

Course Description Form

1. Course Name:					
Computer Graphics					
2. Course Code:					
COMP253					
3. Semester / Year:					
2 st semester/2 nd Year					
4. Description Preparation Date:					
23/3/2024					
5. Available Attendance Forms:					
Presences					
6. Number of Credit Hours (Total) / Number of Units (Total)					
60 hours (30 theoretical + 30 practical)/3 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Ass. Lect. Mohammed Qasim Ali					
Email: mohammed.q.ali@nahrainuniv.edu.iq					
8. Course Objectives					
Course Objectives	<ul style="list-style-type: none"> • Understand the concept of graphic and its importance and applications. • Learn about the graphics environment in MATLAB and how to use it. • Using MATLAB plotting functions to sketch geometric shapes. • Methods of plotting mathematical equations. • Sketch the three-dimensional curves, surfaces and objects. 				
9. Teaching and Learning Strategies					
Strategy	1. Lectures 2. Practicality 3. Exercises (homework)				
10. Course Structure(theoretical)					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1,2	4	Understanding the course requirements	MATLAB Graphical Environment	Lectures, Practical and homework	Quizzes, midterm exams, homework, attendance and participate during lecture
3,4,5	6		Plotting functions and its optional arguments		
6,7,8	6		Plotting the mathematical equations		
9,10,11	6		Creating 2D Geometric shapes		
12...15	8		Sketch 3D (curves & surfaces) and objects and Shapes		

10. Course Structure (Practical)					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1,2	4	Understanding the course requirements	The (plot) command	Lectures, Practical and homework	Quizzes, midterm exams, homework, attendance and participate during lecture
3,4,5	6		Format Plotting Figure Commands		
6,7,8	6		fplot, ezplot commands. Graphic Properties & Creating 2D shapes		
9,10,11	6		Other 2D plotting Commands and find Intersection & tangent points		
12...15	8		3D Plotting (sketch curves, surfaces and other objects)		
Lab. Teaching stuff		م.م محمد قاسم علي / م.م. شيماء عبدالستار / م.م. رقية سعدي / م.م. ياسمين معين / م.م. بتول امخيلف / م.م. نبأ حسين / م.م. فرح لطيف جوي			
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)					
Main references (sources)			MATLAB: An Introduction with applications 4th edition Amos Gilat 2011		
Recommended books and references (scientific journals, reports...)			College library		
B–Electronic references, Internet sites...			MATLAB Documentation (mathworks.com)		