



Course weekly Outline

Course Name: Numerical analysis

Course Instructor					
E-mail					
Title					
Course Coordinator					
Course Objective	Training students on the Numerical methods to solve mathematical problems that CAN NOT be solved by ordinary methods.				
Course Description	Numerical Methods for Computer Applications				
Textbook	1:Calculus , Thomas ,1990,5 th edition 2: The Student Edition of Matlab ' The Language of Technical Computing' Version 5 in 1997.by Duane Hanselman .Prentice-Hall; Inc.				
References	Matlab User's Guide from www.MathWorks .com				
Course Assessments	TermTests	Laboratory	Quizzes	Project	Final Exam
	As (30 %)	(15%)	(5%)	----	50%
General Notes					



Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Sol of Non linear eq. Iteration Method	Matlab sol.1	
2		ex	ex	
3		Sol of Non linear eq. Newton's Method	Matlab sol.2	
4		ex	ex	
5		Ex on Method 1 & 2 together	ex	
6		Numerical integration trapezoidal M.	Matlab sol N.I	
7		Ex	ex	
8		Ex	ex	
9		Sol of Diff. Eq. Euler M (1)	Matlab sol Diff. Eq.	
10		Ex	ex	
11		Ex	ex	
12		Sol of Diff. Eq. Euler M (2) improved	Sol of Dif. Eq Matlab	
13		Ex	ex	
14		Ex	ex	
15		Review	Review	
16		exams	exams	

Instructor Signature:

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