REGISTRATION FORM

National Level Self Financed
Short Term Training Programme on

Optimization techniques and their implementation using MATLAB (OTATIUM)

11-11-2016 to 15-11-2016

Organized by
Department of Electrical Engineering
National Institute of Technology, Raipur, C.G.

Full Name (Block Letter): ……
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Name of College/Institution/Organization:
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Qualification: ……
Designation: ……..……
Address:
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Pin code:
Phone No.:
Mobile No.:
E-mail:
Do you need accommodation: (Yes/ No):

I have enclosed the registration fee of Rs……by D.D. No …… Dated……in favour of **"Director, NIT, Raipur"** payable at **SBI, GCET Branch, Raipur.**
Place:
Date:

Signature of the participant

Duly filled registration form must reach to Department of Electrical Engineering, NIT-Raipur before last date of receipt of registration form by post/by hand along with registration fee (D.D).

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Director, NIT Raipur

Co-Patron
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Course Coordinators
Dr. S. Pattnaik, EED, NIT Raipur
Dr. V. P. Singh, EED, NIT Raipur

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National Level Self Financed
Short Term Training Programme
(STTP)

on

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Course Coordinators

Dr. S. Pattnaik
Dr. V. P. Singh

Organized by
Department of Electrical Engineering,
National Institute of Technology,
Raipur – 492010, Chhattisgarh.

About Institute

National Institute of Technology, Raipur (Formerly Government Engineering College Raipur), situated in the capital of a newly incepted state of Chhattisgarh, has proven to be avant-grade in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. The institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi, Hyderabad, Kolkata, Bhopal, Ahmedabad, Bangalore, Chennai and Chandigarh by regular flights and railway routes.

About Department

The **Department of Electrical Engineering** came into existence in 1958. The department aims at imparting the state of the art knowledge and skills to the students. The department provides an outstanding research environment and offers academic program leading to the award of B.Tech, M.Tech. and Ph.D. degree.

The department is the study, research and work place of 600 people from 28 states across India. About 15 faculty in this department teach mainly in areas like electrical engineering, information science & technology, computer science & engineering, electronics and telecommunication engineering, and mathematics, and carry out research in their respective fields.

Introduction

The short term training program (STTP) is aimed at imparting the knowledge of various optimization techniques using MATLAB environment. For this, program will also cover MATLAB software in detail. Expert lectures will be delivered by faculty from academia. This program will be beneficial to UG/PG students, young researchers, research scholars, faculty who intend to practice/begin research and employ optimization in the field of electrical engineering, mechanical engineering, electronics engineering, computer science engineering, information technology, etc. This short term training program is proposed to give a thorough exposure of basics of various optimization techniques and their implementation. Distinguishing features of this program include training sessions separately for optimization techniques and MATLAB.

Objective

The objective of this programme is to train the students, research scholars, and faculty of various fields. The programme aims to provide the basics of MATLAB as well as different optimization techniques. The program will also provide a platform for interaction and exchange of ideas.

Eligibility

Participation in this short term training programme (STTP) is open to the under-graduate students, post- graduate students, faculty members, engineers, researchers, and other executives working on diverse fields in electronics engineering, computer engineering, electrical engineering, instrumentation engineering, biomedical engineering, biotechnology, civil engineering, mechanical engineering, etc.

Selection

Since the number of seats is limited to 40, the selection will be made on first cum first basis. However, the preference will be given to the outside participants. Intimation regarding selection will be sent to the candidates by email as per the schedule. Certificates will be issued to the participants only after attending the complete course. No TA/DA will be paid to the participants.

Accommodation may be provided on availability on payment basis at institute guest house and relevant hostels of NIT, Raipur provided request for the same is made in the registration form.

Course Contents

The contents of the STTP are as follows:

Introduction to MATLAB: Handling linear algebra using MATLAB, handling graphics using MATLAB, Handling symbolic math using MATLAB, etc.

Introduction of tool boxes of MATLAB: Optimization toolbox, symbolic math toolbox, ordinary differential math tool, control system toolbox, etc.

Direct search methods of optimization: Box's method, pattern search method, Luus-Jaakola optimization technique, etc.

Swarm based methods of optimization: Particle swarm optimization, teacher-learner-based-optimization, etc.

Evolutionary computation based methods of optimization: Genetic algorithm, differential evolution, etc.

Applications of optimization techniques to various engineering applications.

Registration Fee

UG Students	**Rs. 1000**
PG Students	**Rs. 2000**
Research Scholars	**Rs. 3000**
Faculty/Industry Delegates	**Rs. 8000**
Internal candidate	**Rs. 2000**

Important Dates

Last date of receipt of application: 10.11.2016,
Notification of selection (by Email): 10.11.2016.

Venue

E-Class Room, Department of Information Technology, and Department of Electrical Engineering,
NIT Raipur (CG) – 492010, INDIA.

Contacts and Correspondence

Contact following for any further query. Mail/post your filled in registration form to:

Dr. S. Pattnaik/Dr. V. P. Singh,
Assistant Professor,
Department of Electrical Engineering,
National Institute of Technology,
GE Road, Raipur-492010, India.
Contact No.: +91-8878208323.
Email: vpsingh.ele@nitrr.ac.in.

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