

Course Description Form

1. Course Name:					
Advanced calculus II					
2. Course Code:					
MATH 211					
3. Semester / Year:					
second semester / the second stage					
4. Description Preparation Date:					
2024					
5. Available Attendance Forms:					
6. Number of Credit Hours (Total) / Number of Units (Total)					
4 hours per week					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. muna saleh Email: muna.saleh@nahrainuniv.edu.iq					
8. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> • Introduce the basic cocepts advance calculus 		
9. Teaching and Learning Strategies					
Strategy	1- Giving concepts in lectures 2- Various example 3- Daily and monthly exam				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation methd

1	4		Introduction to Integratio	Theoretic lectures	
2	4		Double integrals over rectangle regions	Theoretic lectures	
4-3	8		Double integrals over nonrectangle regions	Theoretic lectures	
6-5	8		Area	Theoretic lectures	
8-7	8		Changing to polar coordinates	Theoretic lectures	
9	4		Triple integrals	Theoretic lectures	
10	4		Exam	Theoretic lectures	
11	4		Vector fields	Theoretic lectures	
12	4		Surface integrals	Theoretic lectures	
13	4		Exam	Theoretic lectures	
14	4		Line integrals	Theoretic lectures	
15	4		theorems	Theoretic lectures	

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if an	Thomas' Calculus 14th Edition
Main references (sources)	University Calculus with Analytic Geometry, by J Morry
Recommended books and references (scientific journals, reports...)	Calculus with application brief version
Electronic References, Websites	Google.com

