

2-Week ISTE Workshops conducted by IIT Bombay

About 10 years ago, an important initiative was taken by IIT Bombay to enhance the teaching skills of our faculty colleagues in Engineering and Science Subjects. This initiative has now become a part of the National Mission on Education through ICT (NMEICT) supported by MHRD. We have conducted two-week ISTE workshops on Computer Programming, Database Management Systems, Thermodynamics, Basic Electronics, Heat Transfer, Software Development Techniques, Solar Photovoltaics, and Writing Effective Conference Papers. These workshops were attended by about 9,500 participating teachers across the country, at 78 remote centres, through distance mode, using the internet.

In the backdrop of the success of these workshops, we now announce a mega-workshop: a two-week ISTE workshop, on **Introduction to Research Methodologies**, to be held from **25th June to 4th July 2012, at about 200 Remote Centres across the country.**

Duration and Venue

The ISTE workshop on **Introduction to Research Methodologies** will be conducted simultaneously at multiple remote centres across the country, in the distance mode. Every remote centre will have about 50-100 participants. The workshop will include the delivery of live interactive lectures from IIT Bombay, and locally organized tutorial and laboratory sessions. The course will be networked to the remote centres via the internet, using specially developed software called AVIEW.

Introduction

Research Methodologies is being recommended by AICTE to be a compulsory core subject for all ME/M.Tech programmes in the country. The syllabus is currently being drafted by a committee at AICTE. It is therefore important, that a large number of teachers should be able to teach this subject, or at least be fully conversant with the basic concepts.

Course outline

Topics

This course will provide an introduction to research for scientists and engineers. The goal of the course is to take a researcher through the various aspects and steps of a research project. Topics covered in the course are classified into the following main categories:

- Productive Thinking Skills
- Scientific Method and Experimentation Skills
- Communication Skills – Written and Oral
- Management of research – time management, stress management, professional ethics

Format

The course will consist of lectures and several interactive sessions. There will be tutorials and practical sessions wherein participants will get an opportunity to apply the research methodologies and skills discussed, to address research problems. Participants will work on several exercises individually and in teams.

Course Faculty

Prof. Shreepad Karmalkar, IIT Madras
Prof. Uday Gaitonde, IIT Bombay
Prof. Sahana Murthy, IIT Bombay
Prof Santosh Noronha, IIT Bombay

Who Should Attend

This workshop will benefit all faculty members guiding and working on research projects in their college. We encourage teachers in the initial stages of research, such as those pursuing M.E. and Ph.D, to participate.

Limited seats may be offered **without any funding support**, to PG students to participate as observers, in case of availability of space at a remote centre.

Note A

Please note that the participants will be required to make additional contributions within the following two weeks for certification. These contributions will be in the form of assignments.

Note B

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 No Objection certificate for such a release of contents contributed by them during and after the workshop. All contributors will be acknowledged.

Accommodation and other support

Remote centres are being funded to provide tea/lunch on each day of the workshop. Accommodation may be made available for a limited number of outstation participants, but there is no guarantee. Travel expenses up to Rs.1000/- will be reimbursed against proof of actual expenditure.

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://www.it.iitb.ac.in/nmeict/rm>

Enrolment will be strictly online, and no other mode of applications, will be entertained.

The online form contains a list of remote centres. From this list, please select up to 3 centres close to your institute, where you would wish to attend the workshop.

Last date for enrolment and for submission of permission letter is 14th June 2012.

A list of selected participants will be put up on this website on 18th June 2012. The selected participants will also be informed by email.

LAST DATE FOR ONLINE ENROLMENT:
14th June 2012

Address for Communication:

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Eligibility

- Teachers employed in engineering colleges are eligible to attend this workshop. This includes teachers who are visiting faculty, and contract employees.
- The participants have to submit a letter from the head of their institute stating that the participant is a bonafide employee of that institute. This letter has to be scanned uploaded on the workshop website.
- If the participant is unable to submit such a letter at the time of online enrolment, he/she would still be able to attend the workshop. However, he/she has to upload the letter to within 7days after conclusion of the workshop.

In case of non-submission of the letter, the participant would not be given the ISTE certificate of participation. In addition, he/she will be liable to refund the cost incurred on his/her participation.

- Teachers from Science colleges, who are involved in research, may also apply. Such applicants will be accommodated only if there are vacant seats in the Remote Centre of their choice. If selected, their participation will also be funded to the same extent as the teachers from engineering colleges.
- **Important:** Please note that the participants will be required to make additional contributions within the following two weeks for certification. These contributions will be in the form of assignments.

2-week ISTE Workshop

on

Introduction to Research Methodologies

Under the

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

25th June - 4th July 2012

Conducted by IIT Bombay



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Prof Santosh Noronha, IIT Bombay

Project Coordinator

Prof. D.B. Phatak

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