MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**General Mathematics**			**Module Delivery**	
Module Type	**Basic learning activities**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	AC1103				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	ACC		**College**	CAE	
Module Leader	Khalid Abdulkalek Abdu		**e-mail**	khalid.abdu@aliraqia.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Khalid Abdulkalek Abdu		**e-mail**	khalid.abdu@aliraqia.edu.iq	
Peer Reviewer Name	عمر خزعل خضير		**e-mail**	omar.kh.khudhair@aliraqia.edu.iq	
Scientific Committee Approval Date	2024/10/20		**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. Introducing the student to the foundations and principles of general mathematics. 2. Providing the student with different topics about mathematics that constitute a starting point for penetrating into an advanced study of mathematics. 3. Clarify the importance of mathematics and its role in accounting. 4. Enable the student to use mathematics methods in solving accounting issues.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. 1. The student should know the most important principles and basic concepts of mathematics. 2. Recognize basic definition of functions, properties of functions, types of functions, graph of the function. 3. The student should comprehend applications of functions in accounting field. 4. Identify derivation, derivation by definition and derivation rules. 5. The student should understand derivative applications which includes marginal coast, marginal revenue and demand flexibility. 6. Figure out derivatives from higher ranks, curve analysis, increasing and decreasing functions, maximum values. 7. The student should realize applications of maximum values in accounting area. 8. The student should interpret mathematical concepts in line with accounting issues. 9. The student should apply mathematical concepts in all accounting fields. 10. The student has the skills to identify the relationship between mathematical concepts and different fields of accounting. 11. The student's ability to produce new mathematical ideas relevant to accounting topics.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A - Functions Basic definition of functions, properties of functions, applications of functions in Accounting, practical exercises in Accounting. [SSWL=12 hrs.]. Types of functions, graph of the function, applications of graph of the functions, general exercises on functions, their types and applications in the accounting field, practical exercises in Accounting. [SSWL=12 hrs.].

	Part B - Derivative Derived by definition, derivation rules, general exercises on derivative and differentiation rules. [SSWL=12 hrs.] Derivative applications, marginal coast, marginal revenue, demand flexibility, general exercises. [SSWL=12 hrs.] Derivatives from higher ranks, curve analysis, increasing and decreasing functions, maximum values, practical examples, practical exercises in Accounting. . [SSWL=12 hrs.]

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	1. Cooperative learning strategy: Divide students into small groups to prepare reports. 2. Face-to-face learning strategy: Traditional lectures. 3. Online learning strategy: Using e-learning platforms (Google class room). 4. Hybrid learning strategy: A combination of traditional and online education.

Student Workload (SWL)
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	5.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	4 , 10	LO #1 to #3 , LO# 4 to 10
	Assignments	2	20% (10)	7 , 13	LO #1 to #4 , LO# 5 to 10
	Projects / Lab.	N/A			
	Report	1	10% (10)	12	LO #1 to #11
Summative assessment	**Midterm Exam**	2hr	10% (10)	8	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Basic definition of functions, properties of functions, applications of functions in Accounting
Week 2	Practical exercises of functions in Accounting area.
Week 3	Types of functions, graph of the function, applications of graph of the functions
Week 4	General exercises on functions, their types and applications in the accounting field
Week 5	Derivative. derived by definition, derivation rules
Week 6	General exercises on derivative and differentiation rules
Week 7	Derivative applications, marginal coast, marginal revenue
Week 8	**Mid-term Exam**
Week 9	Derivative applications, demand flexibility
Week 10	General exercises on marginal coast, marginal revenue, and demand flexibility
Week 11	Derivatives from higher ranks, curve analysis
Week 12	**Discussing and evaluating reports**
Week 13	Increasing and decreasing functions, maximum values
Week 14	Practical examples
Week 15	Practical exercises in Accounting field
Week 16	**Preparatory week before the final Exam**

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

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	**Principles of Mathematics** **written by Dr. Dhafer Hussein Rashid**	Yes
Recommended Texts	**Mathematics and its applications in administrative and economic sciences** **Prepared by: Dr. Mahmoud Mahdi Al-Bayati Dr. Dalal Al-Qadi**	No
Websites	https://www.youtube.com/@user-hq4lo4lb8m	

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: 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.