

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Mathematics for Business		Module Delivery	
Module Type	B		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	BA1104			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	1	Semester of Delivery		1
Administering Department	Business Administration	College	SAUC	
Module Leader	Alia Majed Dakhil		e-mail	alia.majed.dakhil@sa-uc.edu.iq
Module Leader's Acad. Title	Assistant Lecturer		Module Leader's Qualification	M.Sc.
Module Tutor	Alia Majed Dakhil		e-mail	alia.majed.dakhil@sa-uc.edu.iq
Peer Reviewer Name	Prof. Dr. Muhammed Abood Taher		e-mail	
Scientific Committee Approval Date	2024/9/1		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	1- This definition provides the definition of some basic principles in the mathematics of tasks 2- Introducing them to the periods of application of these principles and algebraic operations on sets 3- Introducing them to functions, ends, linear equations and methods of solving them. 4- Introducing them to the periods of application of these principles and algebraic operations on sets
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Understand the concept of a set and its elements. In addition to learning about finite and infinite sets, empty sets, equal and partial sets 2. Learn how to solve the difference of sets, the inverse difference, and the rules of group distribution 3. Understand the concept of limit and its importance in mathematics 4. Identify the ends when approaching a certain number, as well as the ends when approaching infinity 5. Understand the concept of function and its types (linear functions, quadratic functions, polynomial functions, exponential functions) 6. The ability to represent a function graphically and understand the relationship between variables 7. Understand the concept of matrix and its types (square, rectangular, etc.). 8. Learn how to organize elements within an array. 9. Understand the concept of linear equation and its general form 10. The ability to represent linear equations graphically and understand the relationship between variables. 11. Understand the concept of differentiation and its role in mathematics 12. Learn about derivatives and how to calculate them. 13. Understand the concept of integration and its role in mathematics 14. Learn about definite and indefinite integration and when to use each.
Indicative Contents المحتويات الإرشادية	<p>The contents of the guidance study include the outlines that aim to guide and plan the educational process. These contents generally include</p> <ol style="list-style-type: none"> 1. Educational objectives 2. Main concepts 3. Curricula 4. Educational materials 5. Educational activities 6. Evaluation methods 7. Academic guidelines <p>These contents are a roadmap that helps the teacher and student understand the progress of the study material and ensure the achievement of the intended educational objective.</p>

Total hours = 147 = Self-study hours - (Exam hours) = 150 - 3 = 147 hours
(Timetable hours x 15 weeks)

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

Teaching and learning methods

- 1- Giving lectures.
- 2- Discussion inside the hall.
- 3- Solving exercises inside the hall.
- 4- Discussing mathematical problems inside the hall.

Evaluation methods:

- 1- Daily participation of students through the method of explaining the subject.
- 2- Daily tests.

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	7
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		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
Week	Material Covered
Week 1	Sports groups
Week 2	Sets and mathematical operations on them
Week 3	The purpose
Week 4	The radical purpose and the purpose of both sides
Week 5	Functions
Week 6	Functions
Week 7	Mid- term Exam
Week 8	Matrices
Week 9	Mathematical operations on matrices
Week 10	Mathematical operations on matrices
Week 11	Mathematical equations
Week 12	differentiation
Week 13	differentiation
Week 14	integration
Week 15	integration
Week 16	Final Exam

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

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

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Principles of Mathematics / Written by: Dr. Muhammad Al-Qadi and Mr. Ahmed Abu Bakr	Yes
Recommended Texts		
Websites		

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

Note: Decimals above or below 0.5 will be rounded to the highest or lowest full mark (e.g. a mark of 54.5 will be rounded to 55, while a mark of 54.4 will be rounded to 54). The University has a zero tolerance policy for 'near-pass failures', so the only adjustment to marks awarded by the original examiners will be the automatic rounding described above.