

Course Description Form

1. Course Name:					
Mathematical Analysis 2					
2. Course Code:					
3. Semester / Year:					
Second semester 2024-2025					
4. Description Preparation Date:					
9/10/2024					
5. Available Attendance Forms:					
Traditional attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45/3					
7. Course administrator's name (mention all, if more than one name)					
Name: Rifaat Saad Abduljabbar					
Email: drrifaat1974@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> Introducing the student to mathematical concepts related to mathematical analysis. Training the student to deal with abstract mathematical concepts. 			
9. Teaching and Learning Strategies					
Strategy	Traditional and e-lectures				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Limit of functions	Presenting lecture	Daily and monthly tests
2	3		Differentiation	Presenting lecture	Daily and monthly tests
3	3		Examples about derivative	Presenting lecture	Daily and monthly tests

4	3		Applications on derivative I	Presenting lecture	Daily monthly tests
5	3		Min-Max values of functions	Presenting lecture	Daily monthly tests
6	3		Applications on derivative II	Presenting lecture	Daily monthly tests
7	3		Physical applications	Presenting lecture	Daily monthly tests
8	3		Upper and Lower sum	Presenting lecture	Daily monthly tests
9	3		Definition of integration	Presenting lecture	Daily monthly tests
10	3		Definition of integration	Presenting lecture	Daily monthly tests
11	3		Riemann integral	Presenting lecture	Daily monthly tests
12	3		Riemann integral	Presenting lecture	Daily monthly tests
13	3		Measure theory	Presenting lecture	Daily monthly tests
14	3		Measure theory	Presenting lecture	Daily monthly tests
15	3		Labesgue integral	Presenting lecture	Daily monthly tests

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 any)	Foundations of mathematical analysis A.Ghassan
Main references (sources)	
Recommended books and references (scientific journals, reports...)	

