



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

NATIONAL PROGRAMME ON DIFFERENTIAL EQUATIONS THEORY, COMPUTATION & APPLICATION

NPDE-TCA 2012

(Sponsored by DST)

Advanced Workshop On Evolution Equations: Theory, Methods & Applications
(AWEETMA-2012)



INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

December 2 - 6, 2012

IIT Kanpur will be hosting an Advanced Workshop on Evolution Equations: Theory, Methods & Applications during 2 - 6 December, 2012 under National Programme on Differential Equations: Theory, Computation & Applications (NPDE-TCA).

AIM: *The theory of evolution equations has gained considerable importance because of its wide applicability and its utility to analyze complex phenomena with considerable ease. The real physical problems get remodeled as equations in functional spaces and the rich theory and tools of functional analysis can be used to study these problems to obtain fundamental results. These results are then interpreted to analyze the behavior of the physical system under consideration. The class of evolution equations is getting enlarged with each of new findings and getting diversified into new branches, like fractional order evolution equations, evolution equations with non-local conditions, evolution equations involving impulsive conditions and so on. So there is a need to modify our existing tools of functional analysis to cater to the demands of analyzing these more complicated evolution equations. This workshop aims at familiarizing our researchers working in India with the current trends in evolution equations and motivate them to take up the challenging problems in this and related areas of research.*

TARGET AUDIENCE:

Post-graduate (Mathematics) Students and Researchers working on Evolution Equations in various Indian Universities and Organizations.

MAIN TOPICS:

Fixed Point Theorem & Applications, Monotone Operators, Semi-Group Theory Based Methods, Galerkin Methods, Control Theory, Time Discretization.

RESOURCE PERSONS:

N. Sukavanam (IITR), Amiya K. Pani (IITB), Rajen K. Sinha (IITG), V. Raghvendra (IITK), D. Bahuguna (IITK), B.V. Rathish Kumar (IITK), Pravir Dutta (IITK), P. Veeramani (IITM).

ORGANISING COMMITTEE:

Peeyush Chandra (IITK), M.K. Kadalbajoo (IITK), Pravir Dutt (IITK), Akash Anand (IITK), Malay Banerjee (IITK), Prawal Sinha (IITK).

CO-ORDINATORS:

D. Bahuguna and B.V. Rathish Kumar (IITK).

PARTICIPATION:

To participate in the workshop, fill in the required form which can be downloaded from the website:

<http://www.math.iitb.ac.in/~npde-tca> and email to: eeetma.wrksph@gmail.com.

Also send the signed form by post together with your CV and recommendation letter(s) from your supervisor / HOD to the following contact address. Also refer conference brochure for further information regarding participation.

CONTACT:

Prof. D. Bahuguna / Prof. B.V. Rathish Kumar (Co-ordinators),

Advanced Workshop On EETMA-2012,

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Ph : 0091-512-259 7660/7053/7636, Fax : 0091-512-259 7500 (Dept. Office).

Last Date of receipt of application: October 25th, 2012

Selection of participants will be based on their academic records and recommendation letters.

List of selected participants will be put on the web page by October 31st, 2012.

The workshop is followed by a National Conference on the same theme.

