

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

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ADVERTISEMENT NOTICE

DATED:- 31-05-2018

Online applications are invited for enrolment in Ph.D. programmes in the following departments for the Academic Year- 2018.

S. No	Department	Areas of Research	Eligibility Criteria
1.	Civil Engg.	<p><b>Water Resources Engineering:</b></p> <p>Environmental and Water Resources Engg., Disaster Management, Hydraulic Structures, Social Water Plant atmosphere Relationships, River Engineering, Hydropower, Renewable Engineering, Hydrology, Sediment Transport, Climate Change.</p> <p><b>Geotechnical Engg</b></p> <p>Geotechnical Engg/ Soil Dynamics, Ground Improvement Techniques Engineering Geosciences and Rock Engineering</p>	<p><b>ME/M.Tech</b> 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;"><b>OR</b></p> <p><b>BE/B.Tech with valid GATE score above the prescribed cut off level/NET Qualification.</b> 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><b>Geology:</b></p> <p>Engineering Geo Science or Rock Engineering</p>	<p><b>Master's degree in Applied Geology/ Geology/ Earth Sciences or an allied area satisfying each of the following criteria:</b></p> <p>(a) A minimum of 65 percent marks or 6.5 CPI in the Master's degree.</p> <p>(b) First division in Bachelor's degree, and</p> <p>(c) With a valid GATE score or UGC/CSIR NET/NBHM or equivalent qualification in the relevant area tenable for the year of registration.</p>
2	Electrical Engg.	<p>Power System Dynamics &amp; Control, Stand Alone Power System, Application of Energy Storage Devices to Power Systems, Power Systems Operation &amp; Optimization, Flexible AC Transmission System, Energy System Planning &amp; Auditing, Wind Energy Conversion Systems, Power Electronics, Power Quality, Electric Drives, Custom Power Devices, DC micro-grid, Control Theory, Model Order Reduction of linear, non-linear and parametric systems, Finite Element Modelling of Distributed Parameter System.</p>	<p><b>ME/M.Tech</b> 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;"><b>OR</b></p> <p><b>BE/B.Tech with valid GATE Score above the prescribed cut off level/NET Qualification.</b> 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>

3	Electronics & Communication Engg.	<p>Image Processing Biometrics, Security, Communication System, Optical Fiber Communication, Optical Devices, Digital Communication, Wireless Communication, Antennas, Micro Electronics, VLSI, Semi Conductor Devices</p> <p>Network security, Wireless Communication, Sensor Networks, Information Security, Networks, Forensics, Communication Theory, Digital communication, Antenna Theory, Computer Networks, Electronic circuits and devices, Microelectronics, Analog CMOS Design, Organic Electronics.</p>	<p><b>ME/M.Tech</b> 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;"><b>OR</b></p> <p><b>BE/B.Tech with valid GATE score above the prescribed cut off level/NET Qualification.</b></p> <p>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	Mechanical Engg.	<p>Tribology, Tribology of advanced ceramics &amp; Nano Ceramics, Life Cycle Engineering, Tribology &amp; Maintenance Engineering, Aircraft wing vibration, Smart Structures, Finite Elements, Material Engineering, Internal Combustion Engines, Combustion of Alternative fuels, Emission control, Haptics, Fault tolerant Control System, MEMS modeling and simulation DMFC, Wear Modelling, Materials, Tribology, Nano Lubrications, Materials, Tribology, Smart Structures and Material</p>	<p><b>ME/M.Tech</b> 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;"><b>OR</b></p> <p><b>BE/B.Tech with valid GATE score above the prescribed cut off level/NET Qualification.</b> 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</p>

