		Cours	e Description Form				
1. Course Name: geographic information systems ng							
2 60	unas Cadas C						
2. 0	urse Code: C	SIMIM3212					
3 . Sei	nester / Yea	r: 2st semeste	er / 2024-2025				
4 . De	scription Pre	eparation Date	:: Feb. 2025				
5. Av	5. Available Attendance Forms:						
6 Nu	mber of Cred	lit Hours (Total) / Number of Units (Total)				
56		nt 110015 (10tal					
7. Co	urse admini	strator's name	e (mention all, if more than one name)				
Na Em	Name: Lucturer . Dr. Ali Adel Saeid						
EII	ian: an.a.sae	la@uotecnnoid	Jgy.edu.iq				
8. Co	urse Objecti	ves					
Course	1-Understi	ng the concepts	s of geographic information systems				
Objective	s	·.1 1					
	2- Dealing	with geograph	ical sources such as paper maps, aerial photographs, satellite phot	gra			
9. Tea	aching and I	Learning Strate	egies				
Strategy	Strategy Books, resources (internet and library), lectures reinforced with an illustrative example. The present practical ideas to students (data show, electronic board)						
10. Cour	se Structure)					
Week	Hours	Required	Unit or subject name				
		Learning					
		Outcomes					
1	2 hrs classroom +2 hrs lab	1,3,5,6,7	Introduction, to define GIS				
2	2 hrs classroom +2 hrs lab	1,3,5,6,7	GISystem , GScience , GIS application				
3	2 hrs classroom +2 hrs lab	1,3,5,6,7	The real world and representation of it				

4	2 hrs classroom +2 hrs lab	1,3,5,6,7	Models and modelling. Maps, database	
5	2 hrs classroom +2 hrs lab	1,3,5,6,7	Spatial database and spatial analysis	
6	2 hrs classroom +2 hrs lab	1,3,5,6,7	Computer representation of geographic information	
7	2 hrs classroom +2 hrs lab	1,3,5,6,7	Vector representation	
8	2 hrs classroom +2 hrs lab	1,3,5,6,7	Topology and spatial relationships	
9	2 hrs classroom +2 hrs lab	1,3,5,6,7	Representation of geographic fields	
10	2 hrs classroom +2 hrs lab	1,3,5,6,7	Representation of geographic objects	
11	2 hrs classroom +2 hrs lab	1,3,5,6,7	GIS and spatial databases Linking GIS and DBMS	
12	2 hrs classroom +2 hrs lab	1,3,5,6,7	Spatial database functionality Spatial referencing	
13	2 hrs classroom +2 hrs lab	1,3,5,6,7	Coordinate systems Map projections	
14	2 hrs classroom +2 hrs lab	1,3,5,6,7	point data transformation, Interpolating discrete data, Interpolating continuous data	
15	2 hrs classroom +2 hrs lab	1,3,5,6,7	Course Exam	
11.Co	ourse Evaluatio	on in the second s		
Final E	xam (60%) Qui	izzes (10%) La	boratory (15%) Term Tests (15%)	
12.Le	earning and Tea	aching Resourc	ces	
Require	ed textbooks (d	curricular books	s -	
any)			nrinsplies of augraphic information systems	
			Princprice of SuStaprice information systems	
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Electronic Refere	ences, Websites	-https://www.esri.com/en-us/home -https://www.esri.com/en-us/what-is-gis/overview#:~:te %20system(s)%2C,what%20things%20are%20like %20there.(kt=G€