

Objectives and Course Content of Short Term Courses

Operational Plan No.	AS-19
Name of the Course	Numerical Methods with their Engineering Applications
Objectives of Course	The objectives of this short-term programme are to introduce basic and advanced numerical methods applied to engineering problems, their utility and applications to researchers and teachers of colleges.
Course Content	The contents of this course shall cover the topics: Numerical Interpolation, Finite difference, Use of Newton - Gregory Forward and Backward formulas, Lagrange's Interpolation formula for unequal interpolation, Numerical solution of ordinary differential equations, Newton- Raphson's formula, RK Formula, etc., Numerical differentiation and Integration, Overview of MATHEMATICA in context of Numerical Methods, Use of Numerical techniques in engineering problems, Numerical illustrations and assessment etc.
Name of Course Coordinator with E-mail ID and Contact Number	Dr. KC Lachhwani Kailashclachhwani@yahoo.com 092144-60018