nano materials essential oils, non-linear optics	Masters Degree in relevant field of Science with NET/GATE Qualification and a minimum CGPA of 6.5 or not less than 60% marks for General/OBC Category and for SC/ST/PWD minimum CGPA of 6.0 Or not less than 55% marks at Master's level or any other equivalent qualification recognized by the Institute.

Relevant Degrees for Chemical Engineering

Degree	Description
M.Sc.	Chemistry (Organic/Physical/Inorganic/Analytical/Industrial etc.)
	Pharmaceutical Science or Pharmaceutical Engineering or Pharmacy
	Food Science or Food Engineering
	Biotechnology or Biochemistry
	Environmental Science or Environmental Engineering
B.Tech./ M.Tech.	Civil Engineering
	Metallurgy or Metallurgical and Materials Engineering
	Mechanical Engineering
	Agriculture Engineering
	Chemical Engineering
	Biochemical Engineering
	Petroleum Engineering
Petrochemical Engineering	

The candidates who have passed their M. Tech. through NIT Srinagar under sponsored category in and after the year 2016 are not eligible to apply.

Admission Categories:

- **Full Time :**
Fellowship
Sponsored
- **Part Time :**
Sponsored

• **Admission Procedure:**

The selection of candidates will be made on the basis of merit in written test and by the Institute.

• **Important Dates:**

Activation of Link for filling online applications = 15-12-2018
Last date to submit application forms = 05-01-2019

Hostel accommodation will be provided subject to availability.

Documents to be uploaded along with application:

1. Matriculation Certificate for verification of Date of Birth
2. B. Tech/B. E Degree and Marks Sheet
3. M.Tech./M.E. Degree and Marks Sheet.
4. GATE/NET /JEST score card
5. Migration Certificate (in case a student coming from other University/Institute).
6. No Objection cum Service Certificate from the employer (in case of in-service candidates) (The format may be downloaded from Institute website)
7. Schedule Caste/Schedule Tribe/Physically Handicapped Certificate/OBC (NCL) certificate.
8. Nature of employment, Research experience, publication and other related details.

Sponsored Full Time/Part Time candidates must produce the following documents at the time of Enrolment.

- a) No Objection Certificate & Sponsorship Certificate from the employer.
- b) Proof of 02 years regular services
- c) Deputation order from employer for 06 months from start of enrolment for completing course work for part time candidates.
- d) Internal faculty and Institute candidates will be exempted from any test and deputation order by this Institute

The candidates have to apply online using the link nitsriadmission.mastersofterp.in Candidates are required to pay application processing fee in the form of Demand Draft for Rs: 400/= (in case of SC/ST candidates Rs: 200/ only) drawn in favor of Director, NIT Srinagar, payable at Srinagar by or before 05-01-2019 . The D.D. details should be uploaded along with the application form and the original D.D. submitted at the time of written test.

Applications will be screened by concerned Departments and list of eligible candidates will be put on website www.nitsri.ac.in All announcements related to admissions will be made through our website. All candidates are advised to keep in touch with the website till the process of enrolment is complete.

(Prof. (Dr.) Kowsar Majid)
Dean Academic Affairs

No.NIT/DAA/M. Phil / Ph. D/2018/1084

Dated: 13-12-2018

Copy for information and n/a to:

1. All Deans, National Institute of Technology Srinagar.
2. All Heads of the Department, National Institute of Technology Srinagar.
3. Coordinator, NIT Camp Classes, Old University Campus, Canal Road, Jammu
4. Registrar, National Institute of Technology Srinagar
5. Dy. Registrar (Accounts), National Institute of Technology Srinagar.
6. Controller of Examinations, National Institute of Technology Srinagar
7. Officer Incharge web is requested to please direct the concerned to upload the above advertisement Notice along with application form on the Institute website
8. PA to Director, NIT Srinagar for kind information of the Director Pl.
9. Advertisement Notice File for record and reference.

Annexure IV

Final Ph. D Slot Position available for advertisement for session Spring-2019

Department	OP	OP (PWD)	SC	SC (PWD)	ST	ST (PWD)	OBC	OBC (PWD)	Total
Civil Engg.	1	1	3	1	1	0	5	0	12
Mechanical Engg.	2	0	1	0	1	0	4	0	8
Electrical Engg.	1	0	1	0	0	0	2	1	5
Electronics & Communication Engg.	1	0	2	0	2	0	3	0	8
Chemical Engg.	2	0	2	0	1	0	4	1	10
Metallurgical & Materials Engg.	1	0	1	0	0	0	1	1	4
Information Technology	0	0	0	0	0	0	0	0	0
Computer Science & Engg.	1	0	1	0	1	0	1	0	4
Physics	3	1	3	0	0	0	3	2	12
Chemistry	2	1	3	0	0	0	4	2	12
Mathematics	3	0	1	0	1	0	1	0	6
Total	17	3	18	01	07	0	28	07	81