

Introduction

An important initiative has been taken by IIT Bombay to work with Engineering Colleges in the country, to enhance the teaching skills of our faculty colleagues in core Engineering and Science Subjects. Under this project called **“Empowerment of Students & Teachers through Synchronous & Asynchronous Instruction,”** IIT Bombay conducts two-week ISTE workshops during the vacation period in summer and winter. Live lectures are given by IIT faculty. The participating teachers attend at a remote center close to their own college, and also attend tutorial and lab sessions conducted in the same center. The lecture transmission and live interaction takes place through distance mode using the AVIEW technology and the internet, at selected remote centers across the country. This initiative is part of the National Mission on Education through ICT, supported by MHRD. Faculty coordinators are appointed at each remote center, to handle the technology infrastructure and other operational logistics. Additionally, for each workshop, there is a workshop faculty coordinator for that subject who will help in the conduct of labs and tutorials at that center.

Since December 2009, we have conducted two-week ISTE workshops on “Effective teaching/ learning of Computer Programming,” “Database Management Systems,” “Basic Electronics,” “Thermodynamics,” “Software Development Techniques for Teachers of Engineering and Science Colleges,” “Heat Transfer,” “Solar Photovoltaics”, “Introduction to Research Methodology” and “Engineering Thermodynamics.” We have reached more than 24,500 teachers and helped them to enhance their teaching skills at around 235 distinct Remote Centers across the country.

In the backdrop of the success of these workshops, we now announce another Two-day ISTE workshop, on **Research Methods in Educational Technology**, to be held in **February 2013**.

Teaching Faculty

Prof. Sahana Murthy, Centre for Distance Engineering Education Programme, IIT Bombay
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Prof. Sridhar Iyer, Department of CSE, IIT Bombay
<http://www.cse.iitb.ac.in/~sri/>

Teaching Assistants from Educational Technology Inter-Disciplinary Programme, IIT Bombay

Duration and Venue

The duration of the workshop is **2 days**. The workshop will be conducted over two consecutive Saturdays (2nd Feb 2013 and 9th Feb 2013), with Moodle based assignments in-between.

The details and enrollment link are available on the website

<http://www.it.iitb.ac.in/nmeict/rmet>

Who may benefit

This workshop is meant for faculty members teaching at the tertiary level, in **Engineering and Science**, who intend to conduct research in educational technology. We intend that the guidelines and skills discussed in the workshop will help participants improve the chances of getting their research papers accepted. We also encourage Ph.D students who are interested in educational technology research to participate in this workshop.

The workshop will contain theory sessions on research methods in educational technology, as well as practical sessions wherein participants will get an opportunity to apply knowledge and guidelines from the workshop. During the workshop, participants will identify the topic for their educational technology research. In the practical sessions, participants will work on several exercises individually and in teams to begin writing educational technology research papers. In addition,

they will participate in peer-review sessions. Participants will be expected to complete homework assignments, before and after the workshop.

Pre-workshop submission:

Participants will be expected to submit a pre-workshop assignment over Moodle. Some workshop sessions will be based on the assignment; hence all participants are required to complete the assignment. Further details will be available on Moodle.

Important Note:

Since the workshop is only for two days, there will not be a coordinators’ workshop. It is mandatory that while registering for the workshop, the participants should submit a scanned copy of a letter from the principal/ Head of the Institute mentioning, in our pre-format letter. Registration without this letter, will not be considered.

Participants will be provided certificate from IIT Bombay only after successful completion of the assignments.

Note

Please note that this workshop is being conducted by the eOutreach project of IIT Bombay, under the National Mission on Education through ICT. Live recording of the course and other created contents, will be released under Open Source through a portal. The recorded CD/DVDs of the course lectures will be available for distribution at cost, to any individual/ institution. All participants are required to sign an authorization for such release of contents contributed by them during and after the workshop. Recognition and citation will naturally be made for all contributors.

Course Fee

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

Accommodation & other support

Since all participating teachers will be attending the workshop at their own place of work, there is no funding support for TA/DA and accommodation.

Those Institutes who are not yet Remote Centers for IIT Bombay, but willing to attend the workshop may attend in the nearby Remote Center depending upon the discretion of the Remote Center Coordinator or seating capacity at that center. Also, the cost related to refreshments will not be borne by IIT Bombay.

How to Apply

Those wishing to attend this course should register online at <http://www.it.iitb.ac.in/nmeict/rmet>

Enrollment will be strictly online, and no other mode of application will be entertained.

The last date for enrollment and for submission of permission letter is **25th January 2013**. A list of selected participants will be put up on this website on **30th January 2013**. The selected participants will also be informed by email.

**LAST DATE FOR ONLINE ENROLLMENT:
25th January, 2013**

Address for Communication:

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Course Content

Topics in the workshop will include:

- What are different types of research problems in educational technology.
- How to read and analyze a research paper in educational technology.
- How to convert your innovative teaching and learning idea into a research study.
- How to plan, conduct, and analyze your experimental study in educational technology.
- What are various techniques to evaluate the effectiveness of your study.
- How to create robust measurement instruments (such as questionnaires).

TWO-DAY ISTE WORKSHOP

on

Research Methods in Educational Technology

Under the

***National Mission on Education through ICT
(MHRD, Govt. of India)***

2nd & 9th February 2013

Conducted by IIT Bombay



Course Coordinators:

**Prof. Sahana Murthy
Prof. Sridhar Iyer**

Dept. of Computer Science & Engineering

Project Coordinator:

Prof. D. B. Phatak
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