National Level Training program on
"Differential Equations with Applications in Engineering",
1st - 8th July 2016

A seven day Training programme on Differential Equations with Applications in Engineering under the TEQIP programme was organized by IIT Mandi during July 01-08, 2016. The workshop was inaugurated on July 01, in the presence of Prof. Timothy Gonsalves (Director, IIT Mandi), Dr. Syed Abbas (Convenor), Dr. Rajendra K. Ray and Dr. Muslim Malik (Members of the organizing committee).

The focus was differential equations, which is an integral part of many engineering problem. The training program was designed primarily for faculty members from Government engineering college Rajkot, Gujarat. 11 participants consisting of engineers and scientists attended the program. The topics covered during these days were theory as well as application of differential equations in several engineering problems.

9 speakers from mathematics and engineering field gave lectures for 7 days. The speakers included Prof. Timothy A Gonsalves, Dr. Syed Abbas, Dr. Rajendra K. Ray, Dr. Nitu Kumari, Dr. Muslim Malik, Dr. Rajeev Kumar, Dr. Kaustav Sarkar, Dr. Subashish Datta and Dr. Rajneesh Sharma, all from IIT Mandi.

The lectures of Dr. Abbas and Dr. Muslim were more focussed on theory of differential equations, the topic covered were from existence, uniqueness to Lyapunov stability. The topics of numerical methods especially finite difference and finite volume with applications were covered by Dr. Rajendra, Dr. Rajeev, Dr. Kaustav and Dr. Rajneesh. Dr. Subashish covered the topic of linear time invariant control systems. The theory of chaos was discussed by Dr. Nitu. A lecture on innovation and engineering was given by Prof. Gonsalves.

The workshop was sponsored by TEQIP 2016.