		<p>Characterization, FEM,</p> <p>Experimental Fluid Mechanics, Active Flow Control, Renewable Energy, Nanofluids, Heat Transfer Enhancement.</p> <p>Computational Mechanics,</p> <p>Thermo elasticity and second sound fracture Mechanics and Material Fatigue.</p> <p>Tribology and Maintenance Management.</p> <p>Design of Thermal Systems.</p> <p>Tribology and bio Materials</p>	less than 70% at BE/B Tech level
5	Chemical Engg.	<p>Biomass conversion to Energy, bioremediation, Environmental-pollution abatement, Downstream processing in Biochemical Engineering, Downstream processing in chemical Engineering, Fermentation, modeling and simulation,</p> <p>Membranes (Synthesis, Characterization and separation), Fuel cells, Electro dialysis, Electrochemical Systems, Heat Transfer and Fluid Mechanics, Biomass Conversion, Nano Technology, Photocatalysis, Environmental/Pollution, Waste Water</p>	<p><b>ME/M.Tech</b> in <i>relevant field</i>* 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;"><b>OR</b></p> <p><b>BE/B.Tech. in <i>relevant field</i> * with valid GATE score above the prescribed cut off level/NET Qualification.</b> 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> <p style="text-align: center;"><b>OR</b></p> <p><b>Master's degree in relevant field * satisfying each of the following criteria:</b></p> <p>(a) A minimum of 65 percent marks or 6.5 CPI in the</p>

			<p>Master's degree.</p> <p>(b) First division in Bachelor's degree, and</p> <p>(c) With a valid GATE score or UGC/CSIR NET/NBHM or equivalent qualification in the relevant area tenable for the year of registration.</p>
6	Computer Science & Engg.	Computer Networks and Security, Internet of Things, Algorithms , Machine Learning	<p>1)4year BE/B.Tech in Computer Science &amp; Engineering/Information Technology/Electronics Communication Engineering</p> <p><b>ii) ME/M.Tech</b> in Computer Science &amp;Engineering/Information Technology/Electronics &amp; 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 Metallurgical, Mechanical Metallurgy, correction and welding	<p><b>ME/M.Tech</b> 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>
8	Information Technology	Wireless sensor networks, Internet of things, Cloud computing, Data Analytics,	1)4year BE/B.Tech in Computer Science & Engineering/Information Technology/Electronics &

		Artificial intelligence/ Machine learning, Computer Vision.	Communication Engineering / Computer Science  <b>ii) ME/M.Tech</b> in Computer Science & Engineering/Information Technology/Electronics & Communication Engineering/ Computer Science 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
9	Mathematics	Operation Research Statistics	<b>Masters Degree in relevant field of Science</b> with <b>NET/GATE Qualification</b> 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.
10	Physics	Nanotechnology, condensed matter physics, Renewable energy, high energy physics, nanomaterials/ material science	<b>Masters Degree in relevant field of Science</b> with <b>NET/GATE/ JEST Qualification</b> 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.
11	Chemistry	Organic , Inorganic / Environmental, Physical	<b>Masters Degree in relevant field of Science</b> with <b>NET/GATE Qualification</b> 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.
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\* Relevant Degrees for Chemical Engineering

<b>Degree</b>	<b>Description</b>
<b>M.Sc.</b>	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>B.Tech./ M.Tech.</b>	Civil Engineering
	Metallurgy or Metallurgical and Materials Engineering
	Mechanical Engineering
	Agricultural 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
  - Visvesvaraya (Electronics & Communication Engineering)

(The candidates selected under this category (Visvesvaraya) will be paid Rs, 2.5 lakh on successful completion of Ph.d)

#### **Fellowship Categories:**

- **Institute Fellowship:** The candidates selected under this category shall receive fellowship for a maximum period of five years.
- **TEQIP-III Fellowship:** The candidates selected under this category shall receive fellowship till March-2020. Beyond March-2020 the candidates shall have to carry out their research in self sustaining mode. There is one TEQIP-III fellowship in each department.

#### **Admission Procedure:**

The selection of candidates will be made on the basis of merit in written test and interview conducted by the concerned department.

For candidates opting for both categories of fellowships, the candidates with higher merit will be awarded the Institute fellowship.

In case, result of qualifying degree is awaited, provisional admission is permitted to a candidate subject to meeting above minimum qualifying degree requirements latest by **September 15, 2018**. In these cases, all exams should have been completed by **July 15, 2018**. A documentary proof to that effect and Mark sheet/Grade card till pre-final semester should be submitted by the candidates along with their applications.

All required/notified documents have to be submitted on due date of enrolment, failing which enrolment will not be possible.

#### **Important Dates:**

- Activation of Link for filling online applications = 01-06-2018
- Last date to submit application forms = 15-06-2018



**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 <http://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 **15-06-2018**. 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](http://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.

SD/-  
(Prof. (Dr.) M.A.Ahanger)  
Dean Academic Affairs)

Dated: 30 -05-2018