## **Course Description Form**

1. Course Name:											
Programming											
2. Course Code:											
COMP252											
3. Semester / Year:											
1 <sup>st</sup> semester/2 <sup>nd</sup> 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)											
			hammed Qasim Ali								
	Email:	mohammed.	q.ali@nahrainuniv.edu.iq								
8.	Course	Objectives									
Course Objectives <ul> <li>the student learns to write program code for solving mathematical problem or any other problems.</li> <li>The usage MATLAB functions to write the program code</li> <li>Solve calculus problems</li> </ul>											
9.	Teachi	ng and Learnir	-								
Strateg	У	1. Lecture 2. Practica 3. Exercise									
10. C	ourse S	Structure(theore	etical)								
Week Hours Requir		Required	Unit or subject name	Learning	Evaluation						
		Learning		method	method						
		Outcomes									
1,2	4	Flowcharts and Algorithms Lectures, Quizzo									
3	2		Programming Using Script Files	practicalexams,andhomework,homeworkattendance							
4	2		Input & Output Commands								
5	2	Understanding	Relational And Logical Operators								
6	2	the	Conditional Statements		and participate during lecture						
7,8 9,10	4	course requirements	Conditional Loops User-Defined Functions Anonymous								
	4	· · · · · · · · · · · · · · · · · · ·	Functions								
11	2		Subfunctions	-							
12,13 14,15	4		Symbolic Math Programming Calculus Programming								
					<u> </u>						

10. Course Structure(practical)									
Week	Hours	Required	Unit or sul	oject name	Learning	Evaluation			
		Learning			method	method			
		Outcomes							
1,2	4		"input" & "	and its properties disp" Statements		Quizzes, midterm			
3	2	Understanding the course requirements	-	statement and its properties					
4	2		Relational Op ("and", "or" in MATLAB	erators and Logical . statements)					
5	2		<pre>{if - elseif - else - end} and {switch} statements   {for loop} and {while loop} statements with {break} statement usage   Write User-Defined Functions and Anonymous Functions in MATLAB   MATLAB Subfunctions</pre>		Lectures, practical homework	exams, homework, attendance and participate during			
6	2								
7,8	4								
9,10	4								
11	2	-		ariables and Expressions d "syms" statements on Functions	-	lecture			
12,13	4			ssions and Equations with					
14,15	4		Calculus programming using {limit, diff, and int} statements						
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									
Require	ed textbo	oks (curricular b	ooks, if any)						
Main references (sources)				MATLAB® An Introduction with Applications (4th.ed Amos Gilat @ 2011					
	imended ific journa	books and als, reports…)	references	College library					
Electro	nic Refei	rences, Websites		MATLAB Documentation (mathworks.com)					