

CEP workshops on

# Professional Development & Technology Orientation

(Secondary & Secondary teachers – 27, 28, 29<sup>th</sup> December, 2010)

Organized by CEP Cell, I. I. T. Bombay

Venue: Kennedy High, the global school, Hyderabad 500090

## INTRODUCTION

Mathematics education over the world is going through a great change. Curriculum planners all over the world are recommending radical reforms in math education at all levels to prepare all students to meet mathematical needs of the society. Concept of teaching, which was assumed to be processes of direct transmission of knowledge, is changing. Teaching is being viewed as a process of facilitating students' learning by creating a learning environment conducive to inquiry. This necessitates the teachers to upgrade and reorient themselves by:

- Strengthening one's knowledge of mathematics.
- Learning to use effective teaching strategies.
- Becoming familiar with exemplary instruction material and resources.
- Learning effective use of technology in teaching and learning.

## GOALS

The workshop is conceived with two main goals:

- **Strengthening conceptual understanding of mathematical concepts:** There will be lectures by subject experts on various mathematical topics taught at secondary and senior secondary level. Some lectures on special mathematical topics, normally not covered in the curriculum, are also planned.
- **Technology orientation and training:** The second component will have intensive hands-on training on the use of technology to facilitate the processes of mathematics teaching and learning.

## SCHEDULE AND TOPICS

The daily program will have two sessions. The pre-lunch session will have three one hour lectures devoted to conceptual strengthening of various topics covered in secondary and

sr.secondary level. Lectures are planned on the following topics:

- Calculus
- 3 D Geometry and vectors
- Combinatorics and probability

Afternoon sessions (two each of 2 hours) will be devoted to intensive hands on training on the following:

- Dynamic Geometry softwares.
- Learning from digital pictures
- Latex, math type setting

## WHO WILL BENEFIT

Secondary and senior secondary level teachers from schools / international schools (affiliated with CBSC, ICSE, IGCSE, IB and State Boards).

## COURSE VENUE

Kennedy High, the global high school, Hyderabad 500090

## NUMBER OF SEATS: 30-60

(On first come first served basis)

## COURSE FEE

The programme is only for secondary and sr. secondary teachers from schools affiliated to an education board. Registration fee for each participant is Rs. 5000/= . Registration entitles the participant for registration material, lunch and refreshments between lectures. Lodging and boarding for outstation participants can be made available on payment basis. **All the registered participants will be given participation certificate by I.I.T.Bombay**

## REGISTRATION

For registration, send details in the format given below along with demand draft for Rs. 5000/= drawn in favor of

**"Registrar, IIT Bombay (CEP A/c)"  
payable at mumbai**

Applications for registration should be sent to either of the following latest by December 15, 2010:

**Prof. Inder K. Rana,  
Convener 5<sup>TH</sup> PD&TO 2010  
Department of Mathematics,  
Indian Institute of Technology, Bombay  
Powai, Mumbai - 400 076.**

**Prof. Rama Krishna  
Academic Adviser  
KENNEDY HIGH the global school  
Bachpally, Miyapur-Medchal Highway  
Hyderabad - 500 090  
Phone: 040-64646477,040-64646488**

## Convener of the programme

**Prof. Inder K. Rana,  
Department of Mathematics,  
Indian Institute of Technology, Bombay  
Powai, Mumbai - 400 076.**

**Tel. : (022) 2576 7462 (O)  
(022) 2576 8462 (R)  
9819237020 (Mob)**

**Fax : (022) 25723480**

**Email : [ikrana@iitb.ac.in](mailto:ikrana@iitb.ac.in)**

**<http://www.math.iitb.ac.in/~PDTO>**



Office of  
Continuing Education Programme

***For information on other Continuing Education Programmes at IITB, contact:***

PROF-IN-CHARGE (CEP), OFFICE OF CONTINUING EDUCATION PROGRAMME (CEP), INDIAN INSTITUTE OF TECHNOLOGY, POWAI, MUMBAI - 400 076.

Tel. No. : 2572 6199 (D), 2576 7060.

Email : [cep@iitb.ac.in](mailto:cep@iitb.ac.in),

For latest information on CEP, please visit our home page at: <http://www.iitb.ac.in/~cep>

## Locale Coordinating school



Hyderabad 500090

FORMAT FOR REGISTRATRATION

## **Fifth CEP Course on Professional Development and Technology Orientation (for Secondary & Sr. Secondary Mathematics Teachers) 27-29th June, 2010**

NAME (BLOCK LETTERS): \_\_\_\_\_

GENDER (M / F): \_\_\_\_\_

Name of the school and classes you teach: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

EMAIL : \_\_\_\_\_

MOBILE: \_\_\_\_\_

TELEPHONE : \_\_\_\_\_ (O)

\_\_\_\_\_ (R)

ACCOMODATION NEEDED

(Yes/NO): \_\_\_\_\_

D.D DETAILS (Amount, Bank and No.): \_\_\_\_\_

**"The Demand draft should be drawn in favor of Registrar, IIT Bombay (CEP A/c)"**

Date & signature \_\_\_\_\_