

Objectives of the Course

Cutting-edge frontiers in technology and global competition has made it imperative for industry to continuously strengthen its research activities, a significant component of which involves application of mathematical and computational methods. Obviously, this component of research is vital also in the work of the personnel belonging to the R&D establishments.

The purpose of this course is to arm the participant with the necessary ideas and methods, so that when mathematical elements appear in research, one can tackle them with confidence, possibly with further independent study into specialized areas. Its major role is to summarize, crystallize, enhance and give a forward orientation to the mathematical methods taught in undergraduate curriculum, with projections to future requirements.

The course will be useful for college/university teachers as well for research foundation and curriculum development.

Course Contents

Numerical Linear Algebra, Nonlinear Optimization, Numerical Methods, Vector and Complex Analysis, Differential Equations and Applications, Approximation Techniques.

Course Fees:

General category Rs.8000/-
College teachers (if not supported
by QIP) and students Rs.3000/-

How to Apply

Those interested in attending the course are requested to fill the registration form enclosed and send the completed application with a passport size photograph and a demand draft towards the course fee in favour of "Mathematical Methods" payable at State Bank of India, IIT Kanpur Branch, to the address

Dr. Bhaskar Dasgupta,
Department of Mechanical Engineering,
Indian Institute of Technology,
Kanpur — 208 016;

so as to reach by 15 June 2006.

Important Points to Note:

1. In student category, a limited number of participants will be selected, based on seat availability.
2. In all cases, if we are unable to accommodate an applicant due to constraints on number of seats, the fee paid by him/her will be refunded.
3. Accommodation and meals will be appropriately arranged for the participants, against normal institute charges.
4. From the funding received from the MHRD, the participation of around 30 college teachers will be financially supported by the usual QIP norms. See

<http://home.iitk.ac.in/~dasgupta/stc2k6/>

for details.

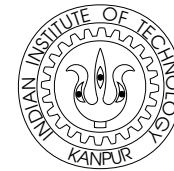
ANNOUNCEMENT

Short Term Course

on

Mathematical Methods in Engineering and Science

During 3–15 July



Department of Mechanical Engineering
Indian Institute of Technology
Kanpur

Course Coordinator:
Dr. Bhaskar Dasgupta

- *Applied Linear Algebra*
- *Numerical Methods*
- *Differential Equations and Applications*
- *Approximation Techniques*

<http://home.iitk.ac.in/~dasgupta/stc2k6/>

Contact:

Dr. Bhaskar Dasgupta,
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Email: dasgupta@iitk.ac.in
URL: <http://home.iitk.ac.in/~dasgupta>

Mr. Vivek K. Shukla,
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Indian Institute of Technology,
Kanpur — 208 016.

Phone: 0512-259-7627
Mobile: 9450137335
Fax: 0512-259-7408
Email: ksvivek@iitk.ac.in

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Important:

Look up the course web-site

<http://home.iitk.ac.in/~dasgupta/stc2k6/>

periodically to get updates and general information.

REGISTRATION FORM

(Please fill in block letters or type)

NAME :
SEX (for accommodation purposes) :
QUALIFICATION :
EXPERIENCE :
AREAS OF INTERESTS :
DESIGNATION :
DEPARTMENT :
INSTITUTE/ORGANIZATION :
FULL ADDRESS :

PHONE :
FAX :
EMAIL :
DEMAND DRAFT NUMBER, BANK AND DATE:

RECOMMENDATION OF HEAD OF INSTITUTION
(Not needed for general category):

SIGNATURE WITH SEAL

SIGNATURE OF THE PARTICIPANT

For office use only

Ref. No.: Photo: received/required

Remarks:

(Course Coordinator) Date: