







Course Description Form

1. Course Name:							
Surveying							
2. Course Code:							
SURV120							
3. Semester / Year:							
Autumn semester/ 202							
4. Description Pre	eparation Date:						
1 / 2 / 2024	. 1 F						
5. Available Atter	ndance Forms:						
	edit Hours (Total) / Number of U	Inita (Total)					
	, ,	Jints (Total)					
1 Theoretical -	+ 3 practical / 2.5 units						
7. Course adminis	strator's name (mention all, if m	ore than one name)					
	am Ali Younus ALtaee						
	ouns@uomosul.edu.iq						
Name: Hamed	Muhammad Ibrahim						
9 Course Object	ativaa						
8. Course Object	cuves	Duration 1.					
theoretical:		Practical:	1-:1:4	4			
1 0	ent's ability to deal with	-Developing the student'	s ability	lo dear with			
scientific and technical means - Developing the student's ability to deal with the - Developing the student's ability to dialogue							
Internet	ant's ability to dear with the	- Developing the student's ability to dialogue and discuss					
	ent's ability to deal with	discuss					
multiple media.	and a definity to dear with						
-	ent's ability to dialogue and						
discuss	<i>y</i> 8						
Developing the stude:	nt's ability to deal						
	economically in the field the job.						
	d Learning Strategies						
Strategy -Interactive lecture, Brainstorming,							
- Dialogue and discussion,							
- Assigning tasks and reporting							
- Assigning group work to reveal leadership skills							
10. Course Structu							
	quired Learning Outcomes	Unit or subject name	Learn	Evaluation			
ee			ing	method			
k			metho d				

1	1 theoretical	theoretical:	theoretical:	theoretic	Evens
1	3 Pract.	a1: A historical overview of survey		theoretic	
	3 Flact.	(the science of surveying is known - w		-Auditor	Homework,
		are the types of surveying, surveying,	Identify surveying devices	-Style of	Reports
		units of measurement)	identify surveying devices	writing o	
		practical:		The	
		•		blackboa	
		a9: Explains (settlement balance)		-Direct	
		a10: Explains (leveling screws)			
		a11: Explains (the pillar) a12: Understand (endoscope)		dialogue	
		a12. Offderstand (endoscope)		style Practical	
				Assignin tasks	
	1 theoretical	theoretical:	Theoretical:	and repo	Evama
2	3 Pract			Theory:	
	JIIaci	a2: Familiar with drawing standards, t	drawing scales practical:	methods	Homework,
		types, and methods of using them practical:	Tools for direct measuring	-Style of	Reports
		b4: apply (use tape)	distances	-	
		b5: Use (the measuring wheel)	distances	writing o	
		,		blackboa	
		b6: Explains (the use of signs)		-Direct	
				dialogue	
				style Practical	
				Assignin tasks	
				and repo	
2	1 theoretical	theoretical:	theoretical:	theoretic	Evama
3	3 Pract	c1: Calculates (methods for estimating	meoreticar.		
	3 Tract	lengths of distances - sources of measu	Direct measurement	methods.	Homework,
		distances, direct measurement methods	distances	-Style of	Reports
		practical	practical:	writing o	
		•	Direct measuring tools	The	
		Explains (the use of signs)	accessories	blackboa	
		a14: Explains (the use of arrows)	accessories	-Direct	
		a15: Explains (the use of arrows)		dialogue	
		a13. Dapianis inc use of wedges		style	
				Practical	
				Assignin	
				tasks	
				and repo	
4	1 theoretical	theoretical:	theoretical:	theoretic	Frams
4	3 Pract	b1: The measurement of distances			Homework,
	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	applied (what are the types of measur		methods	Reports
		chain and tape - mention the accesso		-Style of	Reports
		for direct measurement with the chair	•	writing o	
		tape)		The	
				blackboa	
		practical:		-Direct	
		a16: Concerned with (measuring		dialogue	
		horizontal distance on flat land)		style	
				Practical	
1				Assignin	

