

Course Description Form

1. Course Name:	
Geometric Mathematics	
2. Course Code:	
GE302	
3. Semester / Year:	
2025-2024	
4. Description Preparation Date:	
18-12-2024	
5. Available Attendance Forms:	
weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90	
7. Course administrator's name (mention all, if more than one name)	
Name: muayad abdulhusien galtae Email: muayad535@gmail.com	
8. Course Objectives	
Course Objectives 	- The aim of the unit is to prepare the student to deal with engineering mathematics topics. In addition to teaching the student the basics of differential equations - How to solve differential equations in several ways - Knowing partial differential equations and how to solve them
9. Teaching and Learning Strategies	
Strategy	The main strategy that will be adopted in delivering this unit is to encourage student participation in mathematics activities, while at the same time improving and expanding their critical thinking skills. This will be achieved through classroom and laboratory settings and by considering the type of external research that includes some mathematical problems that interest the student.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method
1-3		Student will understand	Concepts of differential Equations, General form of solution	Theoretical
4-8		Student will understand	First-degree first-order equations, Separable-variable and Exact equations	Theoretical
9-12		Student will understand	Inexact, integrating factor and Linear equations	Theoretical
13-16		Student will understand	Homogeneous, Isobaric Bernoulli's equations	Theoretical
17-20		Student will understand	Problems and applications	Theoretical
21-24		Student will understand	Solution from complementary function and particular integral Laplace transform method	Theoretical

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

[illegible]