Speakers

- Dr. R. N. Patel, NIT Raipur
- Dr. S. Ghosh, NIT Raipur
- Dr. Aakanksha Sharaff, NIT Raipur
- Dr. Lalit Kumar, NIT Raipur
- Dr. Abhishek Sharma, IIIT Raipur
- Dr. Atul Dwivedi, BIET Jhansi
- Dr. Rahul Chaurasiya, MNIT Jaipur
- Dr. Siddhartha Panda, VSSUT Burla
- Dr. Pradyumn Chaturvedi, VNIT Nagpur

Course Highlights

- Systematic development of practical programming skills
- Lectures by eminent experts & alumni of IITs/ NITs
- Useful for beginners as well as advanced learners
- Covers a wide range from introduction to MATLAB to Applications of optimization in practical problems, research & analysis
- Covers advanced features of MATLAB, Simulink and its toolboxes
- Research Applications in Modeling and Optimization Techniques

Chief Patron

Dr. A. M. Rawani, Director, NIT Raipur

Patron

Dr. (Mrs.) Shubhrata Gupta, Dean (R&C), NIT Raipur

Convener

Dr. P. Singh,

HoD, Department of Computer Science and Engineering,

NIT Raipur

Coordinators

Dr. Aakanksha Sharaff

Assistant Professor, NIT Raipur

Dr. R. N. Patel

Associate Professor, NIT Raipur

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National Workshop on

Programming, Simulation and Optimization using MATLAB
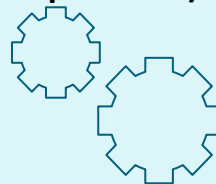
(August 22nd - 26th, 2019)

Organized by

Department of Computer Science and Engineering

National Institute of Technology Raipur-492 010, India
(An Institute of National Importance)

About the Institute

National Institute of Technology, Raipur situated in the capital of Chhattisgarh, has proven to be a Pioneer in the field of science and technology over the decades. The institute laid its foundation stone with the hands of President Hon'ble Dr. Rajendra Prasad on 14th September, 1956, and the inauguration of the Institute building was done by 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 and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railway station and 18 km from airport on NH-6, the Great Eastern Road.

About the Department

The Department of Computer Science and Engineering came into existence in year 2000. CS&E department is the study, research and work place for approximately 600 students from the 28 states across India. The department provides an outstanding research environment and offers academic program leading to the award of B. Tech, and Ph.D. degrees.

Workshop Venue

Department of Computer Science and Engineering, National Institute of Technology, G.E. Road, Raipur–492010 (C.G.), India

Course Objectives

This program is intended as an aid to Engineers and Scientists with no prior programming expertise. It will focus on the systematic development of practical programming skills through MATLAB language constructs. Beginning with Matrix Operations, programming in MATLAB, graphics & plotting and writing a MATLAB function, special MATLAB functions and their applications will also be discussed. The workshop will cover Simulink Modeling and GUI development for a variety of applications. It will be as much useful to all the Undergraduate/Masters students of various disciplines as it will be to research scholars and faculty, who intend to use MATLAB as a tool for teaching and research.

Topics to be Covered

- **Introduction to MATLAB**
- **MATLAB Functions and M-File Programing**
- **Modelling with Simulink and Important Toolboxes**
- **Designing Graphical User Interface (GUI) in MATLAB**
- **Optimization Techniques using MATLAB: Pattern Search, Genetic Algorithm, Particle Swarm Optimization, Simulated Annealing, Firefly Algorithms etc.**
- **Various Optimization Functions and Toolboxes**
- **Selected Case Studies in Specified Domains**

Who Should Attend ?

- ➢ **U.G./ P.G. /Ph.D. students of All Streams**
- ➢ **Faculty members/ Researchers**
- ➢ **Industry Employees**

Registration

Applications in prescribed format with registration fee in the form of Demand Draft drawn in favour of "Director, NIT Raipur" payable at Raipur, must reach the coordinator on or before **20th August, 2019**. Registration fee includes registration kit, lunch, snacks and hand outs. Certificates will be issued to the participants only after attending the complete course.

Important dates:
Last date of Registration: **22nd August, 2019**
Event Dates: **22nd – 26th August , 2019**

Registration Fee

Participant Category	Amount (in Rs)
UG Students	850/-
PG / Ph.D. Students	1200/-
Internal Faculty of NITRR	1500/-
Faculty/Industry Delegates	2000/-

Provisional Registration

Online Registration Link for this Workshop:

Click here

or send the scanned copy of Registration Form and DD at email : **asharaff.cs@nitrr.ac.in**
Contact No.: +91-8817813946

REGISTRATION FORM

One Week National Workshop
on
"Programming, Simulation and Optimization using MATLAB"
22nd – 26th August, 2019

Organized by
Department of Computer Science and Engineering
National Institute of Technology, Raipur, C.G.

Full Name (Block Letter): ………………………………………………………………

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:

Signature of the Participant

Date:

Duly filled registration form must reach to Department of Computer Science and Engineering, NIT-Raipur, before last date of receipt of registration form by post/by hand along with registration fee (DD) or for online registration Click here