

## Motilal Nehru National Institute of Technology (MNNIT), Allahabad

### PhD Programme 2012

Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar Pradesh, has invited applications from eligible candidates for admission into PhD (Doctorate of Philosophy) programme in the following areas / disciplines, to be offered in the ensuing session 2012-13. The course is being offered in part-time as well as full-time mode. Admission will be made on the basis of candidates' performance in the written examination, followed by personal interview, to be conducted by the Institute.

#### Department / Cell / Centre and Areas of Research Offered:

- **Applied Mechanics:** Solid Mechanics, Computational Mechanics, Composite and smart structures, stability and dynamics of structures, Advanced Engineering Materials, Robotics and Mechanisms, Fluid Mechanics and machines, Multiphase Flow, Computational fluid dynamics, Biomechanics and MEMS
- **Biotechnology (under Applied Mechanics):** Molecular Biology, Microbiology, Environmental, Biotechnology, Agricultural Biotechnology, immunology and Bioprocess development.
- **Civil Engineering:** Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, GIS, Environmental Geo-technology, Remote Sensing, Water Resources Engineering
- **Computer Science & Engineering:** Data Base, Software Engineering, Mobile Computing, Parallel Computing, Computer Architecture, Computer Networking, Theoretical Computing, Computer Algorithm, Data Mining, Knowledge Based System, Real Time System, Distributed Computing
- **Electrical Engineering:** Control Systems and Mathematical Modeling, Nonlinear Systems, Model Reduction, Fuzzy Logic, Neural Networks, AI in Power System, Wireless Sensor Networks, Power Electronics, Transmission Systems & FACTs, Distribution System and Custom Power Devices, Distributed Generation & Control, Power Quality, Modern Electrical Drives, Instrumentation Systems, Biomedical Instrumentation, Virtual Instrumentation, Power System Protection
- **Electronics & Communication Engineering:** Data Communication and Networking, Optical Communication, Digital Signal Processing, Image Processing, Mobile and ATM Network, Analog and Digital Circuits
- **Mechanical Engineering:** Thermal Science (Heat Transfer, Energy Conversion, Refrigeration and Air Conditioning), Turbo Machines, CAD/CAM/FMS, Fatigue and Fracture Mechanics, Unconventional Manufacturing Processes, Metal Cutting, Metal Forming, Noise and Vibrations, Industrial Engineering, Rapid Prototyping and Reverse Engineering, Knowledge Management
- **Chemical Engineering (Under Mech Deptt):** Separation Processes, Heat Transfer, Mass Transfer, Chemical Reaction Engineering, Modeling and Simulation, CFD, Energy Conversion
- **Centre of Energy Studies (under Mechanical Engineering Department):** Non-Conventional Energy Resources Management, Thermal System Design
- **Chemistry:** Organo-metallic material chemistry, Polymers, Environmental Chemistry, Nano-Technology, Nano-Chemistry, Bio-Inorganic, Photo-Chemistry, Drug delivery, Co-ordination Chemistry
- **Humanities and Social Sciences: Commonwealth Literature, Psychology:** Organisational Behavior, Social Psychology, Industrial Psychology, Entrepreneurship, British Literature, American Literature, English Language Speaking and Human Resource Management, Rural Economics, Allied Social Sciences, Accounting and Financial Management
- **Physics:** Condensed Matter Physics/ Solid State Physics, Solid State Gas Sensors, Carrier Transport in Thin Films, Interface States Studies in Semiconductor Devices, Characterization of Materials, Nonlinear Dynamics, Spectroscopy of Nano-Materials and CNTs, Quantum Chemistry & Bio-Physics, Magnetic Materials, Solar Photovoltaics
- **School of Management Studies:** Marketing Human Resource, Finance, Systems Management, Strategic Management, Operations Management, International Business
- **GIS Cell:** Geoinformatics (Core and Applications)

**Date of Exam**

The written exam and interview, will be held from June 21-22, 2012.

**Test Centers**

The written exam and interview will be held at various departments of MNNIT, for complete details, candidates are advised to visit the Institute's official website: <http://mnnit.ac.in/>.

**Fee**

See the prospectus

**How to Apply**

Interested candidates are required to download the prescribed application form from the Institute's official website: <http://mnnit.ac.in/>. The direct link to download the same is: [http://mnnit.ac.in/images/stories/admissions/2012/application\\_form\\_Ph.pdf](http://mnnit.ac.in/images/stories/admissions/2012/application_form_Ph.pdf). The application fee is Rs 1000 which is to be paid in the form of DD drawn in favor of Director, MNNIT payable at Allahabad. The duly filled in and completed application form along with requisite documents (list mentioned on the website) should be sent to the Admission Cell, Office of the Dean (Academic), Motilal Nehru National Institute of Technology Allahabad, Allahabad - 211004, latest by May 25, 2012 up to 5.30 pm.

**Date of Issue of Application Form**

April 17, 2012

**Last Date of Submitting Application Form**

Last date of receipt of the printed and signed application form - May 25, 2012 (5.30 pm)