

Department of Mathematics
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Course	Course Name : Finite Difference
	Course Code : KM184715
	Credit : 2
	Semester : 7

Description of Course	
Discussion of different equations courses covers basic problems in Calculus Differences Up to and can use them on applied issues.	
Learning Outcome	
PLO 2	[C3] Students are able to solve simple and practical problems by applying basic mathematical statements, methods and computations
PLO 3	[C4] Students are able to analyze simple and practical problems in at least one field of analysis, algebra, modeling, system optimizations and computing sciences
PLO 4	[C5] Students are able to work on a simple and clearly defined scientific task and explain the results, both written and verbally either on the area of pure mathematics or applied mathematics or computing sciences
Course Learning Outcome	
<ol style="list-style-type: none"> 1. Students are able to follow the development and apply Mathematics and able to communicate actively and correctly either oral or written 2. Students are able to explain the basic principles of different calculus to and methods of completion 3. Students are able to explain intelligently and creatively about the significant role of different calculus in the field of related knowledge or other fields. 	
Main Subject	

Backward and forward difference, Newton's interpolation, computing series by using finite difference, Finite difference equations and integrations, and the application of finite difference in solving differential equations.

Prerequisites

Numerical Methods

Reference

1. Richardson, C., H., "An Introduction to the Calculus Finite Differences", Literacy Licencing, 2012.
2. Shochiro Nakamura, "Applied Numerical Methotds with software", Prentice-Hall International, Inc., 1991

Supporting Reference

