

About MNIT

Malaviya National Institute of Technology (MNIT), Jaipur is one of the premier NITs designated as an Institute of National Importance by MHRD, located in a central location of Jaipur city and spread over 350 acres of lush green area. At present, the Institute offers 09 undergraduate and 24 post graduate and research programmes in all relevant disciplines (B.Tech., M.Tech., MBA, M.Sc. & Ph.D.) and caters to about 5000 students in almost all leading fields of engineering, technology, management and sciences. The Institute is actively engaged in research, consultancy and developmental activities and collaborates with leading Industries and Universities. The Institute has qualified experienced faculties and labs with state of the art equipment/tools.

About Electrical Engineering Department

The Electrical Engineering Department is one of the oldest departments of the institute, which was established in the year 1963. At present the department offers both undergraduate and postgraduate courses in Electrical Engineering. The Department has well equipped laboratories such as Electrical Machines laboratory, Power Systems laboratory, Control Systems laboratory, Electrical Measurements & Instrumentation laboratory, and Power Electronics & Drives laboratory. The Department has undertaken a number of research projects/schemes with the financial assistance from AICTE, DST and MHRD. The department is regularly producing research publications in international and national journals and conferences.

Patron

Prof. I.K. Bhat
Director, MNIT Jaipur

Head of the Department

Prof. Manoj Fozdar

Course Coordinators

Dr. Rajesh Kumar
Dr. Kusum Verma

Organizing Committee

Faculty Members
Department of EE

Contact Persons

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MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Short Term Course
on

Advanced Optimization Techniques

(18-22 May 2015)

www.mnit.ac.in



Organized by

DEPARTMENT OF ELECTRICAL
ENGINEERING

MALAVIYA NATIONAL INSTITUTE
OF TECHNOLOGY
J.L.N. MARG, JAIPUR-302017
RAJASTHAN- INDIA

About the Course

The main objective of this short-term course is to provide a forum in which the participants obtain information about recent advances in optimization techniques. The course offers a common discussion ground for the theoretical and practical aspects of modern optimization techniques. The proposed course presents all traditional and advanced methods of optimization of relevance to applications in engineering sciences. It also highlights successful applications of optimization in various areas and contains sessions for the participants to introduce them to a number of modern optimization methodologies and their application/case studies from a wide variety of real world interdisciplinary engineering problems.

Topics to be Covered

- Constrained and unconstrained deterministic linear and non-linear programming methods.
- Genetic Algorithm (GA), Swarm Intelligence, Ant Colony Optimization (ACO), Directed Bee Colony (DBC), Harmony Search (HS), Teaching-Learning-Based Optimization (TLBO) algorithm, Differential Evolution (DE), Biogeography-Based Optimization (BBO), Game Theory, Portfolio Optimization, Markov Models, Multi Agent System (MAS) etc.
- Neural network based and fuzzy based optimization.
- Guidelines on publishing research papers.
- Hands-on training using MATLAB and other Software Tools Python, Java etc.
- Scientific Document Processing Tools: LaTeX, Gnuplot, Xfig, Beamer package etc.

Important Dates

Last date for receiving applications: 10 May 2015
Notification of acceptance: 12 May 2015

Registration

Faculty from Academic Institutions: Rs. 3000/-
Students/Research Scholars: Rs.1500/-
Delegates from Industries/R&D
Organizations: Rs.4500/-

Target Audience

Faculty members from academic institutes, professionals from Industries and research organizations, public sector undertaking officials, consultants, postgraduates & research scholars.

General Information

The participant will not be paid any TA/DA. Accommodation and travelling expenses are to be borne by the participants or their respective institutes. Limited accommodation on actual may be available at MNIT Guest House/ Hostels. A request for this need is to be made well in advance. The organizers will provide the working lunch. Registration fee can be sent in the form of Demand Draft (D.D. issued by any nationalized bank in favour of The Registrar, MNIT Jaipur payable at Jaipur).

Online registration should be made at:

<http://goo.gl/forms/n05vISOigf>

Scanned copy of completed Registration form and DD should also be sent by e-mail to: kverma.ee@mnit.ac.in

REGISTRATION FORM

Short Term Course

On

Advanced Optimization Techniques

(18-22 May 2015)

Name.....

Designation.....

Organization.....

Academic Qualification.....

Area/Specialization.....

Mailing Address.....

Tel. No. (with STD code).....

E-mail.....

Accommodation Required: Yes/No

DD No.....Date.....

Bank Name.....

Amount Rs.....

Date:

Signature of Applicant