Department of Civil Engineering Motilal Nehru National Institute of Technology Allahabad

Announces

One Week Course On

Numerical and Optimization Techniques (NOT-2017)



Sept 22 -26, 2017



Coordinators

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BACKGROUND

Computational techniques have become an essential part to solve the engineering problems. Numerical and optimization techniques are important computational tools for conducting research and development in engineering sciences. The proposed short term course presents traditional as well as advanced numerical and optimization methods. It also highlights successful applications in various real areas. The course modules are framed for the participants with or without a strong background in the field. The prime objective of the short term course is to familiarize the participants with basic as well as state of the art of theory and applications of numerical and optimization techniques.

Course Content

- Numerical techniques: General numerical methods, FDM (Finite difference), FEM (Finite element)
- Optimization techniques: Constrained and unconstrained optimization with linear and nonlinear programming methods, multiobjective and Goal Programming
- Soft-computing: ANN, Fuzzy and GA, NSGA, Hybrid Intelligent methods
- Fuzzy optimization: Multi-objective and goal programming
- Labs: Labs on Numerical, optimization and soft computing techniques based on MATLAB and LINGO programmes;
- Case studies and demonstrations of applications.

About Civil Engineering Department

The Department of Civil Engineering was established in 1961. The initial intake of the students was 30. The first head of the Department of Civil Engineering was Mr. S.C. Jain. The Department began teaching with 5 faculty members. For first 2 years the classes and laboratories were held in the premises of the Polytechnic Allahabad. In the third year of its establishment, the main building of the Institute came up and the Department of Civil Engineering was located in the main building. In the beginning, the Department had only five laboratories viz. Survey Laboratory, Soil Mechanics and Foundation Engineering Laboratory, Concrete and Structure Laboratory, Transportation Engineering Laboratory and Public Health Engineering Laboratory.

In subsequent years, the intake of Civil Engineering students was increased to 70. The M.Tech. Programme in the department begin in 1970 on a regular basis in the streams of (1) Structural Engineering and (2) Soil Mechanics and Foundation Engineering. At present four M.Tech. programmes are running in the Department viz. (1) Structural Engineering, (2) Geotechnical Engineering, (3) Geo-Environmental Engineering and (4) Environmental Engineering.

During its journey of development, many M.Tech. programmes were added and several new laboratories were developed. The department was also recognized as QIP centre for M.Tech. and Ph.D.

The present sanctioned faculty strength is 36. The present sanctioned intake of B.Tech. is 100 and M.Tech. students is 100. Also the present Ph.D. (Full Time Regular) intake of the students is 3 per year.

REGISTRATION FEES About MNNIT Allahabad REGISTRATION FORM Motilal Nehru National Institute of Technology (NOT-2017) Allahabad, Allahabad (MNNIT) is an Institute with Professional: 6000/total commitment to quality and excellence in Faculty : 5000/-Name (block letter): academic pursuits. It was established as one of the : 2000/- (Research Scholar) Students Designation: seventeen Regional Engineering Colleges of India in : 1000/- (UG/PG/M.Tech) Organization: the year 1961 as a joint enterprise of Government of Address: India and Government of Uttar Pradesh, and was an The registration fee of selected participant must be associated college of University of Allahabad, which paid by DD in favour of "NOT 2017", MNNIT Allahabad, is the third oldest university in India. Registration fee may be transferred electronically With over 45 years of experience and achievements through NEFT/RTGS with intimation to coordinator(s). in the field of technical education, having traversed a NEFT, A/C Name: NOT 2017, A/C Number: long way, on June 26, 2002 MNREC was E-mail: transformed into National Institute of Technology and Phone: (O) (M)..... 718400301000238, Vijaya Bank, Branch: MNNIT Deemed University fully funded by Government of Allahabad, IFSC: VIJB0007184. Scanned copy of the Fax: India. With the enactment of National Institutes of filled form may be emailed to coordinator(s) in Technology Act-2007(29 to 2007), the Institute has advance. Registration fee includes Tea, Lunch and Registration Fee: been granted the status of institution of national Registration Kit. importance w.e.f. 15.08.2007. Amount: DD No.: The Institute had begun with offering Bachelor **Important Dates** Degree Programmes in Civil, Electrical and Bank:Date: Last Date of receipt of Application: 8th Sept. 2017 Mechanical Engineering. It was the first in the country Notification for selection: 11th Sept. 2017 to start an undergraduate programme in Computer Any Accompanying Person: YES/NO Science & Engineering in 1976-77. Subsequently, in **PATRON** the year 1982-83 undergraduate programmes in Accommodation Required: YES/NO Prof. (Dr.) Rajeev Tripathy Electronics Engineering and Production & Industrial If yes, please write to the convener for details. Director, Motilal Nehru National Institute of Engineering were started. The first Master's Technology Allahabad Programme of the Institute was introduced by the Mechanical Engineering Department in the year Signature (Applicant) Date: CHAIRMAN 1966. In all other Engineering Departments, Master's Prof. (Dr.) R. D. Gupta Programmes were introduced in the 1970-71. To add Head, Civil Engg Dept., MNNIT Allahabad a new dimension to itself the Institute established Signature (Head of the Institution/Department) School of Management studies in 1996, which offers (Supervisor/concerned teacher for students) a two year / four semester post graduate degree programme in Management (MBA). **COORDINATORS** The Institute was selected as a lead institution in the Please send this form to: Design theme under Indo-UK REC Project (1994-99). Dr. R. M. Singh Dr. R. M. Singh Under this scheme a Design Centre was established. E-mail: rajm.mnnit@gmail.com Coordinator, NOT-2017 The Institute has been selected as a Lead Institution Department of Civil Engineering under World Bank funded Government of India Dr. N. R. Rawal Motilal Nehru National Institute of Technology Project on Technical Education Quality Improvement E-mail: nrrawal@mnnit.ac.in Programme (TEQIP) (2002-2007). Two state level Allahabad -211004, India institutions are networked with MNNIT under the Phone: + 91-9839506133, 9336146896,9435309635 Dr. Kumar Pallav project. E-mail:not2017mnnita@gmail.com Email: kpallav@mnnit.ac.in