

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

**ADMISSION TO Ph.D PROGRAMMES
Academic Session 2012-13**

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 29 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 all the Divisions/Schools. The areas of interest include, but are not restricted to, the following:-

(i) Division of Electronics & Communication Engineering (ECE):

Analog Integrated Circuits and Signal processing ; CMOS Analog circuits, Analog VLSI, Statistical Signal Processing, Electromagnetics, Gravitation, VLSI, Optical networks and Optical communication, Wireless Communication, Digital Signal Processing (DSP), Statistical Signal Processing, VLSI DSP.

(ii) Division of Computer Engineering & Information Technology (COE & IT) :

Information Retrieval, Data Mining, Soft Computing, Software Engineering, Reconfigurable Computing, Network Security, Computer Architectures, Machine Learning, Internet and Web Technologies, Software Testing, Mobile Computing, Image Processing, Database, CAD of Embedded systems, Parallel processing, Adaptive Systems, Distributed Computing, Multi-Disciplinary applications Software Engineering, Software Testing, Data Warehouse, ADHOC Networks, Network Security, Opportunistic Networks.

(iii) Division of Instrumentation and Control Engineering (ICE):

Power Electronics, Industrial Drives, Intelligent Instruments, Artificial Intelligence, Intelligent Control, Intelligent Modeling of Non-Linear Systems, Biometrics & Bioinformatics, Intelligent instrumentation, Intelligent Control of Shaker System, FPGA Applications in Instrumentation, Distillation Process, Image Processing, Biomedical Instrumentation, Electrical Drives, Power Quality, AI Based Control Teaching, Power Electronics, FACTS DSP based control of machines, renewable energy system, Process Dynamics, V Control, Intelligent Process Control, Robotics, Intelligent Control Systems, VLSI.

(iv) Division of Manufacturing Processes and Automation Engineering (MPAE):

Manufacturing, CAD/CAM, Product Design, Unconventional Machining Methods ECDM/ECM/DEM/USM etc, Super abrasive grinding Technology, Artificial Intelligence, Robotics Management, Product Design.

(V) School of Applied Sciences (SAS): Mathematics : General relativity and cosmology,

Complex Analysis, Approximation Theory and Operator Theory, Fluid Mechanics, Biomechanics.

Chemistry : Inorganic Chemistry, Organic Chemistry, Polymer Technology . **Physics:** Material Science, Boundary Layer Flow with heat transfer, Gas dynamic waves, lie group of Transformations, Fluid Dynamics, Solar Energy Materials and green buildings.

(vi) Bio-Technology: Industrial Enzymes, Bio-energy, Bio-remediation & Novel Antimicrobial agents/ anticancer agents, Computational and Structural Biology with emphasis on molecular modelling and drug design.

Eligibility Conditions

Master's degree in Engineering/Technology in the relevant discipline (**For ECE, COE, ICE, MPAAE, 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.

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 (Irrespective of with/without fellowship) which will have multiple choice questions of one hour duration. The selection of the short listed candidates after written test 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 (7 to 10 minutes on any area of his/her interest preferably research area) and Interview. Interviews will be held in Oct./Nov. 2012.

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 and will have to complete the course work as per the ordinance VI B of University of Delhi.

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. 2012) 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. 25000/- pm for 1st year and Rs. 30,000/- per month for next two years.** 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 for which a fellowship of **Rs. 18,000/- per month for first two years and Rs. 20,000/- per month after 2nd year is available.** In terms of this scheme, the student who is not found suitable for TRF but found suitable for research can be considered for admission to Ph.D. Degree programme as Research Fellow.

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 Deputy Registrar (**Acad. PG studies**) latest by **10.09.2012**. 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 : 10th September, 2012

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 FULL TIME Ph.D PROGRAMMES
(TRF/RF 2012-13)**

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