Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم

University: Diyala

College: Engineering

Department: Chemical Engineering

Stage: First

Lecturer name: Amal S. Hameed

Qualification: MSc. Mathematics

Place of work: Chemical Eng. Dept.

Flow up of implementation celli pass play

Course Instructor	Amal S. Hameed
E-mail	amalshaker٨١@yahoo.com
Title	Mathematics I
Course Coordinator	Annual
Course Objective	this is a basic lectures for making the student have the fundamentals of mathematics which needed in the applications of next stages
Course Description	The scope of coverage includes General review (coordinates, line eq., slope, conical section) functions, inequalities, intervals, composition of functions, greatest integer function, differentiations, implicit differentiation, application of derivatives, graph of functions, limits, l'hopital Rule, trigonometric function, hyperbolic functions, inverses of them, log and exponential functions, integration and its applications, methods of integration, complex numbers
Textbook	1- R.L. Finney and G.B. Thomas, "Calculus", Addison Wesley (1990). 2- E. Kriezyg " Advanced Engineering Mathematics" (1997). 3- F.L. Hardy " pre-calculus Mathematics", Merrill pub. Com. (1971).

Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (٣٥%)	------	As (٥%)	----	As (٦٠٪)
General Notes	Type here general notes regarding the course				

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place of work: Chemical Eng.Dept.

Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
١	٢٢,٢٥-٩-٢٠١٤			
٢	٢٩-٩,٢-١٠-٢٠١٤			
٣	٦,٩-١٠-٢٠١٤			
٤	١٣,١٦-١٠-٢٠١٤			
٥	٢٠,٢٣-١٠-٢٠١٤			
٦	٢٧,٣٠-١٠-٢٠١٤			
٧	٣,٦-١١-٢٠١٤			
٨	١٠,١٣-١١-٢٠١٤			
٩	١٧,٢٠-١١-٢٠١٤			
١٠	٢٤,٢٧-١١-٢٠١٤			
١١	١,٤-١٢-٢٠١٤	Introduction General review (coordinates, line eq., slope,		
١٢	٨,١٠-١٢-٢٠١٤	conical section)		
١٣	١٥,١٧-١٢-٢٠١٤	functions, inequalities, intervals,		

١٤	٢٢,٢٤-١٢-٢٠١٤	composition of functions, greatest integer function		
١٥	٢٩,٣١-١٢-٢٠١٤	Differentiations and its rules+EXAM		
١٦	٥,٧-١-٢٠١٥	implicit differentiation and applications such as velocity acceleration etc.		
Half – year break				
١٧	١٦,١٨-٢-٢٠١٥	application of derivatives, graph of functions		
١٨	٢٤,٢٥-٢-٢٠١٥	limits, l'hopital Rule,		
١٩	٣,٤-٣-٢٠١٥	trigonometric function,		
٢٠	١٠,١١-٣-٢٠١٥	inverse trigonometric function,		
٢١	١٧,١٨-٣-٢٠١٥	hyperbolic functions,		
٢٢	٢٤,٢٥-٣-٢٠١٥	Inverse hyperbolic functions,		
٢٣	٣١-٣,١-٤-٢٠١٥	log and exponential functions		
٢٤	٧,٨-٤-٢٠١٥	integration and its applications		
٢٥	١٤,١٥-٤-٢٠١٥	Methods of integration		
٢٦	٢١,٢٢-٤-٢٠١٥	Methods of integration		
٢٧	٢٨,٢٩-٤-٢٠١٥	Methods of integration		
٢٨	٥,٦-٥-٢٠١٥	Methods of integration		
٢٩	١٢,١٣-٥-٢٠١٥	Methods of integration		
٣٠	١٩,٢٠-٥-٢٠١٥	Methods of integration		
٣١	٢٦,٢٧-٥-٢٠١٥	complex numbers		

INSTRUCTOR Signature: **Dean Signature:**