

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq

The Ministry Of Higher Education
& Scientific Research



University: Baghdad University
College: College of Science for women
Department: Computer Dept.
Stage: First Stage/ First Semester
Lecturer name: Dr. Auras Khalid

Qualification: Ph.D in Mathematics &
Computer Applications

Place of work: College of Science for
women/ Computer Dept.

Syllabus Form

Instructor Name	Dr. Auras Khalid				
E-mail	oras_hameed@yahoo.com				
Course Title	Mathematics 1				
Course Coordinator	1/111CS102				
Course Objectives	It aims to put laws and basic concepts in mathematics starting from the definition of the functions of different kinds and how to solve it passing through the methods of derivation as well as to identify applications of the derivatives.				
Course Description	1-identifying the optimal solution of mathematical equations 2-identifying how to recognize the function from the differential equation 3-studying the applications of derivatives and how to solve 4-studying the partial differential equation and its derivatives 5-studying the sequences and series				
Textbook	Calculus, Anton, Bivens and Davis, 7 th edition, 2002 Any other edition of calculus is necessary to understand the subjects of this stage of study.				
References					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30%		10%	-	60%
General Notes					

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Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1		Definition of function and its different kinds		
2		Graph of functions and its solution		
3		Limits and continuity		
4		The derivatives		
5		Rules of derivation		
6		Rules of partial differential equations		
7		Application of derivatives		
8		Exponential functions, logarithmic and natural logarithmic functions		
9		First exam		
10		Sequences and Infinite series		
11		Mathematical Modeling with differential equations		
12		Inverse of trigonometric functions		
13		Graph of the Inverse of		

		trigonometric functions		
14		Inverse of algebraic functions and its evaluation and graph		
15		Inverse of hyperbolic functions and its evaluation and graph		
16		Second Exam		

Instructor Signature:

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