Applications are invited for admission to Ph.D. Programme in Odd Semester-2019.
Application form and Information Brochure can be downloaded from NITUK website [www.nituk.ac.in](http://www.nituk.ac.in)

**Eligibility:** A candidate is eligible for registration to Ph.D. Program if he/she satisfies the following conditions:

A Master's degree in the concerned or an allied subject with a minimum of 1st class (C.P.I or C.G.P.A. greater than 6.75 on a 10 point scale if class is not provided) and GATE / NET (CSIR/UGC/LS) in the concerned subject or discipline.

Or

A Bachelor’s degree with minimum of 1st class (C.P.I or C.G.P.A. greater than 6.75 on a 10 point scale if class is not provided) with at least 55% marks at Master's level and GATE / NET (CSIR/UGC/LS) in the concerned subject or discipline.

**Note:** GATE / NET (CSIR/UGC/LS) in the concerned subject or discipline is mandatory. However, relaxation from the requirement of GATE/NET will be given only for admission into part time Ph.D. Program, for candidates with two years of experience in reputed Academic/Industrial Organizations or Govt. funded Research Projects. However, essential qualifications, Fees structure, other terms & conditions will be same as per Ordinances of the Institute.

Department/Subject wise list of Areas of Research in Ph.D. Programme is as under:

<table>
<thead>
<tr>
<th>Name of Department</th>
<th>Area of research</th>
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</table>
| CIVIL              | 1. Structural Engineering  
2. Concrete Technology  
3. Transportation Engineering  
4. Pavement Materials  
5. Geotechnical Engineering  
6. Structural Dynamics  
7. Structural Health Monitoring  
8. Structural System Identification  
9. Earthquake resistant design  
10. Computational Structural Mechanics  
11. Finite element method  
12. Building Materials |
4. Pattern Recognition, Machine Learning, Biometrics, |
3. Optical Communication, Optical Sensor Plasmonics, Optoelectronics  
5. Microelectronic devices.  
6. Industrial Applications of Microwave Engineering, Microwave Imaging, Remote Sensing, Microwave Harvesting, Microwave Hazards on ecosystems, Planar antenna Solutions for Various Microwave Applications  
8. Microelectronics & VLSI Design |
|---|---|
| EEE | 1. Control scheme for various application in Power System and Power Electronics, various controllers (Fractional order controllers, Model predictive controllers, PID controllers, Kalman Filter LQR, LQG and state Observers). Multilevel Inverter and its control. Close loop control of DC-DC isolated, non-isolated converter, Bi-directional DC-DC converter.  
2. Advance Electric Drives and it’s control, Electric Vehicle. Different types of Induction generator (DFIG, SFIG) and it’s applied to induction generator. Renewable energy: Solar energy conversion system, Battery energy storage system and it’s control, Different types of DC-DC convertor and DC-AC convertor for Solar energy conversion system. Flexible AC Transmission System, Active Power Filter Multilevel Inverter and its control. Close loop control of DC-DC isolated, non-isolated convertor, Bi-directional DC-DC convertor.  
3. Power system protection, micro grid, smart grid, renewable energy application, wams based protection schemes, renewable energy integration with grid. |
| MEC | 1. CAD and Additive Manufacturing (AM)  
2. Thermal Engineering  
3. Manufacturing  
4. Thermal, Alternate fuels  
5. Design |
### Selection Procedure:
The eligible candidates will be called for written test. There will be objective type questions as per Gate/NET syllabus. The candidate who secures at least 40% marks in the written test will be shortlisted for interview. Interview shall be conducted on the same day. The list of shortlisted candidates for written test will be uploaded on Institute's website: [www.nituk.ac.in](http://www.nituk.ac.in). No separate letter/communication will be made to any individual for written test. Candidates are advised to visit the Institute website in this regard.

### Important Points:
- Candidates MUST specify broad areas of research in the application form in which he/she is interested to work.

