

INTRODUCTION

It is well-known that any scientific investigation / study require one or more branches of mathematics. Mathematical tools give a precise way of formulating and analyzing a problem and to make logical conclusions. Knowledge of mathematical concepts and tools have become necessary for students aspiring for higher studies and career in any branch of Economics, Commerce and Management.

Math for ECM is a 14 day course aims to strengthen the mathematical foundations of students of Economics, Commerce, and Management. Professionals working in these field, wishing to upgrade their knowledge, will also benefit. The stress of the course will be on building the concepts and their applications.

WHO WILL BENEFIT

- Students graduating in Economics.
- Students graduating in commerce with specialization in finance/accounts.
- Students of social sciences planning careers in modeling.
- Teachers and working Professionals desirous of updating their mathematical background.

COURSE CONTENTS

Basic of financial mathematics, Calculus of on variable and applications, Optimization techniques, Partial derivatives, Optimization of several variables, Systems of linear equations, Geometric interpretation in two and three dimensions, introduction to matrices, Vector addition and scalar multiplication, Linear independence/dependence, Matrix operations, Rank of a matrix, Invertible matrices and Inversion, determinants and their applications.

DAILY PROGRAMME

The course will consist of 50 contact hours, four hours daily. The daily schedule will have lectures and problem solving sessions.

COURSE VENUE

Department of Mathematics, IIT Bombay

COURSE FACULTY

Prof. Inder K. Rana is a faculty member at the Department of Mathematics, I.I.T. Bombay since 1986. He has been organizing Workshops in Mathematics for TY BA/BSc students for the last ten years and ECM course for the last four years.

Prof. Felix Almeida (an ex faculty member at the Department of Mathematics, St. Xavier's College) with teaching experience of more than 35 years. He has organized special courses in Mathematics for Economics honors students and has been a faculty for the ECM workshops for the last four years..

COURSE FEE

Student (BA/B.Com/MA/M.Com): Rs. 7000/-
Others (Teachers and working professionals): Rs. 8000/-
(To know about the possibility of accommodation for outstation participants and charges for the same, please contact the convener).

Fees must be paid by a demand draft drawn in favour of "**Registrar, IIT Bombay (CEP A/c)**".

APPLICATIONS (including DD) MUST REACH

THE CONVENER

NOT LATER THAN **March 31, 2012**

Course fee covers course material and Tea/snacks only. Late registration will be accepted if seats are available.

NUMBER OF SEATS

Minimum No.: 30, Maximum No.: 60

CERTIFICATES

- Those who only attend the course, get a Participation Certificate from IIT Bombay.
- Those who qualify the final written examination get a Proficiency Certificate, indicating their grades.

REGISTRATION

Please give details on an A4 size paper in the format of the Registration form given below and mail it along with the course fees to the course coordinator

Please address all communication to:

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

Tel. : (022) 2576 7462 (O), 2576 8462 (R)

Fax : (022) 25723480

Email : ikrana@iitb.ac.in

<http://www.math.iitb.ac.in/ECM2012>

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

PROF-IN-CHARGE (CEP)
CONTINUING EDUCATION PROGRAMME (CEP)
INDIAN INSTITUTE OF TECHNOLOGY,
POWAI, MUMBAI - 400 076.
Tel. No. : 2572 6199 (D), 2576 7060.
Email : cep@iitb.ac.in

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

Long term CEP Certificate Course

7th Math for ECM

April 16-29, 2012

NAME (BLOCK LETTERS):

GENDER (M / F):

PRESENT COURSE OF STUDY AND COLLEGE
(BA/B.Com/MA/M.Com)

IF YOU ARE NOT A STUDENT, STATE YOUR PROFESSION AND ORGANIZATION:

COMPLETE MAILING ADDRESS:

TELEPHONE : _____ (O) _____ (R)

FAX: _____ MOBILE: _____

EMAIL : _____

PAYMENT: D.D. No.: _____ Dt. _____ Rs. _____

[Demand draft should be drawn in favour of "The Registrar, IIT Bombay (CEP A/c)".]

Date:

Signature of Applicant

7th

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Office of
Continuing Education Programme

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Powai, Mumbai - 400 076.

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MATHforECM

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MATH
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ECM

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I. I. T. Bombay

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Powai, Mumbai - 400 076



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