Course Description Form

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	. Course Coo	le;				
	V120	V		The same		
	. Semester /					
	fall semester					
		Preparation Date:				
	/ 2 / 2024	Name of the second seco				
5		Attendance Forms:			Mark and Calle	
	Attendance					
6		Credit Hours (Total) / Number of				
	The total:	number of hours is 60 hours 1Theo	retical + 3 practical / 2.5 un	its		
. 7	. Course adr	ministrator's name (mention all, if n	nore than one name)			
		Karam Ali Younus ALtaee				
		am.youns@uomosul.edu.iq				
	Name: Mu	hammad Samir Idris				
{	3. Course C	Objectives				
theo	retical:	Luci Caraman and Caraman Caram	Practical:			
- De	veloping the s	student's ability to deal with	-Developing the student's	ability to deal with		
scie	ntific and tech	nical means	multiple media.			
- De	veloping the s	student's ability to deal with the	- Developing the student's	ability to	dialogue and	
	rnet		discuss			
		student's ability to deal with				
	ultiple media.					
		student's ability to dialogue and				
200	cuss					
		student's ability to deal				
		he field the job.				
	9. Teaching	g and Learning Strategies				
Stra	itegy	-Interactive lecture, Brainstormin	g,			
		- Dialogue and discussion,				
		- Assigning tasks and reporting				
		- Assigning group work to reveal	leadership skills			
10.	Course Str	ructure				
W	Hours	Required Learning Outcomes	Unit or subject name	Learn	Evaluation	
ee	0.027	Survey Service Constitution of the		ing	method	
k				metho		
				d		
1	1 theoretical	theoretical:	" theoretical;	S. AUGUSTA	Exams,	
	3 Pract.	al: A historical overview of sur-		-Auditor	Homework,	
		(the science of surveying is known		methods	Reports	
		are the types of surveying, surveying	g, Identify surveying devices		-	
		units of measurement)		writing o		
		practical:		The		
ora es		a9: Explains (settlement balance)		blackboa		

		a10: Explains (leveling screws) a11: Explains (the pillar) a12: Understand (endoscope)		-Direct dialogue style Practical Assignin tasks and repo	
2	1 theoretical 3 Pract	theoretical: a2: Familiar with drawing standards, t types, and methods of using them practical: b4: apply (use tape) b5: Use (the measuring wheel) b6: Explains (the use of signs)	Theoretical: drawing scales practical: Tools for direct measuring distances	Theory: -Auditor	Exams, Homework, Reports
3	1 theoretical 3 Pract	theoretical: c1: Calculates (methods for estimating lengths of distances - sources of measu distances, direct measurement methods practical a13: Explains (the use of sig Explains (the use of signs) a14: Explains (the use of arrows) a15: Explains the use of wedges	Direct measurement distances practical:	theoretic -Auditor	Homework, Reports
4	1 theoretical 3 Pract	theoretical: b1: The measurement of distances applied (what are the types of measurement and tape - mention the accessor for direct measurement with the chain tape) practical: a16: Concerned with (measuring horizontal distance on flat land)	practical: Measuring horizontal	theoretic -Auditor	Exams, Homework, Reports
5	1 theoretical 3 Pract	theoretical: c2: Calculates (measuring horizo distances on flat land) practical: b7: Contributes to the application of	theoretical; Measuring horizontal distances practical; Measuring horizontal	theoretic	Exams, Homework, Reports

		measuring horizontal distance on inclir lands (terraces).	distances on sloping terrai	The blackboa -Direct dialogue style Practical Assignin tasks and repo	
6	1 theoretical 3 Pract	theoretical: c3: Calculate the horizontal distance sloping terrain (angle method - terr method - right triangle method) practical: b8: Measures (an obstacle that prevents monitoring but does not prevent measurement (ground elevation))	distances on sloping terrai practical: Measure distances across obstacles	methods -Style of writing of The blackboa -Direct dialogue style Practical Assignin tasks and repo	Homework, Reports
7	1 theoretical 3 Pract	theoretical: a7: Describes (what are its sour number of types, mention its treatment practical: b9: measures (an obstacle that prevents measurement, does not prevent monitoring, and cannot be circumvente (river, watercourse))	measuring distances practical: Measure distances across obstacles	methods, -Style of writing of The blackboa -Direct dialogue style Practical Assignin tasks and repo	Homework, Reports
8	1 theoretical 3 Pract	theoretical: A5: Explains (an obstacle that prevent monitoring but does not prevent measurement (ground elevation) - obstacle that prevents measurement does not prevent monitoring and can circumvented (the wide hole, small lak the edges of large lakes and ponds)) practical: b10: measures (an obstacle that prevent measurement and monitoring and can circumvented (rock, lake))	obstacles practical: Measure distances across obstacles	theoretic	Roporto
9	1 theoretical 3 Pract	theoretical: a6: Explains (an obstacle that prevenue measurement, does not prevenue measurement)		theoretic	Exams, Homework, Reports