<table>
<thead>
<tr>
<th>Selection</th>
<th>Sci. &amp; Hum.</th>
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<thead>
<tr>
<th>Science</th>
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<tbody>
<tr>
<td>Chemistry</td>
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<tr>
<td>Physics</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>English</td>
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</table>

<table>
<thead>
<tr>
<th>Science</th>
<th>Science</th>
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<tbody>
<tr>
<td>Physics</td>
<td>1. Magnetic Materials</td>
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<tr>
<td>4. X-ray scattering, charge and magnetic Compton Profile, ab-initio calculations, density functional theory, solar cell materials.</td>
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<tr>
<th>Mathematics</th>
<th>Mathematics</th>
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<tr>
<td>1. Mathematical Modeling; Biofluid Mechanics; CFD; Bone Mechanics; Microfluidics; Hybrid Nanofluids; Numerical simulations of Transport Phenomena</td>
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<td>2. Study of nonlinear waves in fluids/ Quasilinear hyperbolic system of PDEs.</td>
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<tr>
<th>English</th>
<th>English</th>
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<tbody>
<tr>
<td>1. Postcolonial Studies, Cultural and Ecocultural Studies, Indian English Literature.</td>
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<tr>
<td>2. ELT, Communication, Postcolonial literature, film studies, diaspora studies.</td>
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</table>
• Candidate has to attach a demand draft of Rs.500/- as application fee (Non-Refundable) with the application form. Application form without demand draft of Rs.500/- will be rejected.
• Incomplete Application Forms received after the last date will be rejected. Institute will not be responsible for any postal delays.
• Candidates having valid GATE score or NET (LS) will be awarded Institute fellowship as per Govt. of India norms for Full-time Program.
• Candidates having NET-JRF (CSIR/UGC) can apply for full-time Ph.D. Program through this advertisement.
• The Candidates admitted under Institute fellowship in full-time Ph.D. programme will be awarded fellowship by the Institute as per Govt. of India norms.
• A Ph.D scholar sponsored by the Institute will be awarded fellowship by the Institute for maximum 5 years from the date of joining the Ph.D Program subject to the satisfactory performance as recommended by RPC from time to time.
• Part time Candidates will not be provided any fellowship from the Institute.
• List of shortlisted candidates for written test will be displayed on institute website.
• No separate letter / communication will be made to any individual for written test.
• Candidates are advised to visit Institute's website to know the Fees structure, Ordinances, Rules & Regulations for Ph.D. Programme.
• The candidates are advised to visit the Institute website for Faculty Expertise and also for updated information about the Ph.D. Programme of Odd Semester-2019.
• Research scholar selected for the Ph.D. Programme will have to complete the specified course work as per Ordinances.
• Accommodation is available for the Ph.D. scholars in the hostel of the Institute.
• Candidates will not be given TA/DA/ any allowances for attending written test & interview.
• Institute does not guarantee the availability of supervisor in the area of research desired by the candidate. Candidates are advised to discuss with faculty of the Department to identify whether their research interest match with the experts available and whether any supervisor is willing to offer project in the desired area.
• The rules & regulations regarding Ph.D program are mentioned in the Ph.D Ordinances and the same is uploaded on Institute website.
• The selected candidates for Ph.D. Programme will be informed through an official letter by the Institute and the list will also be displayed on the Institute website.
• **Institute reserves the right to cancel the admission of a student at any stage of Ph.D. Program, if it is found that the candidate did not fulfill the essential qualifications/experiences/other terms & conditions as per the requirements of the advertisement.**
• **Institute reserves the right to cancel the process of Ph.D admission at any stage without assigning any reason.**
Details of Ph.D. Fee Structure:

a) Application fee for Ph.D. registration: Rs. 500/-

b) Other fees:

(I) Registration Rs. 5,000/- (one time)
Tuition Fee Rs. 15,000/- (annual)
Caution money Rs. 3,000/- (refundable)
Library fee Rs. 2,000/- (one time)
Development fee Rs. 10,000/- (annual)

TOTAL Rs. 35,000/-

Rs. 35,000/- is to be paid before 31st January / 31st July.

(II) Subsequent years: Annual fees
Tuition fee Rs. 15,000/-
Development fee Rs. 10,000/-

TOTAL Rs. 25,000/-

Rs. 25,000/- is to be paid before six monthly seminars of June / December.

Examination fee:
The examination fee of Rs. 5000/- shall be paid by the candidate prior to the Submission of the thesis.

Note:
1. The delay in payment of semester fees may invite cancellation of registration. Payment of fees is annual. Six-monthly seminar shall not be conducted without payment of fees.
2. If the thesis is submitted after 31st December /30th June, candidates are required to pay the fees for next academic session.

How to apply for admission to Ph.D. Programme in Odd Semester 2019:
The application form and other relevant information for admission to Ph.D. Programme Odd Semester 2019 can be downloaded from the Institute website: www.nituk.ac.in.

Duly filled Application form along with DD of Rs. 500/-, issued by any Nationalized bank, in favor of The Director, NIT Uttarakhand, payable at Srinagar (Garhwal), Uttarakhand, and all the documents mentioned below should reach to Assistant Registrar (Academic), NIT Uttarakhand on or before 03.08.2019 by 05:00 PM.