_	I				
				tasks	
				and repo	
5	1 theoretical	theoretical:	theoretical:	theoretic	Exams.
	3 Pract	c2: Calculates (measuring horizo	Measuring horizontal		Homework,
		distances on flat land)	distances	methods	Reports
		practical:	practical:	-Style of	Reports
		•	•		
		b7: Contributes to the application of	Measuring horizontal	writing o	
		measuring horizontal distance on inclir	distances on sloping terrai		
		lands (terraces).		blackboa	
				-Direct	
				dialogue	
				style	
				Practical	
				Assignin	
				tasks	
				and repo	
6	1 theoretical	theoretical:	theoretical:	theoretic	
U	3 Pract	c3: Calculate the horizontal distance	Measuring horizontal		
	Jilact		distances on sloping terrai	methods.	Homework,
		sloping terrain (angle method - terr	1 0		Reports
		method - right triangle method)	practical:	-Style of	
		practical:	Measure distances across	writing o	
		b8: Measures (an obstacle that prevents	obstacles	The	
		monitoring but does not prevent		blackboa	
		measurement (ground elevation))		-Direct	
				dialogue	
				style	
				Practical	
				Assignin	
				tasks	
				and repo	
7	1 theoretical	theoretical:	Theoretical:	theoretic	
/	3 Pract	a7: Describes (what are its sour		Auditor	L'Adillo,
	3 Tract	•	•	-Auditoi	Homework,
		number of types, mention its treatment	_	methous.	Reports
		practical:	practical:	-Style of	
		b9: measures (an obstacle that prevents		writing o	
		measurement, does not prevent	obstacles	The	
		monitoring, and cannot be circumvente		blackboa	
		(river, watercourse))		-Direct	
				dialogue	
				style	
				Practical	
				Assignin	
				tasks	
				and repo	
8	1 theoretical	theoretical:	theoretical:	theoretic	Evame
0	3 Pract	A5: Explains (an obstacle that preven			Homework,
	Jiiact			mothede	nomework,
		monitoring but does not prev	obstacles	methods.	Reports
		measurement (ground elevation) -	practical:	-Style of	
		obstacle that prevents measurement	Measure distances across	writing o	
		does not prevent monitoring and can	obstacles	The	
		circumvented (the wide hole, small lak		blackboa	
		the edges of large lakes and ponds))		-Direct	
		practical:		dialogue	
		b10: measures (an obstacle that preven		style	
		· · · · · · · · · · · · · · · · · · ·		-	

		measurement and monitoring and can		Practical	
		circumvented (rock, lake))		Assignin	
		, , , ,		tasks	
				and repo	
9	1 theoretical	theoretical:	theoretica:	theoretic	Exams.
	3 Pract	a6: Explains (an obstacle that preven	Measuring distances acr	-Auditor	Homework
			obstacles	methods	
		monitoring, and cannot be circumver	practical:	-Style of	Reports
		(river, watercourse, trenches) - an obsta		writing o	
		that prevents measurement and prevent		The	
		monitoring (building, protruding rock)		blackboa	
		practical		-Direct	
		a17: Explains (exploring the area)		dialogue	
		a18: Explains (selection of stations)		style	
		b11: applied (marking stations)		Practical	
		b12: Apply to use (measure distances		Assignin	
				tasks	
				and repo	
10	1 theoretical	theoretical:	theoretical:	theoretic	
- 0	3 Pract	a7: Describes (control and investigated	Chain scanning	-Auditor	Homework,
		lines, survey steps, field notebook)	practical:	methods.	
		practical:	Contents of the field	-Style of	1
		a19: Identify (a diagram of the sur	notebook	writing c	
		lines and the name of the site)		The	
		a20: Verify (date of field work car		blackboa	
		out)		-Direct	
		a21: Write (the names of the field work		dialogue	
		team		style	
				Practical	
				Assignin	
				tasks	
				and repo	
11	1 theoretical	theoretical:	theoretical:	theoretic	
	3 Pract	b2: I implement (series mapping meth		-Auditor	Homework,
		- a scientific visit to the Department	-	methods.	Reports
		Roads and Bridges) practical:	Chain scanning methods	-Style of	
		b13: Draw (straight boundaries with		writing o	
		obstacles within the space)		The blackboa	
		b14: Draw (straight boundaries with obstacle inside the space)		-Direct	
		b15: Draw (non-straight boundaries v		dialogue	
		no obstacles within the space)		style	
		b16: Draw (non-straight boundaries wi		Practical	
		an obstacle inside the space)		Assignin	
		an observe inside the space)		tasks	
				and repo	
				10po	
12	1 theoretical	theoretical:	theoretical:	theoretic	Exams.
12	3 Pract	c4: It works (the basis of measurem	Indirect measurement	-Auditor	Homework,
		what are the optical devices)	distances	methods.	Reports
		practical:	practical:	-Style of	roports
		a22: Learn (the board and the triple rule	•	writing o	
)		The	
		a23: Learn (orientation ruler and draw		blackboa	

