Introduction

An important initiative has been taken by IIT Bombay to work with teachers of Engineering Colleges in the country to enhance the effectiveness of the teaching/ learning process in core Engineering and Science Subjects. This initiative has now become a part of the National Mission on Education through ICT supported by MHRD. A theme paper outlining the details of the initiative is available on the website http://ekalavya.it.iitb.ac.in/eOutreachHome.do

In December 2009, we conducted a two-week ISTE workshop in "Effective teaching/ learning of Computer Programming.' This course is taught in all engineering/MCA colleges in the country. An estimated 7,00,000 students study this subject every year, taught by about 7000 to 10000 teachers covering lectures, tutorials and labs, typically in the first year of all branches of engineering. This workshop was conducted for teachers across the country, through distance mode using the EDUSAT network of ISRO. The participating teachers attended live lectures given by IIT faculty at a remote center close to their own college, and also attended tutorial and lab sessions conducted in the same centers. Each center had a course Coordinator, who supervised the conduct of tutorials and Labs. All the lectures and tutorial sessions were recorded, and the final edited audio-visual contents, along with other course material will be released under open source. This content can be freely used later by all teachers and students. This pilot workshop was conducted at 22 remote centers across the country with over 630 participating teachers.

The resounding success of the pilot has encouraged us to organize another 2-week workshop on the same subject, from 28th June to 10th July 2010. This time, other than the ISRO-IITB EDUSAT network remote centers, various National Institutes of Technology (NITs), and a few other institutes will also be joining us on the National Knowledge Network (NKN) and through internet.

Course Content
Detailed course contents will be published on the website
http://ekalavya.it.iitb.ac.in/eOutreachHome.do.
closer to the date of the workshop. These will reflect the syllabus adopted by most universities for the subject "Computer Programming," offered as the first introductory subject to new entrants. The participating teachers will get a flavour of IIT style teaching.

Duration and Venue
The workshop duration is two weeks. It will start at **09:30 am** on Monday, **28th June 2010**, and will end at **18:00** on Saturday **10th July 2010**. Additional contributions from participants are required to be made within the following two weeks. These are detailed in the theme paper. The venues for the workshop will be *32 remote centers*. The tentative list is enclosed with this brochure.
Teaching Faculty

Prof. D.B. Phatak, Chair Professor, and other expert faculty from department of Computer Science and Engineering, IIT Bombay.
URL: http://www.cse.iitb.ac.in/~dbp/

Who may benefit
The workshop will benefit faculty colleagues who are teaching the computer programming subject in their colleges. They should have taught this subject at least once and should be familiar with the syllabi and examination pattern of their own college or university.
Note

Please note that this workshop is conducted under the eOutreach project of IIT Bombay. Live recording of the course and other created contents would be released under Open Source through a portal. The recorded CD/DVD of the course lectures would be available for distribution at cost, to any individual/ institution. All participants are required to sign a certificate for such release of contents contributed by them during and after the workshop. The recognition and citation will naturally be made for all contributors.
Accommodation & other support

Remote centers are being funded to provide tea/lunch on each day of the workshop, and for accommodation, wherever available*, for limited number of outstation participants. **Travel expenses up to Rs.1000 will be reimbursed against proof of actual expenditure.**

Accommodation is not guaranteed

Course Fee

Since the workshop is funded by the **National Mission on Education through ICT (MHRD, Government of India)**, there is **no** course fee for participation.

How to Apply

Those wishing to attend this workshop should enroll online at this website **http://ekalavya.it.iitb.ac.in/eOutreachHome.do.**

Enrollment will be strictly online and no other applications will be entertained.

The form contains a list of remote centers. Please select a center close to your institute, from the list to indicate where you would wish to attend the workshop. Last date for enrollment is **4th June 2010**. A short list of registered participants will be put up on this website on **14th June 2010.** The selected participants will also be informed by email. **LAST DATE FOR ONLINE ENROLLMENT: 4th June 2010**

For queries, contact:

Dr. Mukta Atrey, Ms. Kalpana Kannan,
 Project Managers (e-Outreach Project),

Kanwal Rekhi Building,
Indian Institute of Technology Bombay,
Powai, Mumbai 400 076.
Tel. : +91-22-2576 4982/ 4983
fax : +91-22-2572 0022
Email: eoutreach@it.iitb.ac.in

List of Institutes participating as Remote Centres for June-July 2010 Workshop

Andhra Pradesh
National Institute of Technology, (NIT), **Warangal**
Gujarat
National Institute of Technology, (NIT), **Surat,**
Nirma University of Science & Technology, **Ahmedabad**
Haryana
National Institute of Technology, (NIT), **Kurukshetra**
Himachal Pradesh
National Institute of Technology, (NIT), **Hamirpur**
Jammu & Kashmir
DOEACC Center, **Srinagar & Jammu**
Karnataka
Amrita School of Engineering, **Bengaluru**
National Institute of Technology, (NIT), **Surathkal**
Kerala
Amrita School of Engineering, **Kollam**
Govt. Engineering College, **Thrissur**
National Institute of Technology, (NIT), **Calicut**
Madhya Pradesh
Maulana Azad National Institute of Technology, (NIT) **Bhopal**
Samrat Ashok Technological Institute, **Vidisha**
Maharashtra
G.H.Raisoni College of Engg , **Nagpur**
KCES College of Engineering and Information Technology, **Jalgaon,**
K J Somaiya College of Engineering, Vidyavihar, **Mumbai**
Maharashtra Education Societys Institute of Management and Career Courses (IMCC), **Pune**
R. C. Patel Institute of Technology, **Shirpur**
Rajarambapu Institute of Technology, **Islampur**
VJTI, **Mumbai**
Visvesvaraya National Institute of Technology, **Nagpur**
Punjab
National Institute of Technology, (NIT), **Jalandhar**
Rajasthan
Jaipur Engineering College, **Kukas**
Tamil Nadu
Amrita Institute of Technology & Science, **Coimbatore**
Anna University, **Chennai**
National Institute of Technology, (NIT) **Tiruchirappalli**
Periyar Maniammai University, **Thanjavur**
PSG College of Technology, **Coimbatore**
Sona College of Technology, **Salem**
Vellore Institute of Technology, **Vellore**
Uttar Pradesh
IIIT **Allahabad**
West Bengal
National Institute of Technology, (NIT), **Durgapur**

TWO WEEK ISTE WORKSHOP

ON

Effective teaching/learning of Computer Programming

under the

MHRD National Mission on Education through ICT

28th June to 10th July 2010

Conducted by IIT Bombay

Coordinator:
Prof D.B. Phatak
Dept. of Computer Science & Engineering

Indian Institute of Technology Bombay
Powai, Mumbai - 400076