Introduction

An important initiative has been taken by IIT Bombay to Methodology", "Engineering Thermodynamics" work with Engineering Colleges in the country, to Research Methods in Educational Technology." enhance the teaching skills of our faculty colleagues in have reached more than 30500 teachers and helped core Engineering and Science Subjects. Under this them to enhance their teaching skills at around 260 project called "Empowerment of Students & distinct Remote Centers across the country. **Teachers through Synchronous & Asynchronous Instruction**," IIT Bombay conducts two-week ISTE In the backdrop of the success of these workshops, we workshops during the vacation period in summer and now announce another two-week ISTE workshop, on winter. Live lectures are given by IIT faculty. The Database Management Systems, to be held in May, participating teachers attend at a remote center close to **2013**. their own college, and also attend tutorial and lab sessions conducted in the same center. The lecture transmission and live interaction takes place through **Teaching Faculty** distance mode using the AVIEW technology and the internet, at selected remote centers across the country. Prof. S. Sudarshan, Department of Computer Science This initiative is part of the National Mission on http://www.cse.iitb.ac.in/~sudarsha/ Education through ICT, supported by MHRD. Faculty coordinators are appointed at each remote center, to handle the technology infrastructure and other Duration and Venue operational logistics. Additionally, for each workshop, there is a workshop faculty coordinator for that subject The duration of the workshop is 2 weeks (10 working who will help in the conduct of labs and tutorials at that days.) It will begin on Tuesday 21st May at 09:00 hrs center.

a five-day Coordinators' training workshop which is held within the following two weeks. in IIT Bombay, before the main workshop. These Coordinators then act as Workshop Coordinators The details and enrollment link are available on the during the main workshop, liaising between the website participants at their Remote Centers and IIT Bombay http://www.it.iitb.ac.in/nmeict/dbms2013 from where the workshop is transmitted live. During the main workshop, the Workshop Coordinator at every The venues for the workshop will be over 230 remote center supervises the conduct of tutorials and Labs. All centers. The above link contains the list of all remote the lectures and tutorial sessions are recorded. The centers. 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 Who may benefit and students.

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,", Important Note: "Solar Photovoltaics", "Introduction to Research

and end at 18:00 hrs on Friday 31st May, 2013 with a day break on Sunday 26th May only. Additional We invite expert faculty from various remote centers for contributions from participants are required to be made

The workshop will benefit faculty colleagues who are teaching Database Management Systems 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.

and It is mandatory that while registering for the We 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 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 through ICT (MHRD, Government of India), there is no course fee for participation.

Accommodation & other support

Remote centers are being funded to provide tea/lunch on each day of the workshop, and for accommodation. wherever available*, for a limited number of outstation participants. Travel reimbursement upto Rs. 1000/will be paid only to the outstation participants, if the distance traveled from their Institute to the Remote Center is more than 100 kms.

*Accommodation is not guaranteed.

How to Apply

Those wishing to attend this course should register online at http://www.it.iitb.ac.in/nmeict/dbms2013

Enrollment will be strictly online, and no other ER Diagrams, UML Class Diagrams. Relational database design and normalization. Integrity and

The online form contains a list of remote centers. From information systems. this list, please select a center close to your institute, where you wish to attend the workshop. The last date for enrollment and for submission of permission letter is **4th May, 2013**. A list of selected participants will be put up on this website on **10th May, 2013**. The selected participants will also be informed by email. - A brief introduction t

LAST DATE FOR ONLINE ENROLLMENT: 4th May, 2013

Address for Communication:

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Course Content

- Overview of data management systems. Relational model and query languages (relational algebra and calculus, SQL). Database design using the ER Model, ER Diagrams, UML Class Diagrams. Relational database design and normalization. Integrity and Security. Design and development of Web based information systems.

- Overview of storage structures, indexing. query processing and optimization, and transaction processing.

- A brief introduction to decision support and data analysis, data warehousing and data mining and Information Retrieval.

REMOTE CENTERS

We have remote centers in the following states:

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

TWO-WEEK ISTE WORKSHOP

on

DATABASE MANAGEMENT SYSTEMS

Under the

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

21st – 31st May, 2013

Conducted by IIT Bombay



Course Coordinators:

Prof. S. Sudarshan

Dept. of Computer Science & Engineering

Project Coordinator:

Prof. D.B. Phatak

Dept. of Computer Science & Engineering

Indian Institute of Technology Bombay

Mumbai - 400076