A report
on
Advanced Level Training Program on Differential Equations
(ATP-2015)
(Sponsored by DST)

Workshop Participants

The Department of Mathematics in collaboration with National Programme on Differential Equations: Theory, Computation and Applications (NPDE-TCA), IIT Bombay, organized a 21-day national level workshop on "**Advanced Level Training Program on Differential Equations**" during May 25 to June 14, 2015. This workshop's theme was computational partial differential equations. The following eminent mathematicians were the resource persons:

- Prof. M. Vanninathan, TIFR-CAM, Bengaluru (Distribution Theory, 5 Lectures)
- Prof. Adimurthy, TIFR-CAM, Bengaluru (Elliptic PDE, 6 Lectures)
- Prof. N. Sabu, IIST, Trivandrum (Sobolev spaces, 5 Lectures)
- Prof. M. Thamban Nair, IIT Madras (Hilbert spaces, 4 Lectures)
- Prof. A. S. Vasudeva Murthy, TIFR-CAM, Bengaluru (Parabolic PDE, 5 Lectures)
- Prof. P. S. Datti, TIFR-CAM, Bengaluru (Hyperbolic equations and systems; classical and semigroup methods, 4 Lectures)
- Prof. Veerappa Gowda, TIFR-CAM, Bengaluru (Theory of Conservation Laws, 5 Lectures)
- Prof. A. K. Nandakumaran, IISc Bengaluru (A short Introduction to Optimization, Calculus of Variation and Optimal Control, 4 Lectures)
- Prof. K. R. Arun Kumar, IISER, Trivandrum (Numerics for Conservation Laws, 3 Lectures)
- Prof. Amiya K Pani, IIT Bombay (Abstract FEM, error analysis, Mixed FEM, 5 Lectures)
- Prof. M. C. Joshi, IIT Gandhinagar (Solvability Analysis, Variational Analysis and Control, 5 Lectures)
- Prof. Neela Natarajan, IIT Bombay (FEM for optimal control problems, 5 Lectures)
- Prof. Tirupathi Gudi , IISc Bengaluru (Element Construction and approximation theory, 5 Lectures)

As many as 40 students, research scholars from different parts of India including 8 from our institute participated. It was first ever such workshop for most of the participants. There were tutorial sessions all through the workshop in CC lab. Dr. Dhanumjaya convened the event and Dr Anil Kumar actively engaged in coordinating it.