The following documents (whichever applicable) arranged in the order given below should be enclosed along with the duly filled application:

(i) Photocopy of High School (10th class) certificate.
(ii) Photocopy of Under-Graduate degree certificate and mark sheet.
(iii) Photocopy of Post-Graduate degree certificate and mark sheet.
(iv) Photocopy of GATE score card or NET (CSIR/UGC/LS) qualifying certificate.
(v) Photocopy of caste certificate (if applicable):
   (a) In case of SC/ST candidates, Caste Certificate (In Central Govt. Format) should be issued by
       the competent authority (not below the rank of SDO/SDM/Tahsildar).
   (b) In case of OBC candidate, Caste Certificate (In Central Govt. Format) should be issued by
       the competent authority (not below the rank of SDO/SDM/Tahsildar) indicating the status
       regarding Non Creamy Layer (NCL). **The certificate should be issued after 1st April, 2019.**
(vi) Photocopy EWS certificate (if applicable), the Certificate (In Central Govt. Format) should be
     issued by the competent authority (not below the rank of SDO/SDM/Tahsildar) indicating the
     annual income of the family.
(vii) Photocopy of PWD certificate (if applicable), the Certificate (In Central Govt. Format) should be
     issued by the authorized medical authority.
(viii) Photocopy of the TC/Migration Certificate.
(ix) If employed, No Objection Certificate (NOC) and other documents from the employer in support
     of your application.
(x) Photocopy of all the publications (if any).
(xi) Photocopy of teaching/research experience certificate (if any).
(xii) Profile of the Organization/ Employer in case of SRS category candidate.
(xiii) Photocopy of credentials including AICTE recognized short-term courses attended, research
      publications, professional qualifications etc.

**Note:**

1. All the photocopies of documents attached with the application form should be self-attested by the candidate.
2. Candidate has to produce all the Original documents against the photocopies attached with the application on the day of reporting before written test. In case of failure to produce any required document, the candidate will not be allowed to appear in written test.
3. Incomplete / incorrect applications will not be considered for admission.
4. If seeking admission to Ph.D. Programme as Part Time candidate, candidate has to produce a proof at the time of interview that he/she will be granted leave for a minimum period of six months for course work.
5. The eligibility shall be determined on the basis of the documents received by the last day of receiving the applications.
Important Dates:

<table>
<thead>
<tr>
<th>Event</th>
<th>Date/Time</th>
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<tbody>
<tr>
<td>Last date for receipt of application form.</td>
<td>03.08.2019 by 05:00 PM</td>
</tr>
<tr>
<td>Date of displaying the list of eligible candidates for written test on Institute website.</td>
<td>14.08.2019</td>
</tr>
<tr>
<td>Date, time and place of reporting for documents verification followed by written Test.</td>
<td>Date: 22.08.2019</td>
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<td>Time: 9:15 AM</td>
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<td>Place: Conference Hall</td>
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<td>NIT, Uttarakhand</td>
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<td>Govt. I.T.I Campus</td>
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<td>Srinagar (Garhwal)</td>
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<tr>
<td>Date and time of interview at NIT, Uttarakhand.</td>
<td>22.08.2019, at 3.00 pm</td>
</tr>
<tr>
<td>Date of announcement of result on Institute website.</td>
<td>16.09.2019</td>
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</tbody>
</table>

Visit institute website: [www.nituk.ac.in](http://www.nituk.ac.in) regularly for more details and updates.

**How to reach NIT, Uttarakhand:** Please visit institute website [www.nituk.ac.in](http://www.nituk.ac.in) and click on How to Reach Quick link.

**Disclaimer:**

The statement made in the Information Brochure and all other information contained herein is believed to be correct at the time of publication. However, the Institute reserves the right to make any changes in and additions to the regulations, conditions governing the admission, requirements, seats, fees and any other information, or statements contained in this information brochure, at any time without notice. No responsibility will be accepted by the Institute for hardship or expenses encountered by its students / any other person for such changes, additions, omissions or errors, no matter how they are caused.

**ADDRESS FOR CORRESPONDENCE:**

Assistant Registrar (Academic),
National Institute of Technology, Uttarakhand,
Govt. I.T.I., Srinagar (Garhwal),
District- Pauri Garhwal,
Uttarakhand - 246174.
Telephone: 01346-257404, E-mail: academic.nituttarakhand@gmail.com

Registrar
NIT, Uttarakhand