University of Baghdad
College of Science for Women
Department of Mathematics
Year:forth

Lecturer Name: Saad Naji Al.azawi
Academic Status: Lecturer
Qualification: ph.D. fractional calculs

Course Summary

Course Instructor	**Saad Naji Al.azawi**
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Title	Electricity and magnetism
Course Coordinator	
Course Objective	The integral equations volterra and fredholm,linear and non line
Course Description	
Textbook	Integeral Equtions and their applications by M.Rahman,2007 witpress
References	The same

Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (50%)	----------	**As (10 %)**	-------	**As (50%)**

Course Weekly Outlines

Week	Topics Covered	Lab. Experiment Assignments
1.	Historical review or integral equations	-------------------------------
2.	Basic definitions	---------------------------
3.	Some applications	
4.	Multiple integrals and single integrals	
5.	Relation between volterra integral equations and initial value problems .	
6.	Relation between Fredholm integral equations and boundary value problems .	
7.	Difinitions and classifications	
8.	Methods of solutions	
9.	Successive approximation method	
10.	Laplace method	
11.	Successive substituation method Adomian decomposition method	
12.	Adomian decomposition method	
13	Series method	
14	Volterra of 1st kind fred holm integral equation	
15	Definitions and classifications	
16	Method of solution	
17	Successive Approxination method	
18	Successive substitution method	
19	Adomian Decomposition method	
20	Modifiel Adomian Decomposition method	
21	Direct computational method	
22	1st Kind Fredholm Integeral Equation	