

**NETAJI SUBHASH INSTITUTE OF TECHNOLOGY
AZAD HIND FAUJ MARG, SECTOR- 3, DWARKA
NEW DELHI- 110078**

**ADMISSION TO Ph.D PROGRAMMES
Academic Session 2011-12**

Netaji Subhash Institute of Technology is a fully residential Institute located in Sector-3 at Dwarka , New Delhi. It was established in 1983 by Delhi administration with the approval of the Govt. of India to meet the growing demand of manpower in high-tech areas of Engineering & Technology. The institute became autonomous in 1987.

With in a span of 28 years since its inception, NSIT has carved a name for itself and it is now an established institute with well equipped modern Laboratories, well laid down `Profile of Growth` and a strong commitment for achieving excellence in technical education and research, with the ultimate goal of achieving University status in near future.

Ph.D Programmes (Full- Time)

Applications are invited for Teaching- cum-Research-fellowship in the following Divisions:-

- (i) **Division of Electronics & Communication Engineering (ECE):** Bipolar and CMOS analog circuit design, Analog VLSI circuits/Analog Signal Processing, DSP; Digital Communication; Optical networks, Optical communication, Wireless and Mobile Communication.
- (ii) **Division of Computer Engineering & Information Technology (COE & IT) :** Reconfigurable Computing and FPGA, Software Engineering, Information System, Real Time Systems, Artificial Intelligence, Data Mining, Image Processing, Computer Networking, Mobile computing, Hardware Software Co-design, Sensor Networks, Video modeling & processing, Video Broadcasting, Text Classification, Software Testing, Adhoc Networks, Human behaviour & Data mining.
- (iii) **Division of Instrumentation and Control Engineering (ICE):** Industrial Electronics and industrial drives, Instrumentation including Biomedical and intelligent instrumentation, Process Control and Mechatronics, Networking and Distributed Computer Control System. Intelligent Control, optimal control, Fractional order Controllers, Bioinformatics, Game theory, Reinforcement learning and its Applications In Robotics.
- (iv) **Division of Manufacturing Processes and Automation Engineering (MPAE):** Manufacturing Processes, Manufacturing Automation, Computer Aided Design & Manufacturing, Computer Integrated Manufacturing, Electrochemical & Electrodischarge Machining, Unconventional Machining Process, Robotics and Multicriteria decision methods using AI, Hybrid machining Technology.
- (V) **School of Applied Sciences (SAS): Mathematics :** Approximation Theory, Fluid dynamics, Biomechanics, Linear and Nonlinear waves, Cosmology, Astronomy and Astrophysics, Complex analysis, Partial Differential Equations, General Relativity, Gas Dynamics. **Chemistry :** Inorganic Chemistry, organic Chemistry, Physical Chem. **Physics:** Material Science, Elastic Dielectrics, Nanometric Dielectrics, Electro-mechanical transducers/sensors/Electrical Characterization of MCT Heterostructures. Solar Energy (Heat Transfer) & Energy Engineering, Solar Energy Materials, Solar Cell, Nano Solar Energy materials, mathematical Modelling and Simulation, Green building and solar Passive Technology.
- (vi) **Bio-Technology:** Bio-Technology, Microbiology, Biochemistry, Genetics, Molecular Biology, Pharmacy and Biophysics, Computational Biology & Bioinformatics.
- (vii) **Humanities:** Sociolgy of Science and Tech., Sociology of Education and Professions and Globalization, English Language teaching, Acquisition and development Sociolinguistics.

Eligibility Conditions

Master's degree in Engineering/Technology in the relevant discipline (**For ECE, COE, ICE, MPAE, IT**) Securing 70% or more marks in aggregate **and Masters Degree in Science** or Equivalent in relevant area (as detailed at point No. V & Vi above) of Applied Sciences & Bio-Technology (in accordance with Ordinance VI-B, University of Delhi) securing 70% or more marks in aggregate.

Candidates having only M.Sc. degree (without M.Tech. or M. Phil degree) will be required to complete course work as detailed in ordinance VI B of University of Delhi. However, if the candidate has qualified any of the national level fellowship exams for example, CSIR-UGC/ICAR/ICMR/DBT/DST, Inspire fellowship or GATE examination after Master's degree he/she will not have to undergo any course work.

The candidates possessing Master degree with 60% or more marks who are eligible for Ph.D. degree as per ordinance VI B of University of Delhi may also apply for admission for Ph.D. degree but they will be admitted without scholarship and they will be required to comply with the other formalities of ordinance VI B displayed on Institute website and will be selected through a written test followed by Powerpoint Presentation and Interview.

A written test will be organized on department level which will have multiple choice questions. The selection of the candidate shall be made by the selection committee of the respective department on the basis of the performance of the candidate in written test, power point presentation and Interview (the weight age will be in the ratio of 20 : 30 : 50). Interviews will be held in Oct./Nov. 2011.

Candidates selected for admission to the Ph.D. Programme will have to subsequently apply to the University of Delhi for Ph.D registration as per University Rules.

Candidate appearing in the qualifying exams must ensure that their final results (with requisite marks) are declared before the date of Interview (probably in Oct./Nov. 2011) otherwise they will not be allowed to appear before the selection board.

Selected candidates shall be required to deposit institute fee and other charges immediately at the time of registration for which he/she will be intimated before the date of registration well-before-the-time. The amount payable by him/her will be in DD/cash as per rule. Limited hostel accommodation is available which will be provided to students subject to availability.

No TA/DA will be admissible to the applicants called for written Test/Interview.

Financial Assistantship to Ph.D Scholars

The institute aims at identifying suitable candidates having keen interest in teaching and research who would like to take up a career in Academics. In line with this objective, therefore, a scheme "Teaching-cum-Research-fellowship" has been introduced. Exceptionally brilliant candidates having keen interests in an academic career, shall be considered for this fellowship.

The Institute currently offers a Teaching-Cum-Research Fellowship of **Rs. 15000/- pm (which is likely to be revised @ Rs. 25,000/- p.m.)**. Successful candidates, on completion of Ph.D. under the scheme, stand good chance of being considered for absorption as faculty in this institute through proper Selection Committee.

A scheme also exists for the award of Research Assistantship for providing financial assistance to the students. In terms of this scheme, the student who is not found suitable for TRF but found suitable for research can be considered to Ph.D. Degree programme as research fellow with stipend/fellowship as per rule.

How to Apply

Application forms with full details are available on Institute website at www.nsit.ac.in. The complete application form along with attested photocopies of certificate/testimonials, two self addressed envelopes (size 25 X 11cm) for communication, two address slips and a Demand Draft/ Pay Order of **Rs. 1000/- (Rs. One Thousand only) non-refundable** in favour of **Director, NSIT, New Delhi 110078**, payable at Andhra Bank, NSIT Branch, Dwarka, New Delhi – 110078, should reach to the office of Assistant Registrar (**Acad.PG studies**) latest by **30.09.2011**. Please write your name, address and Telephone number at the back of the Demand Draft/Pay order. Separate application form should be submitted for each programme / Division. For any queries contact at phone no. **25099061 (Direct NO.) or Ext. 2323, 2314 through the EPABX NO 25099050**.

**Incomplete application will not be considered and treated as cancelled.
Institute will not be responsible for any postal delay.**

CLOSING DATE : 30th September, 2011

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

(Formerly, Delhi Institute Of Technology)

Azad Hind Fauj Marg, Sector –3, Dwarka

New Delhi – 110 078

Attested Pass Port Size Photograph
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APPLICATION FOR ADMISSION TO FULL TIME Ph.D PROGRAMMES

Name of Division in which admission is sought _____

Proposed Area of research _____
(from amongst those notified)

1. Name (Mr./Ms.) _____
(In block letters, as given in the qualifying degree certificate)

(IN HINDI) _____

(IN ENGLISH) _____

2. Date & Place of Birth _____

3. Nationality _____

4. Father's/Husband's Name _____

5. Mother's Name _____

6. Permanent Address _____

7. Address for Correspondence _____

e-mail address: _____

contact phone number _____

8. Do you belong to SC/ST or Physically Handicapped category ?

YES	NO
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If yes, Tick (✓) the relevant Box and
attach attested copy of relevant certificate

SC	ST	PH
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9. Academic Record (Attach attested copies of Degrees & Mark sheets)

Examination Passed	Discipline	University/ Board	School/ College	Year of Passing	Division obtained	% Marks or CGPA
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I.

II.

III.

10. Details of qualifying national level exam GATE/UGC/CSIR/ICAR, ICMR, DBT, DST, Inspire fellowship.

Year appeared _____ Percentile/Other Score (Attach attested copy) _____

In the Exam. _____

Discipline chosen in GATE/UGC/CSIR/ETC. _____

11. Awards and Scholarships received (if any) _____

12. Have you applied earlier for admission to a Ph.D. Programme at this Institute.

Yes	NO
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13. If admitted earlier, state the year of admission, Division/Centre and reasons for discontinuation: _____.

14. List of projects/publications/Inventions/Patents (Use separate sheet also, if necessary)

15. Write a paragraph on why you want to do research and how your past experience is relevant to the field.

16. Are you applying separately for the award of Fellowship/Assistantship ?

YES	NO
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17. List two references and their addresses who are familiar with your academic background:

1.

2.....

FOR OFFICE USE

(Recommendation /observations of the Admission Committee)

1. The candidate may be admitted.
2. The candidate may be admitted provisionally subject to production of the following documents latest by _____
 - a) Attested copies of the qualifying degree certificate/marks sheet showing the required % of marks/CGPA
 - b) No Objection Certificate from the employer(s) in the prescribed format
 - c) Proof of having appeared/ passed in the qualifying examination.
 - d) GATE/Equivalent National Test Certificate showing Score obtained.
 - e) Relieving certificate from Employer.
3. The candidate be not admitted.

Signature
Chairman, Admission Committee