بسم الله الرحمن الرحيم

Republic of Iraq

The Ministry of Higher Education & Scientific Research

University: Diyala
College: Engineering
Department: Communications
Stage: First year
Lecturer name: Hussein Sh. Mogheer
Qualification: Master
Place of work: Department of Communications

Flow up the implementation of course syllabus

Course Instructor	Hussein Shakor Mogheer				
E-mail	husseinshookor@yahoo.com				
Title	Mathematics I				
Course Coordinator	**4 hours weekly**				
Course Objective	Give the students the fundamentals and principles of mathematic, geometry, and the application of mathematic to engineering				
Course Description	The subject divided in to several chapters, as follow: 1. Chapter One: Basic principles and review. 2. Chapter Two: Derivative and Its applications. 3. Chapter Three: Integration and Its applications. 4. Chapter Four: Transcendental Functions. 5. Chapter Five: Methods of Integrations. 6. Chapter Six: Hyperbolic Functions. 7. Chapter Seven: Matrices. 8. Chapter Eight: Complex numbers. 9. Chapter Nine: Vectors. 10. Chapter Ten: Polar Coordinate.				
Textbook	George B. Thomas, Jr., "Thomas 'Calculus", 12th edition, Addison Wesley, Pearson Education, Inc, 2010.				
Course Assessments	First Term	Mid-Year	2nd Term	Project	Final Exam
	20%	-	20%	-	60%
General Notes	-				

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Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1	01.12.2014	Basic principle and review		
2	15.12.2014	Function and graph		
3	18.12.2014	Absolute values		
4	22.12.2014	Limits and continuity		
5	25.12.2014	The greatest integer function		
6	29.12.2014	Trigonometric function		
7	05.01.2015	Derivative		
8	08.01.2015	Application of derivative		
9	12.01.2015	Maximum and minimum problems		
10	15.01.2015	Integration		
11	19.01.2015	Approximation of definite integral		
12	22.01.2015	Trapezoidal and Simpson's rule		
13	26.01.2015	Application of definite integral		
14	28.01.2015	Transcendental Function		
15	16.02.2015	Mid Year Break		
16	01.03.2015	The inverse of trigonometric function		
17	08.03.2015	Natural logarithm and exponential function		
18	11.03.2015	Methods of integration		
19	18.03.2015	Integration by parts		
20	22.03.2015	Integration by Trigonometric Substitution		
21	25.03.2011	Integration of rational function		
22	29.03.2015	Hyperbolic functions		
23	05.04.2015	Matrices and its properties		
24	12.04.2015	Matrices applications and Cramer's rule		
25	19.04.2015	Complex numbers		
26	22.04.2015	Vectors, and vectors in plane		
27	26.04.2015	Modeling of projectile motion		
28	06.05.2015	Vectors in space		
29	13.05.2015	Dot product and cross product		
30	25.05.2015	Polar Coordinates		

INSTRUCTOR Signature: **Dean Signature:**