

**MATLAB: Applications in Engineering  
(SDP under TEQIP-II)**

Venue: RCC Institute of Information Technology  
July 7 - 11, 2014

**REGISTRATION FORM**

Name: \_\_\_\_\_

Institute: \_\_\_\_\_

Institutional Address\*: \_\_\_\_\_

Designation\*: \_\_\_\_\_

Qualification: \_\_\_\_\_

Specialization\*: \_\_\_\_\_

Research Interest\*: \_\_\_\_\_

Mobile/Landline\*: \_\_\_\_\_

Accommodation: (Required/ Not Required)

E-mail\*: \_\_\_\_\_

Applicant's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The above applicant will be permitted to participate

Signature of Principal/ Head of the Department with Seal

\* Mandatory

**ADVISORY COMMITTEE**

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Chairman, RCCIT and Former VC, BESU

**Prof. (Dr.) Partha Bose**, Principal, RCCIT

**Prof. (Dr.) Pramatha Nath Basu**, IT, RCCIT

**Dr. Siddhartha Bhattacharyya**,  
Head IT & Dean R & D, RCCIT

**Dr. Dipankar Majumdar**, IT, RCCIT

**CONVENER**

**Mr. Pankaj Pal** Assistant Professor, Dept. of IT

**COORDINATORS**

**Mr. Anirban Mukherjee**, Assistant Professor, IT

**ORGANIZING MEMBERS**

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**Mr. Abhijit Das**, Assistant Professor, IT

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**Mr. Arjit Majumder**, Asst. Programmer, IT

**Ms. Sudipta Bose Nandi**, Asst. Programmer, IT

**Mr. Ripon Mondal**, Technical Assistant, IT

**Ms. Moumita Chatterjee**, Junior Assistant, IT

**One week Staff Development  
Program**

Under TEQIP - II on

**MATLAB : Applications in Engineering**

July 07 - 11, 2014

Organized by

Department of Information Technology

**RCC INSTITUTE OF  
INFORMATION TECHNOLOGY**

Unit of an Autonomous Society of the Department of  
Higher Education, Government of West Bengal



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## RCC Institute of Information Technology

It is a World Bank funded (TEQIP - II) Government aided self financing Engineering College under an Autonomous Society of Department of Higher Education, Govt. of West Bengal. It was setup in 1999 with an active support and collaboration of Ministry of Information Technology, Government of India and Department of Higher Education, Govt. of West Bengal. The Institute offers five B. Tech. and three M. Tech. programs along with MCA.

### Department of Information Technology

#### Mission

To create a global ambience that fosters excellence in teaching-learning, research and development-aided by state-of-the-art infrastructure, a dedicated pool of faculty and staff members and an inspired group of alumni that would help the students to excel in IT and ITES.

#### Vision

To empower students to become global leaders in the IT based sector that would cater the needs of the local and global community.

#### Program Educational Objective (PEO) of IT Department

- To enable graduates to contribute with excellence in IT-Enabled and Allied Services
- To imbibe into the graduates ability to apply Engineering principles creatively in solving problems of the community & society
- To infuse into the students a spirit of collaboration, leadership and teamwork
- To develop their communication and managerial skills to handle challenges in projects and works in multidisciplinary teams by understanding societal and professional responsibility and initiate lifelong learning opportunities
- To undertake research, design and developmental projects in the frontier areas of technology
- To prosper in a multinational; multilingual and multicultural atmosphere

## Course Objective (CO) of SDP

This Staff Development Program (SDP) is meant to setup a forum for deliberation of the basic concepts in MATLAB and its applications in Engineering. Eminent speakers from academia will share some of their own working experiences those will mark new avenues in this domain. This SDP will span over 5 days and comprises 5 technical and 5 hands on sessions. Major objectives of this course are :

- Impart knowledge of MATLAB programming and increase familiarity with the interface
- Introduction to basics of image processing tool box and impose knowledge of basic operations
- Workability in fuzzy toolbox
- Implementation of control system constructs using MATLAB
- Simulation of circuits using MATLAB

#### MATLAB : Applications in Engineering

MATLAB (matrix laboratory) is a multi-paradigm numerical computing environment and fourth-generation programming language. Developed by MathWorks, MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages, including C, C++, Java, and FORTRAN.

Although MATLAB is intended primarily for numerical computing, an optional toolbox uses the MuPAD symbolic engine, allowing access to symbolic computing capabilities. An additional package, Simulink, adds graphical multi-domain simulation and Model-Based Design for dynamic and embedded systems.

In 2004, MATLAB had around one million users across industry and academia. MATLAB users come from various backgrounds of engineering, science, and economics. MATLAB is widely used in academic and research institutions as well as industrial enterprises.

#### Speaker Details

- Prof. Siddhartha Bhattacharyya**, RCCIIT, Kolkata  
**Prof. Dipankar Majumdar**, RCCIIT, Kolkata  
**Prof. Hrishikesh Bhaumik**, RCCIIT, Kolkata  
**Prof. Pankaj Pal**, RCCIIT, Kolkata

## Tentative Itinerary (07 to 11 July 2014) :

Date	Agenda
07.07.14	Introduction to MATLAB for Engineering Application
08.07.14	Pattern Recognition and Image Processing
09.07.14	Fuzzy toolbox
10.07.14	Control System toolbox
11.07.14	Circuit Theory toolbox

- Registration on July 7, 2014 (10:00 -10:30)
- Inauguration on July 7, 2014 (10:30 -10:45)
- Daily Lunch (13:00 -14:00)

#### Registration Guidelines

The SDP is mainly aimed for Technical Assistants/Laboratory Technicians/ Teaching Assistants of all Universities and Engineering colleges across India. However registration is limited and will be done on first come priority basis. Arrangement for accommodation can be done on prior request at own cost.

- This SDP has to be attended on all five days. Attendances at every session are mandatory to qualify for the Certificates. Certificates will be issued on the concluding day of the SDP.
- **Registration fees Rs. 1000.00**
  - **NO accommodation will be provided**
  - **NO Spot Registration will be entertained**

Participants can mail a scanned copy of their duly filled-in Registration form to the following email id :

**fddp.doit@gmail.com**

Original form must have to be submitted by 07.07.2014.