10	1 theoretical	monitoring, and cannot be circumver (river, watercourse, trenches) - an obstathat prevents measurement and prevents monitoring (building, protruding rock) practical a17: Explains (exploring the area) a18: Explains (selection of stations) b11: applied (marking stations) b12: Apply to use (measure distances	Chain scanning steps theoretical:	-Style of writing of The blackboa -Direct dialogue style Practical Assignin tasks and repo theoretic	
	3 Pract	a7: Describes (control and investigal lines, survey steps, field notebook) practical: a19: Identify (a diagram of the sur lines and the name of the site) a20: Verify (date of field work car out) a21: Write (the names of the field work team	practical: Contents of the field notebook	methodsStyle of writing of The blackboar-Direct dialogue style Practical Assignin tasks and repo	
11	1 theoretical 3 Pract	theoretical: b2: I implement (series mapping meth- a scientific visit to the Department Roads and Bridges) practical: b13: Draw (straight boundaries with obstacles within the space) b14: Draw (straight boundaries with obstacle inside the space) b15: Draw (non-straight boundaries vi no obstacles within the space) b16: Draw (non-straight boundaries vi an obstacle inside the space)	practical: Chain scanning methods	theoretic -Auditor methods -Style of writing o The blackboa -Direct dialogue style Practical Assignin tasks and repo	Homework,
12	1 theoretical 3 Pract	theoretical: c4: It works (the basis of measurem what are the optical devices) practical: a22: Learn (the board and the triple rule) a23: Learn (orientation ruler and draw board) a24: Rivet (leveling bubble and scale ruler)	distances practical : Plane plate parts		Topone

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practical: cl: applied (use tachometer) c2: The use of (theodolite) is applied. ldirect measuring dev writing c The blackbos -Direct dialogue style Practical Assignin tasks and repo 14	13		c5: implements		Indire	ect measurement	-Auditor	Homework
14 1 theoretical 3 Pract a 25: Learn (an error in the length instrument and failure to adjust measuring line) a 27: It records (an error in recording da a difference in the intensity of pulling tightening the measuring instrument, as a difference in theoretical: b 3 Pract 3 Pract 3 Pract 4 theoretical: a 27: Learn (an error in the length of instrument and failure to adjust measuring line) a 27: It records (an error in recording da a difference in the intensity of pulling tightening the measuring instrument, as a difference in the intensity of pulling tightening the measuring instrument, as a difference in temperature) b 17: Applies (field visits to some a gricultural departments, such as Nine Agricultura, to learn about their survey tools and benefit from some reexperiences about field measurements the obstacles they suffer from) Degree Practical Assigning tasks and repo Practical Assigning tasks and repo Practical Practical Assigning tas				"			-Style of	Reports
14 1 theoretical theoretical: a8: Identify (definitions of devices, uses of leveling devices) practical: a25: Learn (an error in the length of instrument and failure to adjust measurement times) a26: Identify (non-straightness of measuring line and non-straightness of measuring line and non-straightness of measuring line and non-straightness of measuring tool) a27: It records (an error in recording da a difference in the intensity of pulling tightening the measuring instrument, a a difference in the intensity of pulling of tightening the measuring instrument, and Agricultural departments, such as Nine Agriculture, to learn about their survey tools and benefit from some ree experiences about field measurements the obstacles they suffer from) 11. Course Evaluation 11. Course Evaluation 11. Course Evaluation 11. Report 1				achometer)				
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9 Practical field project The fifteenth week 5 5								
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	10			Third and fifth week		2		2

11	Practical short test (1) Quiz	First week	1	1	1
12	Short practical test (2) Quiz	Fourth week		0.5	0.5
13			veek	1	1
14 Live drawings and homework Weeks 6, and 13		The second secon	9, 10, 11, 12	5.5	5.5
15	Final practical test	Final semester test		20	20
	Total		100%	100%	
Req	uired textbooks (curricular book	s, if any)	Book on the Saleh Al-Khaf	-	space and topography.
Main references (sources)		Books related to flat space			
	ommended books and reference rnals, reports)	es (scientific	All sites relate	d to space and topograp	hy

Theoretical subject teacher: Dr. Karam Ali Younus ALtaee <

Practical subject teachers: M.M. Muhammad Samir Idris

Chairman of scientific committee Prof.dr. Weam Yahya Rasheed

Head department of food science Assist. Prof.dr. Moyassar Mohammed Aziz