

# NATIONAL WORKSHOP ON NUMERICAL METHODS USING SCILAB

(APRIL 8-9, 2016)

Organized by

## Department of Mathematics



### VENUE:

**Jaypee Institute of Information Technology**  
Sector 128,  
Noida 201304 – U.P.  
Tel: 0120-4195800  
Website: [www.jiit.ac.in](http://www.jiit.ac.in)

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Hon'ble Shri Manoj Gaur ji

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Vice Chancellor, JIIT
- Prof. H.O. Gupta  
Director JIIT 128

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(HOD Mathematics)

**Convener(s):** Dr. Dinesh C. S. Bisht  
Dr. Akhilesh Kr Singh

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## Overview

Numerical Method is well established as one of the most dynamic and important areas of research. It has become an essential tool in the development of advances in science and technology. **Scilab** is an open source, cross-platform numerical computational package and a high-level, numerically oriented programming language. Scilab is one of several open source alternatives to MATLAB.

The workshop aims to provide a broad overview of basic concepts, operational algorithms and recent theories related to Numerical Methods and Scilab. The ultimate objective is to promote awareness about recent trends in these areas among researchers and teachers from universities and colleges in the country.

## Outline of the Workshop

- Overview of Scilab.
- Plotting graphs
- Use of Scilab in solving non-linear, simultaneous equations.
- Solution of algebraic and transcendental equations
- Solutions ODE and PDE using Scilab
- Numerical integration using Scilab
- Algorithm development in Scilab

## Registration Fee

Industry personnel	Rs. 2500
Academics	Rs. 1500
Research Scholars/Students	Rs. 500

Participants can pay the fees either by demand draft or by cash (at the time of registration). Demand draft should be in favor of "Jaypee Institute of Information Technology", payable at NOIDA.

## About the University

Jaypee Institute of Information Technology (JIIT), Noida was established in the year 2001 and has been declared as a “Deemed to be University” under Section 3 of UGC Act 1956. The undergraduate programs of the university have been accredited by the National Board of Accreditation of AICTE. JIIT’s state-of-the-art, environmentally conditioned campus comprises smart buildings with Wi-Fi connectivity covering the academic block, business school cum research block, faculty residences, Student Hostels and Annapurna. Well equipped modern laboratories and an intellectually stocked Learning Resource Centre with over 43750 books, 1.7 lacs e-Resources and resources provide a pleasant and stimulating ambience. JIIT has been constantly ranked amongst the top engineering college in Delhi NCR. Recently it has been ranked among top Engineering Colleges in India by Edu Rand 2014 Engineering College Rankings.

## Department of Mathematics

Mathematics plays a key role in the development of modern sciences, engineering, management and many other important areas of activities. With this aim in mind the Department of Mathematics was created from the very inception of the institute. Besides catering to the basic needs of the various B. Tech. / M. Tech. programs of the Institute, it had a strong fervor towards research and development from the very beginning and efforts are being made for the convergence of Mathematics with other disciplines by introducing courses of interdisciplinary nature such as Wavelets, Fractals and Chaos, Finite Element Methods etc. The Department has a good blend of pure and applied Mathematics which provides a vibrant research atmosphere. We offer M. Tech. program in Applied and Computational Mathematics. At present twenty research scholars are working for a Ph. D. degree in various areas of specialization.

## Who can participate

The program is open to all Research Scholars/Faculty Members/ Scientists/ Engineers working in Educational Institutes/ Industries/ R&D organizations.

## Important Dates

Last date for Submission of Application Form :25<sup>th</sup> March, 2016

Display of List of Selected Participants :1<sup>st</sup> April, 2016

## How to Apply

The interested persons may submit the dully filled application form to:

Dr. Dinesh C. S. Bisht / Dr. Akhilesh Kumar Singh  
Department of Mathematics  
Jaypee Institute of Information Technology  
Sector -128, Noida, 201304, U.P.  
Contact no:0120-4195896, 4195932  
It can also be emailed at [scilabjiit@gmail.com](mailto:scilabjiit@gmail.com).

## Accommodation and support

All the participants would be provided tea/lunch on each day of the workshop. Limited paid accommodation may be available on request on first come first served basis.

## How to reach

**Metro:** The station closest to the campus is Botanical Garden. Shared autos and reserved autos are available there. You have to hire one for JIIT, Sector-128.

**Railway:** The New Delhi Railway Station and the Old Delhi railway station connect Noida to the Indian railway network.



## APPLICATION FORM NATIONAL WORKSHOP

### ON NUMERICAL METHODS WITH SCILAB (APRIL 8-9, 2016)

Name (In capital letters).....

Designation.....

Affiliation / Institution.....

Specialization.....

Correspondence Address.....

E-mail .....

Mobile No.....:

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

Accommodation Required: Yes/No

Date and time of arrival:

Date and time of departure:

Date

Signature