



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**



**NATIONAL PROGRAMME ON DIFFERENTIAL  
EQUATIONS:  
THEORY, COMPUTATION & APPLICATION  
NPDE-TCA-2015**

(Sponsored by DST)

Announcement of

**ADVANCED LEVEL WORKSHOP on Variational Inequality (VI) & Applications  
at  
Sharda University, Knowledge Park-III, Greater Noida  
January 24-28, 2016**

On the occasion of silver jubilee celebration of ISIAM in 2016, it is planned to organize a 5 days advanced level workshop on Variational Inequality and Applications under National Programme on Differential Equations: Theory, Computation & Applications (NPDE-TCA). This workshop is prior to the ISIAM Conference which will be held in Sharda University during January 29-31, 2016.

**AIM:** The main objectives are :

1. To expose the participants to applications of Variational Inequality to PDEs.
2. To bring together the researchers working on Variational Inequality.

**TARGET AUDIENCE:**

Ph.D. Students, Young Researchers, Post-doctoral Fellows and Young Faculties. Preference is given to those having exposure to Sobolev spaces and weak solutions to elliptic PDEs

**MAIN TOPICS:**

- Module I. Review of Sobolev spaces and weak Formulation of Elliptic Problems
- Module II. Theory of Monotone operators
- Module III. Variational Inequalities and Applications to PDEs
- Module IV. Finite Elements Methods for obstacle problems

**RESOURCE PERSONS:**

Mohan C Joshi (IIT Gandhinagar); S Kesavan (IMSC Chennai); Amiya K Pani (IIT Bombay); Neela Nataraj (IIT Bombay); T. Gudi (IISc Bangalore); A.A. Khan (Rochester Institute of technology, USA); Barbara Lee Keyfitz (Ohio State University, USA)

**COORDINATORS:** Amiya K Pani (IIT Bombay) , Mohan C Joshi (IIT Gandhinagar).

**LOCAL ORGANIZING COMMITTEE:** A.H. Siddiqi , P. Manchanda.

**PARTICIPATION & REGISTRATION FEES:**

To participate in workshop fill the required online form available on the website :

<http://www.npde-tca.math.iitb.ac.in/>. Participants are strongly encouraged to attend both workshop and conference

**REGISTRATION FEES:**

Fees of Rs. 1000/- only for the workshop and Rs. 2000/- for both conference and workshop payable at the time of registration at Sharda University.

**LOCAL CONTACT:**

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*Last Date of receipt of application: 10<sup>th</sup> December, 2015*

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

*List of selected participants will be put on the web page by 12<sup>th</sup> December, 2015*