



Course Weekly Outline

Course Name: Numerical Analysis

Course Instructor					
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Title					
Course Coordinator					
Course Objective					
Course Description	Numerical Analysis for 2 nd Stage				
Textbook	Richard L. Burden and etc." Numerical Analysis ", 9 th edition, 2014				
References					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	25%	15%	5%	5%	50%
General Notes	-				



Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Direct methods for solving linear system of equation		
2		Simple Gaussian elimination method, gauss elimination method with partial pivoting,		
3		determinant evaluation, gauss Jordan method,		
4		L U decompositions Doolittle's LU decomposition, Doolittle's method with row interchange		
5		Finding Matrix Inverse		
6		Iterative methods for solving linear systems of equations		
7		Jacobin iteration, gauss – seidel method,		
8		Successive over relaxation method (sort method)		
9		Mid-term Exam		
10		Newton-Raphson Method		
11		Runge-kutta Method		
12		Interpolation and the Lagrange Polynomial , Data Approximation and Neville's Method		
13		Numerical Analysis Methods for Differential Equation		
14		Numerical Analysis Methods for Integral Equation		
15		Final Exam		

Instructor Signature:

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