Course Description Form

1. **Course Name:**
Advanced calculus I

2. **Course Code:**
MATH 210

3. **Semester / Year:**
First semester / the second stage

4. **Description Preparation Date:**
2023

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	• **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		Sequences and Infinite Series	Theoretic lectures	
2	4		Type of series	Theoretic lectures	
4-3	8		Test for convergence of series	Theoretic lectures	
6-5	8		Power Series	Theoretic lectures	
8-7	8		Taylor's and Maclaurin series	Theoretic lectures	
9	4		Examples	Theoretic lectures	
10	4		Exam	Theoretic lectures	
11	4		Vector in Space.	Theoretic lectures	
12	4		(Dot) and cross products of tw vectors	Theoretic lectures	
13	4		Exam	Theoretic lectures	
14	4		Equation of lines,	Theoretic lectures	
15	4		Partial derivatives.	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**