Republic of Iraq The Ministry of Higher Education & Scientific Research



University: Anbar College: Department: Computer Science Stage: 2nd Instructor name Academic status: Qualification: Place of work: University of Anbar

Course Weekly Outline Course Name: Numerical Analysis

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

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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		

Tl	ne Min	Republic of Iraq istry of Higher Education University: Anbar College: Department: Computer Science Stage: 2nd	
	& 12	Scientific Research	
		Approximation and Newrie's Method Qualification:	
	13	Numerical Analysis Methods for Differential Perfeationprk: University of Anbar	
	14	Numerical Analysis Methods for Integral Equation	
	15	Final Exam	

Instructor Signature:

Dean Signature: