

## About the Organizing Institute

Haldia Institute of Technology started its journey in the year 1996 as the first self-financing and Govt. Aided Degree Engineering Institute in the state of West Bengal, initially with three B.Tech. (UG) courses, viz. Chemical Engineering, Computer Science & Engineering and Instrumentation Engineering with 30 intake each. Presently, the Institute is offering 12 UG courses and 5 PG courses in addition to MBA & MCA. The management of Haldia Institute of Technology (HIT) wishes to establish the Institute as a top class centre of technical education, engineering research and development.

### How to reach

By Road

From Kolkata (NSCBI) Airport: 150 kms(approx.)

From Southan/Central Kolkata: 130 kms(approx.)

By Train & Road

1. Howrah to Mechada station: (EMU Local) available every 10-15 mts., both ways. (1hr.10 mins. approx.)

2. Mechada station to Haldia (by Road) 56 kms (approx.)

By Train

Howrah to Haldia (EMU): 6:10, 18:10.

Haldia to Howrah (EMU): 6:10, 17:25.

### Registration Details

Faculty members from Institutes affiliated to various Universities and recognized by AICTE across the country are encouraged to participate, with a nominal registration amount of Rs. 200/- in the form of a demand draft (refundable) in favor of "Haldia Institute of Technology", payable at Haldia. The registrations should reach us on or before 15 December, 2010.

Registration includes refreshments and lunch.

Participants are required to:

i) post the duly filled up registration form

(available with this brochure) along with the DD at the address mentioned in contact information.

**Participants are encouraged to get their own Laptops so that they can get Scilab installed on them.**

### About Accommodation and Travel

Limited on-campus accommodation is available at HIT, on a first-come-first-serve-basis.

Travel by 3-tier AC and partial rental expenses will be reimbursed to outstation participants according to the government-project rules.

### Important Dates

- |  |            |
|--|------------|
| 1. Registrations open                          | 29/11/2010 |
| 2. Last date for registration                  | 15/12/2010 |
| 3. Informing about acceptance of participation | 22/12/2010 |

### Contact Information

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## National Workshop on Scilab

### Jointly Organized by

School of Applied Sciences & Department of Information  
Technology, Haldia Institute of Technology  
and FOSSEE-Project IIT Bombay



**27<sup>th</sup> – 29<sup>th</sup>, December, 2010**

### Venue

**CCF Lab**

**Haldia Institute of Technology**

ICARE Complex, HIT Campus,  
Haldia,  
Purba Medinipur – 721657 (W.B)

Contact No.: (03224) – 252900 (0) Extn: 315

Fax No.: (03224) – 253062

Web Site: [www.hithaldia.in](http://www.hithaldia.in)

## The FOSSEE Project

The National Mission on Education through Information and Communication Technology (NMEICT) was launched in India by the Ministry of Human Resource Development (MHRD), Government of India, with the objective of enabling the students and faculty of Science and Engineering colleges/ institutes/ universities across India to use open source software tools for all their computational needs, thereby improving the quality of instruction and learning.

The FOSSEE (**Free and Open Source Software for Science and Engineering Education**) project is funded by the MHRD and is based at the Indian Institute of Technology Bombay (IITB), Mumbai. Scilab is a major component of this project.

## About Scilab

Scilab is a cross-platform, free (free of cost and free to distribute and modify) and open source numerical computational package and an easy-to-use interpreted, high-level matrix based programming language with a versatile inbuilt mathematical library.

### Scilab can be used for:

Graphing and Data Visualizations, Control, Signal Processing, Statistical Analysis, Image Processing, Fluid Dynamics, Linear Algebra, Numerical optimization, Modeling and Stimulation of Dynamical Systems and a variety of other purposes in engineering, mathematics and the sciences.

Its capabilities can be extended through the use of readily available or custom made toolboxes where the extensions can be written in ubiquitous lower level languages like Fortran and C.

**Scicos/Xcos** is a graphical dynamical system modeller and simulator. In many respects, it is similar to proprietary packages like Simulink, LabVIEW and

Dymola. With Scicos/Xcos the user can create block diagrams to model and simulate the dynamics of sophisticated dynamical systems and compile such models into executable code. It is a perfect replacement of Matlab for most purposes and is mentioned in the syllabi of various Universities.

## Objective of the Workshop

The objective of this workshop is to enable participants to use Scilab, to provide a hands-on experience on Scilab, and to teach Scilab at various levels as per the requirement of the respective University curriculum.

Participants familiar with Matlab are likely to benefit more from this workshop.

## Speakers

### All the speakers are from IIT Bombay.

- Prof. Madhu Bellur
- Mr. Aditya Sengupta
- Mr. Prashant Dave
- Ms. Anuradha Amrutkar
- Ms. Shalini Shrivastava

## Topics covered under the workshop

List of the topics that we can cover, in addition to the basic Scilab programming tools

- Control Systems
- Xcos (Block diagram modeling and simulation)
- Data Acquisition and Control
- Signal Processing and Filter Design
- Network Theory and Op/Amps
- Scilab for Mathematics
- Polynomials, ODEs
- Linear Algebra
- Interpolation, Least Squares

## National Workshop on Scilab

(Dec 27 – Dec 29, 2010)

## Registration Form

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

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

Department: \_\_\_\_\_

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

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Mobile No: \_\_\_\_\_

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

Accommodation Required: Yes/No \_\_\_\_\_

Payment Details: Rs. \_\_\_\_\_

D.D.No. & Date: \_\_\_\_\_

Name of the Bank \_\_\_\_\_

In favor of “Haldia Institute of Technology” payable at Haldia.

\_\_\_\_\_  
Signature of  
The Participant

\_\_\_\_\_  
Sign & Seal of  
Sponsoring Authority