

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Mathematics I		Module Delivery
Module Type	Basic learning activities		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	PRE101		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Ghufran Faris Abdullah alrahhawi	e-mail	ghufranalrahhawi@uomosul.edu.iq
Module Leader's Acad. Title	Ass.Lecture	Module Leader's Qualification	Ms.c
Module Tutor		e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1/06/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	The objective of the course is to present straight line, derivative, Limit, the integral, application to definite integral, the matrix, application of matrix, grammer method to solving linear system, hyperbolic Functions and derivatives and Integrals of hyperbolic functions.
Module Learning Outcomes	It is expected from the student who passes this module learn the following topics: 1. Straight line 2. Derivative

مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 3. Limit 4. Integral , application, and method of integral. 5. The Matrix and its operations 6. Application of matrix. 7. Hyperbolic Functions 8. Derivatives and Integrals of hyperbolic functions. 		
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. <ol style="list-style-type: none"> 1. Straight line slope, types, equation of straight line. [4hrs.] 2. Derivative derivative of various functions, chain rule, implicit differentiation , applications [12 hrs.] 3. Limit Limit of different functions, Hopital's rule [4hrs.] 4. The integral definite and indefinite integrals. [4hrs.] 5. Application to definite integral Area – Volumes – arc length. [16hrs.] 6. The Matrix The Matrix and its operations, application of matrix, grammer method to solving linear system. [12hrs.] 7. hyperbolic Functions. [4hrs.] 8. derivatives and Integrals of hyperbolic functions. [4hrs.] 		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students The usual theoretical presentation method using the writing board and depending on the method (how and why) of the subject and according to the curriculum of the subject.		
Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	150		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	3	20% (20)	4,6 and 13	LO #1,#2,#6 and #11
	Assignments	8	10% (10)	2 and 12	LO #2, #4 ,#5,#6,#7,#11,#12.#13 and #15
	Projects / Tutorial	1	10% (10)	Continuous	All
	Report				
Summative assessment	Midterm Exam	2hr	10% (10)	10	LO #1 - #10
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Straight line: slope, types, equation of straight line
Weeks 2-4	Derivative: derivative of various functions, chain rule, implicit differentiation, applications .(Quiz1)
Week 5	Limit: Limit of different functions, Hopital's rule
Week 6	The integral: definite and indefinite integrals. (Quiz 2)
Week 7-10	Application to definite integral: Area – Volumes – arc length . (Mid Exam)
Week11	The Matrix and its operations.
Week12	The determinants and its applications – inverse matrix by cofactor.
Week13	Grammer method to solving linear system. (Quiz3)
Week14	Hyperbolic Functions .
Week15	Derivatives and Integrals of Hyperbolic Functions.
Week16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)		
المنهاج الاسبوعي للمختبر		
	Material Covered	
Week 1		
Week 2		
Week 3		
Week 4		
Week 5		
Week 6		
Week 7		

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
<p>Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				