Republic of Iraq The Ministry of Higher Education and Scintific Resrearch Supervision and Scientific Evaluation Body



College : Shatt Al Arab University College

Department: Power Mechanic Technology Engineering

Leve l: First Semester: First

Lecturrer Name:Jawad Mahoud

Jassim

Academic Status: Lecturar Qualification: Lecturrer at : Shatt Al Arab University College

Course Weekly Outline

	1	Course We		tiine	1	
Course Lecturer	Jawad M	<u> Iahmoud Jas</u>	sim			
e-mail	Jawad.N	<u> Iahmood@sa</u>	-uc.edu.	<u>iq</u>		
Title	Mathem	atics				
Course						
Coordinator						
Course Objective	Teaching the student the basic and advanced					
	_	-		its applications to d	-	
				solve problems and		
			formatio	n in the other scien	tific	
	matei					
Course	Teaching the student the basic and advanced					
Description	principles of calculus and its applications to develop					
	student mental abilities to solve problems and make					
			formatio	n in the other scien	tific	
	mater					
Textbook	Calc	ulus by Tho	mas			
References	Advanced Engineering Mathematics					
Course	Quizzes	Assignments	Report	Midterm Exam	Final Exam	
Assessment	150/	150/	100/	100/	500 /	
	15%	15%	10%	10%	50%	
General Notes		<u> </u>	1			
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Republic of Iraq The Ministry of Higher Education and Scintific Resrearch Supervision and Scientific Evaluation Bodya



College: Shatt Al Arab University

College

Department: Computer Science

Stage: first stage

Lecturrer Name:Khalid Hameed Academic Status:Assistant Lecturar Qualification: Lecturrer at: Shatt Al

Arab University College

Week Date		Topics Covered	Number of Hours	Notes
1	26 /11/2023	Determinants: properties, Cramer's Rule, Applications of Determinants	6	
2	3/12/2023	Vectors: vectors in Space, Unit Vector ,Scalar product, Vector product	6	
3	10/12/2023	Trigonometric Functions and Relations, Graph of Trigonometric Functions	6	
4	17/12/2023	Limits of functions, Algebraic limits, trigonometric limits, Limits at Infinity	6	
5	24/12/2023	Derivative Rules ,Algebraic & Trigonometric Derivatives, Chain Rule	6	
6	31/12/2023	Inverse Trigonometric Functions & their Derivatives. Exponential & Logarithmic Functions & their Derivatives	6	
7	7/1/2024	Hyperbolic & Inverse Hyperbolic Functions & Their Derivatives	6	
8	14/1/2024	Integration, Integral of trigonometric Functions & Exponential Functions	6	
9	21/1/2024	Integral of Hyperbolic Functions, L'Hoptial Rules	6	
10	28/1/2024	Integration Methods: Integration by Parts, Integration by Partial Fractions	6	
11	4/2/2024	Integration by Trigonometric Substitutions	6	
12	11/2/2024	Application of Integration: area under a Curve, Area Between Two Curves	6	
13	18/2/2024	Applications of Integration: Length of the Curve, Surface Area	6	
14	25/2/2024	Applications of Integration: volumes	6	
15	4/3/2024	Numerical integrals: Simpson Rule, Trapezoidal Rule	6	

16	11/3/2024	Preparatory week before Final Exam	6	
	11/5/2024	Treparatory week before I mai Exam		

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Lecturer signature

Head of Department Signature