Course Description Form

1.	Course Name:	
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Mathematic -1

2. Course Code:

MATH130

3. Semester / Year:

First course 2023-2024

4. Description Preparation Date:

1/9/2023

5. Available Attendance Forms:

presence

6. Number of Credit Hours (Total) / Number of Units (Total)
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45 hours /2 units

7. Course administrator's name (mention all, if more than one name) Name: Shamil Mohammed Saleh Hassan Email: eng.sh.hassn@uomosul.edu.iq

8. Course Objectives

Course Objectives	 The student uses understanding and of
	basic concepts of engineering mathematics
	 So that the student can develop his
	mental abilities when solving exercises
	and making connections with information
	to reach a solution and benefit from it in
	other transactions .

9. Teaching and Learning Strategies Strategy - Interactive lecture - Brainstorming - Dialogue and discussion - Dialogue and discussion - Assigning tasks 10. Curse Structure Week Hours Required Unit or Learning Evaluation

		Learning	subject name	method	method
		Outcomes			
1	3Theoretical	a12:Knowled Of graphing functions laws of logarithms, and asian Function laws	Types functions (exponential and logarithmic function	presence	Quiz discussion
2	3Theoretical	a37:Knowledge the laws of triangles and how to slove algebraic functions	Trigonometri Function and algebraic function	presence	Quiz discussion
3	3Theoretical	a3:Knowledge o Trigonometric facts and Their uses in engineering mathematics	Trigonometric facts, continuation of topic	presence	Quiz discussion
4	3Theoretical	a12:Know how t find the the equation of a line and a slop	Equation line and slope	presence	Quiz discussion
5	3Theoretical	a37:Learn abo The rules of the derivative and the derivate ive of algebraic functions	Derivative (derivative rules and their applications in algebraic functions)	presence	Quiz discussion
6	3Theoretical	c24:Types derivatives (algebraic functions)	Solving exercises	presence	Quiz discussion

7	3Theoretical	a37:Rules for	Derivative	presence	Quiz
		solving	trigonometri		discussion
		derivative	functions		
		trigonometric			
		functions			
8	3Theoretical	a12:Derivative	Derivative of	presence	Quiz
		trigonometric	logarithmic		discussion
		functions	functions		
9	3Theoretical	c23:How to slov	Complement	presence	Quiz
		the derivative	of		discussion
		logarithmic	the derivative		
		functions	logarithmic		
			functions		
10	3Theoretical	a12:Know the	Derivative	presence	Quiz
		rules for solving	exponential		discussion
		the derivateive	functions		
		of exponential			
	0.571	functions			
11	3Theoretical	a3:Learn how	Derived from	presence	Quiz
		Solve higher	the		discussion
		Order	highest order		
10	2001	derivatives			0.1
12	3 I heoretical	C24:Derived from	Derived from	presence	Quiz
		I ne nigner	the		alscussion
12	2Th corotical	ranks	Applications	n nocon co	Ouiz
15	STREOTELICAL	Volocity and	applications	presence	Quiz
		accoloration	dorivativo		uiscussion
		using	Ispeed		
		derivative	And		
		ucrivative	acceleration		
14	3Theoretical	a37:Inflection	Applications	presence	Ouiz
	britebretieur	noint	to the	presence	discussion
		point	derivative		aiseassion
			the		
			inflection		
			points)		
15	3Theoretical	a57:Learn how t	Complement	presence	Ouiz
		find the upper	applications	1	discussion
		and lower	To the		
		inflection points	derivative		
		•	(points		
			inflection)		
			-		

11.	Course Evaluation				
5% sho 5% sho 15% fo 15% so Total 4 Final e Final g	5% short test 5% short test 15% for the first semester exam 15% second semester exam Total 40% Final exam 60% Final grade 100%				
Required textbooks (curricular books, if any)			. Ma , ac Ali Ma And Pro /Al	athematics for the s lministration and e Aziz Ali/Assist thematics, Univers d Dr. Ali Al-Hasswa ofessor of Mathema l-Mustansiriya Univ	first grades economics 1980, ant Professor ity of Mosul n/Assistant atics versity
Main re	eferences (sources)		edit	Engineerring Ma tion, John Bird	athematics,fourth
Recom	mended books and	references (scie	ntific		
journal	s, reports)				
Electronic References, Websites					

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مدرس المادة النظري

م. شامل محمد صالح حسن

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رتيس قسم المطان والآلات الزراعية أ.م.ثوقل عيسى محيميد



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رنيس اللجنة العلمية أ.د. أركان محمدأمين صديق