			,	1	 ,		
		board)				-Direct	
		a24: Rivet (level	ing bubble and scale			dialogue	
		ruler)				style	
						Practical	
						Assignin	
						tasks	
						and repo	
13	1 theoretical	theoretical:		theor	etical:	theoretic	Exams
13	3 Pract	c5: implements	s (measurement ba	Indir		-Auditor	Homework,
		electronic device	`	dista		methods	Reports
		practical:	<i>5)</i>		rical:	-Style of	Reports
		c1: applied (use	tachometer)		ect measuring devi		
			neodolite) is applied.	and t		The	
		c2. The use of (th	reodonic) is applied.	and t	0013	blackboa	
						-Direct	
						dialogue	
						style	
						•	
						Practical Assigning	
						Assignin	
						tasks	
	4.4 4			. •		and repo	_
14	1 theoretical	theoretical:	1 0 1 1		retical:	theoretic	
	3 Pract		definitions of level		ement	-Auditor	Homework,
		devices, uses of l	eveling devices)	•	rical:	methods.	Reports
		practical:			e sources of errors wh	-Style of	
			error in the length of	meas	suring	writing o	
			failure to adjust			The	
		measurement tim	· ·			blackboa	
			non-straightness of			-Direct	
			nd non-straightness of			dialogue	
		measuring tool)				style	
		a27: It records (a	n error in recording da			Practical	
		a difference in th	e intensity of pulling of			Assignin	
		tightening the me	easuring instrument, ar			tasks	
		a difference in te	mperature)			and repo	
15	1 theoretical	theoretical:		theor	retical:	theoretic	Exams,
10	3 Pract	b3: Apply (method	ods for calculating lev	Settle	ement		Homework,
		practical:			practical:		Reports
			ield visits to some s		Field and field visits	-Style of	Toporto
			rtments, such as Nine			writing o	
			earn about their survey			The	
		tools and benefit from some red				blackboa	
			it field measurements			-Direct	
		the obstacles the				dialogue	
		LIE COSMOTOS MO	,			style	
						Practical	
						Assignin	
						tasks	
						and repo	
11	11. Course Evaluation						
11.	Evaluation M		Evaluation Date		Degree		Relative
	Evaluation Methods Evaluation Date				Degree		weight %
	Final report theoretical + theoretical 15 weeks				7 theoretical +		% 13
	•		Pract. 1-15 week				/0 13
	pract. R	cport .	1 Iact. 1-13 Week		6 pract.		

	Short exam (1)	Week (3)		4 theoretical +	% 6
				2 pract.	
	Half exam (theoretical +	Week (9)		10 theoretical +	% 15
	pract.)			5 pract.	
	Short exam (2)	Week (12)		4 theoretical +	% 6
				2 pract.	
	Final exam (practical)	Exam pract.		20	% 20
	Final exam (theoretical)	Exam theoretical		40	% 40
				100	% 100
12.	Learning and Teaching Resource	ces			
Required textbooks (curricular books, if any)			Book on the Saleh Al-Khaf	foundations of plane space ar	nd topography. R
Main references (sources)			Books related to flat space		
Recommended books and references (scientific		All sites related to space and topography			
journals, reports)					

نموذج وصف المقرر

مدرس المادة النظري : د. كرم على يونس الطائي

مترسو المادة العملى : م.م. حامد محمد ابر اهيم

رئيس اللجنة العلمية : أ.د. نبيل محمد امين الامام

رئيس البستنة وهندسة الحدائق : أ.د. اسماء محمد عادل ا