

MAHARASHTRA ACADEMY OF ENGINEERING AND EDUCATIONAL RESEARCH'S
MAHARASHTRA ENGINEERING TECHNOLOGY, PUNE.

(Engineering College)

Department of Mathematics

Workshop

On

Emerging trends in Mathematics
conducted as part of Silver Jubilee Celebrations

Report

Department of Mathematics organized a workshop on 19th and 20th July, 2008. The inaugural function on 19th July at 10.15 am was presided over by Dr. V. D. Karad, Founder Director, MIT, Pune. The Chief Guest for the function was Dr. T.H. Date, eminent (Retd.) Professor in Mathematics, University of Pune. The theme of the workshop was on emerging trends in Mathematics. This workshop was organized for teachers of Mathematics in various Engineering Colleges. In all, seventy two participants attended this workshop.

The first objective of the workshop was to inculcate research interest among the teachers of Department of Mathematics of this Institute as well as promising teachers from various Engineering Colleges. Second objective of the workshop was to discuss the nature of syllabus of various mathematical courses taught in Engineering Colleges, and the way in which knowledge of Mathematics be imparted to the students taking various mathematical courses.

Keeping in mind the first objective, lectures of the following eminent Mathematicians in various fields were arranged on 19th and 20th July, 2008.

- 1) Dr. G. Radhakrishnamacharya, Professor of Mathematics, National Institute of Technology, Warangal,(A.P.) delivered the first lecture. The topic of his lecture was Biomechanics. He illustrated how various Mathematical concepts from Fluid Mechanics can be applied to understand the functioning of various organic systems in the human body.
- 2) The second lecture was on Boundary Layer Theory and its governing equations by Dr. J.V. Ramana Murthy, Professor of Mathematics, National Institute of Technology, Warangal (A.P.)

- 3) Third lecture of the day was by Dr. R.S. Deodhar, Senior Scientist, from Defence Institute of Advanced Technology, Girinagar, Pune. Subject of his lecture was on Cryptography and its applications.
- 4) The day concluded with an interesting lecture on the History of Mathematics, delivered by Dr. B.B. Singh, Head of Mathematics Department, Babasaheb Ambedkar Technological University, Lonere, District Raigad, Maharashtra.

Speakers on the second day were Dr Smita Naik, Senior Scientist, Defence Institute of Advanced Technology, Girinagar, Pune, Dr. B.N. Waphare, Head, Department of Mathematics, University of Pune and Dr. M.S. Chaudhary, Professor, Department of Mathematics, Shivaji University, Kolhapur. Topics of these speakers were Mathematical Modeling, Graph Theory and Distribution Theory respectively. First session on 20th July concluded at 2.00 pm.

For second session, Chairmen of various Boards of Study were invited to express their views on the mode of teaching Mathematics in Engineering Colleges. Dr. G.K. Kharate, Dr. K.N. Nandurkar and Dr. R.K. Jain from Departments of Electronics, Production and Civil Engineering actively participated in the discussion. Prof. D.B. Dandge and Dr. P.S. Joshi of Departments of Petrochemical and Polymer Engineering MIT, Pune also contributed a great deal to the discussion. Prof. K.R. Atal, Department of Mathematics, PICT, Pune also expressed his views on the mode of syllabi. Many of the participants also took active part in the discussion and made it lively.

This kind of interaction between Mathematics and Engineering Teachers was taking place after many years, and that too on the campus of MIT.

Participants of the workshop carried their happy memories of the workshop, after the concluding ceremony.