

## 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. This initiative has now become a part of the National Mission on Education through ICT (NMEICT) supported by MHRD. A [theme paper](#) outlining the details of the initiative is available [here](#)

From December 2009 onwards, we have conducted two-week ISTE workshops on 'Effective teaching/learning of Computer Programming' and "Database Management Systems," under the NMEICT. These workshops were conducted through distance mode using the EDUSAT network, and the internet. These were attended by over 1300 teachers at 36 remote centers and 1039 teachers at 33 remote centers respectively. For the workshop on "Database Management Systems", the internet was the sole mode of transmission, and proved to be very effective.

Live lectures were given by IIT faculty; the participating teachers attended them at a remote center close to their own college. Tutorial and lab sessions were 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. These contents can be freely used later by all teachers and students.

The resounding success of these workshops has encouraged us to organize another 2-week workshop, on **Thermodynamics in Mechanical Engineering** from 14<sup>th</sup> - 24<sup>th</sup> June, 2011. This time, we have 34 institutes joining us on this mission, as Remote Centers through the Internet.

## Teaching Faculty

**Prof. U.N. Gaitonde**, Department of Mechanical Engineering, IIT Bombay  
<http://www.me.iitb.ac.in/wiki/doku.php?id=gaitonde>

**Prof. U. V. Bhandarkar**, Department of Mechanical Engineering, IIT Bombay  
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## Course Content

Detailed course contents are available on our website <http://ekalavya.it.iitb.ac.in/eOutreachHome.do>. These reflect the syllabus adopted by most universities for the subject 'Thermodynamics in Mechanical Engineering.' The participating teachers will also be introduced to the IIT style of teaching.

## Duration and Venue

The duration of the workshop is **2 weeks (10 working days)**. It will begin at **09:00 am** on Tuesday, 14<sup>th</sup> June, 2011, and end at **17:30 pm** on Friday, 24<sup>th</sup> June, 2011. Additional contributions from participants are required to be made within the following two weeks.

The venues for the workshop will be **34 Remote centers**, the list of which is enclosed with this brochure.

## Who may benefit

The workshop will benefit faculty colleagues who are teaching **Thermodynamics in Mechanical Engineering**, 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

**It is mandatory that while registering for the workshop, the participant should submit a scanned copy of a letter from the principal/HOD of his/her institute mentioning that he/she is an employee of the institute and has been permitted to attend the workshop. Registration without this letter will not be entertained.**

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 would 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 or institution. All participants are required to sign an undertaking 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 [here](#)

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

The online form contains a list of remote centers. From this list, please select a center close to your institute, where you would wish to attend the workshop. Last date for enrollment is **27<sup>th</sup> May, 2011**. A list of selected participants will be put up on this website on **1<sup>st</sup> June, 2011**. The selected participants will also be informed by email.

**LAST DATE FOR ONLINE ENROLLMENT:  
27<sup>th</sup> May 2011.**

For queries, contact

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## Remote Centers

### Andhra Pradesh

JNTU College of Engineering, **Hyderabad**

### Gujarat

Institute of Technology, Nirma University, **Ahmedabad**  
Sardar Vallabh National Institute of Technology, **Surat**

### Kerala

National Institute of Technology, **Calicut**  
Amal Jyothi College Of Engineering, **Kottayam**  
St Joseph`s College of Engineering, **Palai**

### Madhya Pradesh

Jabalpur Engineering College, **Jabalpur**  
S.G.S Institute of Technology and Science, **Indore**  
Truba College of Engineering & Technology, **Indore**

### Maharashtra

Vidya Pratishthan`s College of Engineering, **Baramati**  
D.K.T.E`S Textile & Engineering Institute, **Ichalkaranji**  
K.J.Somaiya College of Engg, **Mumbai**  
Veermata Jijabai Technological Institute (VJTI), **Mumbai**  
G.H.Raisoni College of Engg , **Nagpur**  
Visvesvaraya National Institute of Technology, **Nagpur**  
Yeshwantrao Chavan College of Engineering, **Nagpur**  
K.K.Wagh Institute of Engineering Education & Research,  
**Nashik**  
MES`s Pillai`s Institute of Information Technology, **New Panvel**  
College of Engg, **Pune**  
MKSSS`s Cummins College of Engineering, **Pune**  
Vishwakarma institute of Technology, Bibwewadi, **Pune**  
Finolex Academy of Management & Technology, **Ratnagiri**,  
Walchand College of Engineering, **Sangli**  
R. C. Patel Institute of Technology, **Shirpur**

### Rajasthan

Jaipur Engineering College, **Kukas**

### Tamil Nadu

Anna University, **Chennai**  
Amrita Vishwa Vidyapeetham, **Coimbatore**  
PSG College of Technology, **Coimbatore**  
Government College of Technology, **Salem**  
Sona College of Technology, **Salem**  
Mepco Schlenk Engineering College, **Sivakasi**  
National Institute of Technology, **Tiruchirappalli**  
Periyar Maniammai University, **Thanjavur**  
Thanthai Periyar Government Institute of Technology, **Vellore**

# 2-WEEK ISTE WORKSHOP

on

**Thermodynamics in Mechanical Engineering**

Under the

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

**14<sup>th</sup> to 24<sup>th</sup> June, 2011**

Conducted by IIT Bombay



Coordinators:

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Dept. of Mechanical Engineering

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