Introduction

work with Engineering Colleges in the country, to teachers and helped them to enhance their teaching enhance the teaching skills of our faculty colleagues in skills at around 189 distinct Remote Centers across the core Engineering and Science Subjects. Under this country. project called "Empowerment of Students & **Teachers through Synchronous & Asynchronous** In the backdrop of the success of these workshops, we Instruction." IIT Bombay conducts two-week ISTE now announce another two-week ISTE workshop, on workshops during the vacation period in summer and Engineering Thermodynamics, to be held in Dec Important Note: winter. Live lectures are given by IIT faculty. The 2012. participating teachers attend at a remote center close to their own college, and also attend tutorial and lab Teaching Faculty sessions conducted in the same center. The lecture transmission and live interaction takes place through Prof. U.N. Gaitonde, Department of Mechanical distance mode using the AVIEW technology and the Engineering, IIT Bombay internet, at selected remote centers across the country. <u>http://www.me.iitb.ac.in/wiki/doku.php?id=gaitonde</u> This initiative is part of the National Mission on Education through ICT, supported by MHRD. Faculty Prof. U. V. Bhandarkar, Department of Mechanical coordinators are appointed at each remote center, to Engineering, IIT Bombay handle the technology infrastructure and other http://www.me.iitb.ac.in/wiki/doku.php?id=bhandarkar operational logistics. Additionally, for each workshop, there is a workshop faculty coordinator for that subject **Prof. Bhalchandra Puranik**, Department of who will help in the conduct of labs and tutorials at that Mechanical Engineering, IIT Bombay, center.

We invite expert faculty from various remote centers for a five-day Coordinators' training workshop which is held Duration and Venue in IIT Bombay, before the main workshop. These Coordinators then act as Workshop Coordinators The duration of the workshop is 2 weeks (10 working during the main workshop, liaising between the days.) It will begin on Tuesday 11th Dec at 09:00 hrs participants at their Remote Centers and IIT Bombay and end at 18:00 hrs on Friday 21st Dec 2012 with a from where the workshop is transmitted live. During the day break on Sunday 16th Dec only. Additional main workshop, the Workshop Coordinator at every contributions from participants are required to be made center supervises the conduct of tutorials and Labs. All within the following two weeks. the lectures and tutorial sessions are recorded. The final edited audio-visual contents, along with other The details and enrollment link are available on the course material will be released under Open Source, website These contents can be freely used later by all teachers http://www.it.iitb.ac.in/nmeict/enggthermo and students.

ISTE workshops on "Effective teaching/ learning of centers. Computer Programming," "Database Management Systems," "Basic Electronics," "Thermodynamics," "Software Development Techniques for Teachers of

Engineering and Science Colleges," "Heat Transfer,", Who may benefit "Solar Photovoltaics", and "Introduction to Research An important initiative has been taken by IIT Bombay to Methodology." We have reached more than 19,500

http://www.me.iitb.ac.in/wiki/doku.php?id=puranik

The workshop will benefit faculty colleagues who are teaching Engineering Thermodynamics at the UG or PG level. The focus of the workshop will be on Mechanical Engineering Thermodynamics. However, teachers from allied engineering departments may also benefit to some extent.

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.

Note

Please note that this workshop is 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/DVD of the course lectures will be available for distribution at cost, to any individual/ institution. All participants are required to sign a 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 through ICT (MHRD, Government of India), there is no course fee for participation.

Accommodation & other support

The venues for the workshop will be over 175 remote Remote centers are being funded to provide tea/lunch Since December 2009, we have conducted two-week centers. The above link contains the list of all remote on each day of the workshop, and for accommodation, wherever available*, for a limited number of outstation participants. Travel expenses up to Rs.1000/- will be reimbursed against proof of actual expenditure. *Accommodation is not guaranteed.

How to Apply

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

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

The online form contains a list of remote centers. From this list, please select a center close to your institute. We have remote centers in the following states: where you wish to attend the workshop. The last date for enrollment and for submission of permission letter is 3rd Dec 2012. A list of selected participants will be put up on this website on 5th Dec. 2012. The selected participants will also be informed by email.

LAST DATE FOR ONLINE ENROLLMENT: 3rd December. 2012

Address for Communication:

Dr. Mukta Atrey, **Project Manager**, Department of CSE, Kanwal Rekhi Building, Indian Institute of Technology Bombay, Mumbai - 400 076 Tel.: +91-22-2576 4982/ 4983/ 4989 Fax: +91-22-2572 0022 Email: eoutreach@it.iitb.ac.in

Course Content

Detailed course contents are available on our website. These reflect the syllabus adopted by most universities for the subject 'Engineering Thermodynamics'.

REMOTE CENTERS

- Andhra Pradesh
- Chhattisgarh
- Delhi
- Goa
- Gujarat
- Haryana
- Himachal Pradesh
- Jammu and Kashmir
- Karnataka
- Kerala
- Madhya Pradesh
- Maharashtra
- Orissa
- Punjab
- Rajasthan
- Tamil Nadu
- Uttar Pradesh
- West Bengal

TWO-WEEK ISTE WORKSHOP

on

Engineering Thermodynamics

Under the

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

11th – 21st December 2012

Conducted by IIT Bombay



Course Coordinators:

Prof. U. N. Gaitonde Prof. U. V. Bhandarkar Prof. Bhalchandra Puranik Dept. of Mechanical Engineering

Project Coordinator:

Prof. D.B. Phatak

Dept. of Computer Science & Engineering

Indian Institute of Technology Bombay Mumbai - 400076